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# D Subminiature Connectors

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## The ITT Cannon

D Subminiature family of connectors has grown to include a wide variety of styles, options and accessories and is often the most economical solution to any interconnect problem. Ideally suited for both commercial/industrial applications and military/aerospace applications, ITT Cannon D Subminiature connectors have found worldwide acceptance in a multitude of applications ranging from office equipment to satellites.

## On the Cover ◀

*Filter D, Combo D<sup>®</sup>, Commercial Micro D (MDSM), Pressfit D, and Standard D*

Our facility is not currently certified by the DLA and this product is not covered by the QPL/QML.

| Contents                                                                                   | Page |
|--------------------------------------------------------------------------------------------|------|
| General Application D Subminiature Connectors                                              |      |
| • Straight PCB Selection Guide . . . . .                                                   | 2    |
| D*NG Pressfit Termination . . . . .                                                        | 4    |
| D*M Solder Termination (Machined) — Standard PC Tails . . . . .                            | 6    |
| ZD* Solder Termination (Stamped) . . . . .                                                 | 8    |
| D* Solder Termination (Machined) — European PC Tails . . . . .                             | 10   |
| D* Wrap Post Termination . . . . .                                                         | 12   |
| • 90° PCB Selection Guide . . . . .                                                        | 14   |
| D*M Solder Termination (Machined) — Standard Footprint .318 ♦ or .283 ♦ ♦ inch . . . . .   | 16   |
| ZED* Solder Termination (Stamped) — Standard Footprint .318 inch . . . . .                 | 18   |
| D* Solder Termination (Machined) — European Footprint 10,2 ♦ or 9,4 ♦ ♦ mm . . . . .       | 20   |
| ZD* Solder Termination (Stamped) — European Footprint 10,2 mm . . . . .                    | 28   |
| • Cable Selection Guide . . . . .                                                          | 30   |
| D Solder Cup Solder Termination (Machined) with Tin Shells . . . . .                       | 32   |
| ZD* Solder Cup Solder Termination (Stamped) with Tin Shells . . . . .                      | 34   |
| D*A Crimp Connectors without Contacts . . . . .                                            | 36   |
| D*W Discrete Wire IDC . . . . .                                                            | 38   |
| Special Application D Subminiature Connectors                                              |      |
| • Combo D <sup>®</sup> Selection Index . . . . .                                           | 42   |
| Combo D <sup>®</sup> PCB Connectors with 75 Ohm Coaxial Contacts (50 Ohm Option) . . . . . | 44   |
| Combo D <sup>®</sup> PCB Connectors with High Power . . . . .                              | 60   |
| Combo D <sup>®</sup> PCB Connectors with (Size 20) Signal Contacts Only . . . . .          | 74   |
| Combo D <sup>®</sup> Cable Solder Cup . . . . .                                            | 78   |
| Combo D <sup>®</sup> Cable Crimp Connectors and Shield Cans . . . . .                      | 80   |
| Loose Contacts and Tooling . . . . .                                                       | 83   |
| • Commercial Micro D Selection Index . . . . .                                             | 96   |
| MDSM Connectors and Tooling . . . . .                                                      | 98   |
| • Filter D Selection Index . . . . .                                                       | 104  |
| Product Performance . . . . .                                                              | 106  |
| D*JK PCB Connectors . . . . .                                                              | 108  |
| D*JT Solder Cup and Combo High Power Connectors . . . . .                                  | 122  |
| High Reliability D Subminiature Connectors                                                 |      |
| • Military/High Reliability Selection Index . . . . .                                      | 130  |
| PCB 90°, Straight, Wrap Post, and Cable Solder Cup . . . . .                               | 132  |
| 24308-Style Cross References and Test Data . . . . .                                       | 142  |
| Military/High Reliability Combo D <sup>®</sup> . . . . .                                   | 146  |
| • SNASA/GSFC & ESA-SCC Cross References . . . . .                                          | 195  |
| Accessories Selection Guide . . . . .                                                      | 198  |
| Backshells . . . . .                                                                       | 200  |
| Locking Hardware . . . . .                                                                 | 208  |
| Miscellaneous . . . . .                                                                    | 214  |
| Reader's Resource Selection Index . . . . .                                                | 219  |
| Dimensional Reference Data . . . . .                                                       | 220  |
| Lease Tooling . . . . .                                                                    | 275  |
| Glossary of Terms . . . . .                                                                | 276  |
| Obsolete Products/Available Products Not Previously Listed . . . . .                       | 282  |
| Part Number Index . . . . .                                                                | 283  |
| Product Safety and Warranty . . . . .                                                      | 297  |

Combo D<sup>®</sup> is a registered trademark of ITT Cannon in the United States.

- ♦ Connector footprint measured from the front shell.
- ♦ ♦ Connector footprint measured from the rear shell.

**D\*NG - Straight Pressfit Termination**

See pages 4-5.

The D\*NG is based upon the specification CECC75-301-802. These connectors provide a low-cost alternative to traditional through hole solder contacts. Utilizing stamped “Eye of the Needle” compliant contact tails per IEC-352-5, the parts are quickly and easily mounted onto PCBs without soldering, crimping or specialized tooling. The socket contact engaging area utilizes a “spoon” shape with four points of interconnection. Hardware options provide flexibility and ensure that the final product fits the electrical requirements of any application.

**Product Features**

Quick and easy press-in installation without specialized tooling  
 “Spoon” socket contact provides improved interface compared to “Tuning Fork”  
 Closed-entry socket for secure blind mating  
 Front-shell only design based on CECC 75-301-802  
 “Eye of the Needle” compliant contact tails  
 Press-in bolt for ground continuity  
 #4-40 UNC and M3 hardware options

**D\*M Straight Solder Termination (Machined) — Standard PC Tails**

See pages 6-7.

D\*M straight PCB connectors, which are designed to be equivalent to MIL-C-24308 (except for finishes) for printed circuit boards and backplanes in demanding applications. Additional contact lengths, hardware and finish options available; consult factory for details.

**Product Features**

7.5 A current capacity  
 Machined contacts  
 2 contact finishes  
 Optional vertical standoffs, screw locks, and boardlocks (4 prongs)  
 UL file number E8572  
 Dimensionally compatible with Combo D®

**ZD\* - Straight Solder Termination (Stamped)**

See pages 8-9.

ZD\* straight connectors are available for applications where price is the primary driver. They are available with or without boardlocks and screw locks.

**Product Features**

Stamped contacts with 5 A current capacity  
 Economical  
 Optional vertical standoffs with optional harpoon style boardlocks or screw locks

**D\* - Straight Solder Termination (Machined) — European PC Tails**

See pages 10-11.

D\* straight connectors are available for high performance uses according to DIN 41652. Available with European length OL contacts.

Select contact finish from 2 performance classes.

**Product Features**

High performance commercial connectors  
 Two contact finish performance classes  
 Optional vertical standoffs, threaded inserts and pushfits/boardlocks  
 OL2 contact length, other lengths available  
 Tin plated contact PC tails (pin & socket)  
 Machined contacts

**D\* - Wrap Post Termination**

See pages 12-13.

D\* straight connectors are available for high performance uses according to DIN 41652. Contacts available in two popular lengths.

**Product Features**

High performance commercial class connectors  
 Two contact lengths for 2 or 3 wraps  
 Machined contacts

## Specifications

|                        |                                  |
|------------------------|----------------------------------|
| Current Rating         | 5 A / 25°C, 3.5 A / 70°C ambient |
| Temperature Rating     | –55°C to 125°C                   |
| Contact Resistance     | 10 mΩ                            |
| Test Voltage           | 1200 Vrms at Sea Level           |
| Ø Plated Through Hole  | 1,09 - 0,94 (.043 - .037)        |
| PC Tail Press-in Force | 100N/contact max.                |
| PC Tail Push-out Force | 30N/contact min.                 |
| PC Board Thickness     | 3,20 - 1,60 (.125 - .062)        |

## Materials and Finishes

| Description | Material                | Finish                                               |
|-------------|-------------------------|------------------------------------------------------|
| Shell       | Steel                   | Tin                                                  |
| Insulator   | Thermoplastic, UL 94V-0 | None (color: black)                                  |
| Contact     | Copper Alloy            | Gold over Nickel (Standard) or Gold over PdNi (-408) |
| Hardware    | Steel/Copper Alloy      | Tin/Zinc                                             |

## Specifications

|                                 |                                        |
|---------------------------------|----------------------------------------|
| Temperature Rating              | –55°C to 125°C                         |
| Current Rating                  | 7.5 A                                  |
| Contact Resistance              | 55 millivolt max at 7.5 A test current |
| Dielectric Withstanding Voltage | 1000 VAC at Sea Level                  |

## Materials and Finishes

| Description | Material                | Finish                                              |
|-------------|-------------------------|-----------------------------------------------------|
| Shell       | Steel                   | Tin                                                 |
| Insulator   | Thermoplastic, UL 94V-0 | None (color: dark green)                            |
| Contact     | Copper Alloy            | Gold over Nickel. Terminating end Tin (Socket only) |
| Hardware    | Steel/Copper Alloy      | Tin/Zinc                                            |

## Specifications

|                                 |                       |
|---------------------------------|-----------------------|
| Temperature Rating              | –55°C to 105°C        |
| Current Rating                  | 5 A                   |
| Contact Resistance              | 15 mΩ                 |
| Dielectric Withstanding Voltage | 1000 VAC at Sea Level |

## Materials and Finishes

| Description | Material                | Finish              |
|-------------|-------------------------|---------------------|
| Shell       | Steel                   | Tin                 |
| Insulator   | Thermoplastic, UL 94V-0 | None (color: black) |
| Contacts    | Copper Alloy            | Gold over Nickel    |
| Hardware    | Steel/Copper Alloy      | Tin/Zinc            |

## Specifications

|                                 |                       |
|---------------------------------|-----------------------|
| Temperature Rating              | –55°C to 125°C        |
| Current Rating                  | 5 A                   |
| Contact Resistance              | 10 mΩ                 |
| Dielectric Withstanding Voltage | 1250 VAC at Sea Level |

## Materials and Finishes

| Description | Material                | Finish                                          |
|-------------|-------------------------|-------------------------------------------------|
| Shell       | Steel                   | Tin                                             |
| Insulator   | Thermoplastic, UL 94V-0 | None (color: dark green)                        |
| Contacts    | Copper Alloy            | Gold over Nickel in mating area, Tin on balance |
| Hardware    | Steel/Copper Alloy      | Tin/Zinc                                        |

## Specifications

|                                 |                       |
|---------------------------------|-----------------------|
| Temperature Rating              | –55°C to 125°C        |
| Current Rating                  | 5 A                   |
| Contact Resistance              | 10 mΩ                 |
| Dielectric Withstanding Voltage | 1250 VAC at Sea Level |

## Materials and Finishes

| Description | Material                | Finish                                         |
|-------------|-------------------------|------------------------------------------------|
| Shell       | Steel                   | Tin                                            |
| Insulator   | Thermoplastic, UL 94V-0 | None (color: dark green)                       |
| Contact     | Socket: Copper Alloy    | Gold over Nickel. Terminating end Tin (Socket) |
| Hardware    | Steel/Copper Alloy      | Tin/Zinc                                       |

## Straight Pressfit Termination

## Plug



## Selection Guide

For Product Features, Specifications, Materials and Finishes, see pages 2-3.

## Part Numbers

| Shell Size | Layout | Through Hole | Clinch Nut # 4-40 UNC | Clinch Nut M3 | Press-In Bolt # 4-40 UNC | Press-In Bolt M3 |
|------------|--------|--------------|-----------------------|---------------|--------------------------|------------------|
| DE         | 9      | DENG9P-P1    | DENG9P-P1             | DENG9P-P1     | DENG9P-P1                | DENG9P-P1        |
| DA         | 15     | DANG15P-P1   | DANG15P-P1            | DANG15P-P1    | DANG15P-P1               | DANG15P-P1       |
| DB         | 25     | DBNG25P-P1   | DBNG25P-P1            | DBNG25P-P1    | DBNG25P-P1               | DBNG25P-P1       |
| DC         | 37     | DCNG37P-P1   | DCNG37P-P1            | DCNG37P-P1    | DCNG37P-P1               | DCNG37P-P1       |
| DD         | 50     | DDNG50P-P1   | DDNG50P-P1            | DDNG50P-P1    | DDNG50P-P1               | DDNG50P-P1       |

Note: For performance class 1 (gold over PdNi finish) add -408. Example: DENG9P-P1-408.

## Reader's Resource

For contact cavity arrangements, see page 224.

For P.C. hole patterns, see page 274.

For panel cutouts, see page 221.



## DD Configuration



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,92 (.666)      | 24,99 (.984)      | 8,36 (.329)       | 12,55 (.494)      |
| DA         | 39,14 (1.541)     | 25,25 (.994)      | 33,32 (1.312)     | 8,36 (.329)       | 12,55 (.494)      |
| DB         | 53,04 (2.088)     | 38,96 (1.534)     | 47,04 (1.852)     | 8,36 (.329)       | 12,55 (.494)      |
| DC         | 69,32 (2.729)     | 55,42 (2.182)     | 63,50 (2.500)     | 8,36 (.329)       | 12,55 (.494)      |
| DD         | 66,93 (2.635)     | 52,81 (2.079)     | 61,11 (2.406)     | 11,07 (.436)      | 15,37 (.605)      |

## Mounting Types



## Straight Pressfit Termination

## Receptacle



## Selection Guide

For Product Features, Specifications, Materials and Finishes, see pages 2-3.

## Part Numbers

| Shell Size | Layout | Through Hole | Clinch Nut<br># 4-40 UNC | Clinch Nut<br>M3 | Press-In Bolt<br># 4-40 UNC | Press-In Bolt<br>M3 |
|------------|--------|--------------|--------------------------|------------------|-----------------------------|---------------------|
| DE         | 9      | DENG9S-P1    | DENG9S-P1                | DENG9S-P1        | DENG9S-P1                   | DENG9S-P1           |
| DA         | 15     | DANG15S-P1   | DANG15S-P1               | DANG15S-P1       | DANG15S-P1                  | DANG15S-P1          |
| DB         | 25     | DBNG25S-P1   | DBNG25S-P1               | DBNG25S-P1       | DBNG25S-P1                  | DBNG25S-P1          |
| DC         | 37     | DCNG37S-P1   | DCNG37S-P1               | DCNG37S-P1       | DCNG37S-P1                  | DCNG37S-P1          |
| DD         | 50     | DDNG50S-P1   | DDNG50S-P1               | DDNG50S-P1       | DDNG50S-P1                  | DDNG50S-P1          |

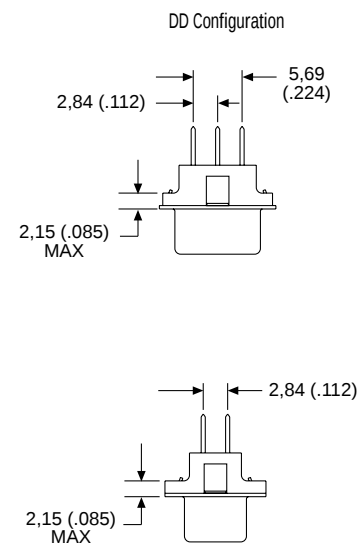
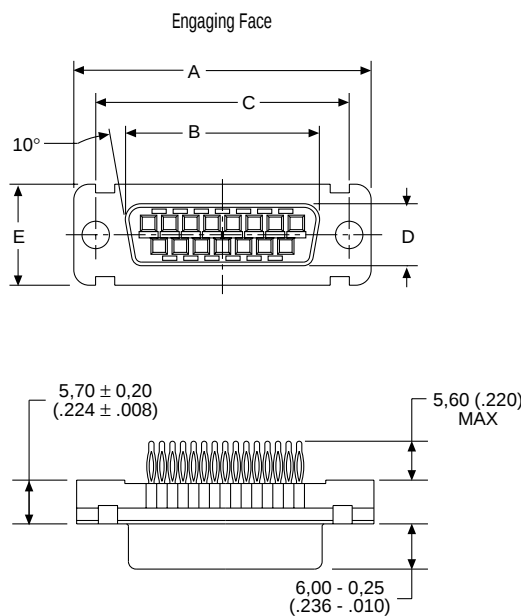
Note: For performance class 1 (gold over PdNi finish) add -408. Example: DENG9S-P1-408.

## Reader's Resource

For contact cavity arrangements, see page 224.

For P.C. hole patterns, see page 274.

For panel cutouts, see page 221.



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,33 (.643)      | 24,99 (.984)      | 7,90 (.311)       | 12,55 (.494)      |
| DA         | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      |
| DB         | 53,04 (2.088)     | 38,38 (1.511)     | 47,04 (1.852)     | 7,90 (.311)       | 12,55 (.494)      |
| DC         | 69,32 (2.729)     | 54,84 (2.159)     | 63,50 (2.500)     | 7,90 (.311)       | 12,55 (.494)      |
| DD         | 66,93 (2.635)     | 52,42 (2.064)     | 61,11 (2.406)     | 10,74 (.423)      | 15,37 (.605)      |

## Mounting Types



Through Hole



Clinch Nut



Press-In Bolt

## Straight Solder Termination (Machined) — Standard PC Tails

## Plug



## Selection Guide

For Product Features, Specifications,  
Materials and Finishes, see pages 2-3.

## Part Numbers

| Shell Size | Layout | Standoff    | Standoff & Boardlock | Standoff, Boardlock & Screw Lock |
|------------|--------|-------------|----------------------|----------------------------------|
| DE         | 9      | DEMV9PNK87  | DEMZ9PNK87           | DEMN9PNK87                       |
| DA         | 15     | DAMV15PNK87 | DAMZ15PNK87          | DAMN15PNK87                      |
| DB         | 25     | DBMV25PNK87 | DBMZ25PNK87          | DBMN25PNK87                      |
| DC         | 37     | DCMV37PNK87 | DCMZ37PNK87          | DCMN37PNK87                      |
| DD         | 50     | DDMV50PNK87 | DDMZ50PNK87          | DDMN50PNK87                      |

Note: For contacts with 30 microinches gold substitute K127 for K87. Example: DEMN9PNK127

## Reader's Resource

For contact cavity arrangements,  
see page 224.  
For P.C. hole patterns, see page 274.  
For panel cutouts, see page 221.  
For hardware views (Standard), see page 226.



Hardware removed for clarity



Hardware removed for clarity

## Dimensions

| Shell Size | A<br>±0.38 (.015) | B<br>±0.13 (.005) | C<br>±0.13 (.005) | D<br>±0.13 (.005) | E<br>±0.38 (.015) | F<br>±0.25 (.010) | W<br>±0.368 (.0145) | W<br>±0.41 (.016) | L<br>±0.25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|-------------------|
| DE         | 30.81 (1.213)     | 16.92 (.666)      | 24.99 (.984)      | 8.36 (.329)       | 12.55 (.494)      | 10.72 (.422)      | 6.693 (.2635)       | —                 | 0.76 (.030)       |
| DA         | 39.14 (1.541)     | 25.25 (.994)      | 33.32 (1.312)     | 8.36 (.329)       | 12.55 (.494)      | 10.72 (.422)      | 6.693 (.2635)       | —                 | 0.76 (.030)       |
| DB         | 53.04 (2.088)     | 38.96 (1.534)     | 47.04 (1.852)     | 8.36 (.329)       | 12.55 (.494)      | 10.82 (.426)      | —                   | 6.84 (.269)       | 0.99 (.039)       |
| DC         | 69.32 (2.729)     | 55.42 (2.182)     | 63.50 (2.500)     | 8.36 (.329)       | 12.55 (.494)      | 10.82 (.426)      | —                   | 6.84 (.269)       | 0.99 (.039)       |
| DD         | 66.93 (2.635)     | 52.81 (2.079)     | 61.11 (2.406)     | 11.07 (.436)      | 15.37 (.605)      | 10.82 (.426)      | —                   | 6.84 (.269)       | 0.99 (.039)       |

Straight Solder Termination (Machined) — Standard PC Tails

Receptacle



Part Numbers

| Shell Size | Layout | Standoff     | Standoff & Boardlock | Standoff, Boardlock & Screw Lock |
|------------|--------|--------------|----------------------|----------------------------------|
| DE         | 9      | DEMV9SNA197  | DEMZ9SNA197          | DEMN9SNA197                      |
| DA         | 15     | DAMV15SNA197 | DAMZ15SNA197         | DAMN15SNA197                     |
| DB         | 25     | DBMV25SNA197 | DBMZ25SNA197         | DBMN25SNA197                     |
| DC         | 37     | DCMV37SNA197 | DCMZ37SNA197         | DCMN37SNA197                     |
| DD         | 50     | DDMV50SNA197 | DDMZ50SNA197         | DDMN50SNA197                     |

Selection Guide

For Product Features, Specifications, Materials and Finishes, see pages 2-3.

Note: For contacts with 30 microinches gold substitute K126 for A197. Example: DEMN9SNK126

Reader's Resource

For contact cavity arrangements, see page 224.  
For P.C. hole patterns, see page 274.  
For panel cutouts, see page 221.  
For hardware views (Standard), see page 226.



Hardware removed for clarity



Hardware removed for clarity

Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,33 (.643)      | 24,99 (.984)      | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,38 (1.511)     | 47,04 (1.852)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DC         | 69,32 (2.729)     | 54,84 (2.159)     | 63,50 (2.500)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DD         | 66,93 (2.635)     | 52,42 (2.064)     | 61,11 (2.406)     | 10,74 (.423)      | 15,37 (.605)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |

Straight Solder Termination (Stamped)

Plug



Part Numbers

| Shell Size | Layout | Through Hole | Standoff With Boardlock |
|------------|--------|--------------|-------------------------|
| DE         | 9      | ZDE9P-OL2    | ZDEE9P-OL2-146          |
| DA         | 15     | ZDA15P-OL2   | ZDAE15P-OL2-146         |
| DB         | 25     | ZDB25P-OL2   | ZDBE25P-OL2-146         |
| DC         | 37     | ZDC37P-OL2   | ZDCE37P-OL2-146         |
| DD         | 50     | ZDD50P-OL2   | ZDDE50P-OL2-146         |

Selection Guide

For Product Features, Specifications, Materials and Finishes, see pages 2-3.

Reader's Resource

For contact cavity arrangements, see page 224.  
For P.C. hole patterns, see page 274.  
For panel cutouts, see page 221.  
For hardware views (Standard), see page 226.



Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,368 (.0145) | W<br>±0,41 (.016) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,92 (.666)      | 24,99 (.984)      | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 |
| DA         | 39,14 (1.541)     | 25,25 (.994)      | 33,32 (1.312)     | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 |
| DB         | 53,04 (2.088)     | 38,96 (1.534)     | 47,04 (1.852)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       |
| DC         | 69,32 (2.729)     | 55,42 (2.182)     | 63,50 (2.500)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       |
| DD         | 66,93 (2.635)     | 52,81 (2.079)     | 61,11 (2.406)     | 11,07 (.436)      | 15,37 (.605)      | 10,82 (.426)      | —                   | 6,84 (.269)       |

## Straight Solder Termination (Stamped)

## Receptacle



## Part Numbers

| Shell Size | Layout | Through Hole | Standoff With Boardlock |
|------------|--------|--------------|-------------------------|
| DE         | 9      | ZDE9S-OL2    | ZDEE9S-OL2-146          |
| DA         | 15     | ZDA15S-OL2   | ZDAE15S-OL2-146         |
| DB         | 25     | ZDB25S-OL2   | ZDBE25S-OL2-146         |
| DC         | 37     | ZDC37S-OL2   | ZDCE37S-OL2-146         |
| DD         | 50     | ZDD50S-OL2   | ZDE50S-OL2-146          |

## Selection Guide

For Product Features, Specifications,  
Materials and Finishes, see pages 2-3.

## Reader's Resource

For contact cavity arrangements,  
see page 224.  
For P.C. hole patterns, see page 274.  
For panel cutouts, see page 221.  
For hardware views (Standard), see page 226.

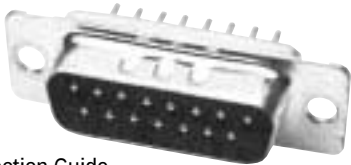


## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,33 (.643)      | 24,99 (.984)      | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       |
| DA         | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       |
| DB         | 53,04 (2.088)     | 38,38 (1.511)     | 47,04 (1.852)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       |
| DC         | 69,32 (2.729)     | 54,84 (2.159)     | 63,50 (2.500)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       |
| DD         | 66,93 (2.635)     | 52,42 (2.064)     | 61,11 (2.406)     | 10,74 (.423)      | 15,37 (.605)      | 10,90 (.429)      | 6,94 (.273)       |

## Straight Solder Termination (Machined) — European PC Tails

## Plug



## Selection Guide

For Product Features, Specifications, Materials and Finishes, see pages 2-3.

## Reader's Resource

For contact cavity arrangements, see page 224.  
For P.C. hole patterns, see page 274.  
For panel cutouts, see page 221.  
For hardware views (European), see page 227.

## Part Numbers

| Shell Size | Layout | Through Hole  | Standoff #4-40 UNC With Pushfit/Boardlock | Standoff M3 With Pushfit/Boardlock |
|------------|--------|---------------|-------------------------------------------|------------------------------------|
| DE         | 9      | DE9P-0L2-K87  | DEE9P-0L2-K87-146                         | DEX9P-0L2-K87-146                  |
| DA         | 15     | DA15P-0L2-K87 | DAE15P-0L2-K87-146                        | DAX15P-0L2-K87-146                 |
| DB         | 25     | DB25P-0L2-K87 | DBE25P-0L2-K87-146                        | DBX25P-0L2-K87-146                 |
| DC         | 37     | DC37P-0L2-K87 | DCE37P-0L2-K87-146                        | DCX37P-0L2-K87-146                 |
| DD         | 50     | DD50P-0L2-K87 | DDE50P-0L2-K87-146                        | DDX50P-0L2-K87-146                 |

Note: For performance class 2 add -A191. Example DA15P-0L2-A191-K87.

| PC Tail Modifier | X<br>±0,30 (.012) | Y<br>±0,30 (.012) |
|------------------|-------------------|-------------------|
| OL2              | 5,20 (.205)       | 10,20 (.401)      |
| OL4              | 6,75 (.266)       | 11,80 (.465)      |



## DD Configuration



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,368 (.0145) | W<br>±0,41 (.016) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,92 (.666)      | 24,99 (.984)      | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 25,25 (.994)      | 33,32 (1.312)     | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,96 (1.534)     | 47,04 (1.852)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       |
| DC         | 69,32 (2.729)     | 55,42 (2.182)     | 63,50 (2.500)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       |
| DD         | 66,93 (2.635)     | 52,81 (2.079)     | 61,11 (2.406)     | 11,07 (.436)      | 15,37 (.605)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       |

## Straight Solder Termination (Machined) — European PC Tails

## Receptacle



## Part Numbers

| Shell Size | Layout | Through Hole   | Standoff #4-40 UNC With Pushfit/Boardlock | Standoff M3 With Pushfit/Boardlock |
|------------|--------|----------------|-------------------------------------------|------------------------------------|
| DE         | 9      | DE9S-0L2-A197  | DEE9S-0L2-A197-146                        | DEX9S-0L2-A197-146                 |
| DA         | 15     | DA15S-0L2-A197 | DAE15S-0L2-A197-146                       | DAX15S-0L2-A197-146                |
| DB         | 25     | DB25S-0L2-A197 | DBE25S-0L2-A197-146                       | DBX25S-0L2-A197-146                |
| DC         | 37     | DC37S-0L2-A197 | DCE37S-0L2-A197-146                       | DCX37S-0L2-A197-146                |
| DD         | 50     | DD50S-0L2-A197 | DDE50S-0L2-A197-146                       | DDX50S-0L2-A197-146                |

## Selection Guide

For Product Features, Specifications, Materials and Finishes, see pages 2-3.

Note: For performance class 2 add -A191. Example DA15S-0L2-A191-A197

## Reader's Resource

For contact cavity arrangements, see page 224.  
For P.C. hole patterns, see page 274.  
For panel cutouts, see page 221.  
For hardware views (European), see page 227.

| PC Tail Modifier | X<br>±0,30 (.012) | Y<br>±0,30 (.012) |
|------------------|-------------------|-------------------|
| OL2              | 5,20 (.205)       | 10,20 (.401)      |
| OL4              | 6,75 (.266)       | 11,80 (.465)      |



## DD Configuration



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,33 (.643)      | 24,99 (.984)      | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,38 (1.511)     | 47,04 (1.852)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DC         | 69,32 (2.729)     | 54,84 (2.159)     | 63,50 (2.500)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DD         | 66,93 (2.635)     | 52,42 (2.064)     | 61,11 (2.406)     | 10,74 (.423)      | 15,37 (.605)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |

## Wrap Post Termination

## Plug



## Part Numbers

| Shell Size | Layout | Through Hole    |
|------------|--------|-----------------|
| DE         | 9      | DE9P-F179A-K87  |
| DA         | 15     | DA15P-F179A-K87 |
| DB         | 25     | DB25P-F179A-K87 |
| DC         | 37     | DC37P-F179A-K87 |
| DD         | 50     | DD50P-F179A-K87 |

## Selection Guide

For Product Features, Specifications, Materials and Finishes, see pages 2-3.

| Modification Code | Number of Wraps | X max.       | Y $\pm 0,89 (.035)$ |
|-------------------|-----------------|--------------|---------------------|
| F179              | 2               | 10,21 (.402) | 15,20 (.598)        |
| F179A             | 3               | 13,61 (.536) | 18,60 (.732)        |

## Reader's Resource

For contact cavity arrangements, see page 224.

For P.C. hole patterns, see page 274.

For panel cutouts, see page 221.

For hardware views (Standard), see page 226.



## Dimensions

| Shell Size | A $\pm 0,38 (.015)$ | B $\pm 0,13 (.005)$ | C $\pm 0,13 (.005)$ | D $\pm 0,13 (.005)$ | E $\pm 0,38 (.015)$ | F $\pm 0,25 (.010)$ | W $\pm 0,368 (.0145)$ | W $\pm 0,41 (.016)$ | L $\pm 0,25 (.010)$ |
|------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-----------------------|---------------------|---------------------|
| DE         | 30,81 (1.213)       | 16,92 (.666)        | 24,99 (.984)        | 8,36 (.329)         | 12,55 (.494)        | 10,72 (.422)        | 6,693 (.2635)         | —                   | 0,76 (.030)         |
| DA         | 39,14 (1.541)       | 25,25 (.994)        | 33,32 (1.312)       | 8,36 (.329)         | 12,55 (.494)        | 10,72 (.422)        | 6,693 (.2635)         | —                   | 0,76 (.030)         |
| DB         | 53,04 (2.088)       | 38,96 (1.534)       | 47,04 (1.852)       | 8,36 (.329)         | 12,55 (.494)        | 10,82 (.426)        | —                     | 6,64 (.269)         | 0,99 (.039)         |
| DC         | 69,32 (2.729)       | 55,42 (2.182)       | 63,50 (2.500)       | 8,36 (.329)         | 12,55 (.494)        | 10,82 (.426)        | —                     | 6,64 (.269)         | 0,99 (.039)         |
| DD         | 66,93 (2.635)       | 52,81 (2.079)       | 61,11 (2.406)       | 11,07 (.436)        | 15,37 (.605)        | 10,82 (.426)        | —                     | 6,64 (.269)         | 0,99 (.039)         |

## Wrap Post Termination

## Receptacle



## Part Numbers

| Shell Size | Layout | Through Hole     |
|------------|--------|------------------|
| DE         | 9      | DE9S-F179A-A197  |
| DA         | 15     | DA15S-F179A-A197 |
| DB         | 25     | DB25S-F179A-A197 |
| DC         | 37     | DC37S-F179A-A197 |
| DD         | 50     | DD50S-F179A-A197 |

## Selection Guide

For Product Features, Specifications, Materials and Finishes, see pages 2-3.

## Reader's Resource

For contact cavity arrangements, see page 224.

For P.C. hole patterns, see page 274.

For panel cutouts, see page 221.

For hardware views (Standard), see page 226.

| Modification Code | Number of Wraps | X max.       | Y $\pm 0,89 (.035)$ |
|-------------------|-----------------|--------------|---------------------|
| F179              | 2               | 10,21 (.402) | 15,20 (.598)        |
| F179A             | 3               | 13,61 (.536) | 18,60 (.732)        |



## DD Configuration



## Dimensions

| Shell Size | A $\pm 0,13 (.005)$ | B $\pm 0,13 (.005)$ | C $\pm 0,13 (.005)$ | D $\pm 0,13 (.005)$ | E $\pm 0,38 (.015)$ | F $\pm 0,25 (.010)$ | W $\pm 0,38 (.015)$ | L $\pm 0,25 (.010)$ |
|------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| DE         | 30,81 (1.213)       | 16,33 (.643)        | 24,99 (.984)        | 7,90 (.311)         | 12,55 (.494)        | 10,90 (.429)        | 6,94 (.273)         | 0,76 (.030)         |
| DA         | 39,14 (1.541)       | 24,66 (.971)        | 33,32 (1.312)       | 7,90 (.311)         | 12,55 (.494)        | 10,90 (.429)        | 6,94 (.273)         | 0,76 (.030)         |
| DB         | 53,04 (2.088)       | 38,38 (1.511)       | 47,04 (1.852)       | 7,90 (.311)         | 12,55 (.494)        | 10,90 (.429)        | 6,94 (.273)         | 0,76 (.030)         |
| DC         | 69,32 (2.729)       | 54,84 (2.159)       | 63,50 (2.500)       | 7,90 (.311)         | 12,55 (.494)        | 10,90 (.429)        | 6,94 (.273)         | 0,76 (.030)         |
| DD         | 66,93 (2.635)       | 52,42 (2.064)       | 61,11 (2.406)       | 10,74 (.423)        | 15,37 (.605)        | 10,90 (.429)        | 6,94 (.273)         | 0,76 (.030)         |

**D\*M — 90° Solder Termination (Machined) — Standard Footprint .318♦ or .283 inch♦♦**

See pages 16-17.

D\*M 90° PCB connectors, designed to be comparable to MIL-C-24308 (except for finishes), for use with printed circuit boards in demanding applications. Additional contact lengths, hardware and finish options available; consult factory for details.

**Product Features**

7.5 A current capacity  
 Machined contacts  
 Two contact finishes  
 Metal bracket with threaded insert standard  
 Optional screw locks and boardlocks  
 UL file number E8572  
 Dimensionally compatible with Combo D®

**ZED\* — 90° Solder Termination (Stamped) — Standard Footprint .318 inch♦**

See pages 18-19.

ZED\* 90° connectors are available for applications where price is the primary driver. They are available with integrated plastic brackets with Standard footprints.

**Product Features**

Stamped contacts with 5 A current capacity  
 Economical  
 Plastic bracket with integrated boardlocks and grounding strap  
 Optional screw locks

**D\* — 90° Solder Termination (Machined) — European Footprint 10,2♦ or 9,4 mm♦♦**

See pages 20-27.

D\* 90° connectors are available for high performance uses according to DIN 41652. Available with European footprint 1AON contacts, plastic and metal brackets, #4-40 or M3 threads and stamped pushfits/boardlocks. Contact finish available in 2 performance classes.

**Product Features**

High performance commercial class connectors  
 Two contact performance classes  
 Optional metal and plastic brackets, threaded standoffs, clinch nuts, and stamped pushfits/boardlocks  
 Tin plated contact PC tails (pin & socket)

**ZD\* — 90° Solder Termination (Stamped) — European Footprint 10,2 mm♦**

See pages 28-29.

ZD\* 90° connectors are available for applications where price is the primary driver. They are available with integrated plastic brackets with European footprints.

**Product Features**

Stamped contacts with 5 A current capacity  
 Economical  
 Plastic bracket with integrated boardlocks and grounding strap  
 Optional screw locks

- ♦ Connector footprint measured from the front shell.  
 ♦♦ Connector footprint measured from the rear shell.

**Specifications**

|                                 |                                         |
|---------------------------------|-----------------------------------------|
| Temperature Rating              | –55°C to 125°C                          |
| Current Rating                  | 7.5 A                                   |
| Contact Resistance              | 55 millivolt max. at 7.5 A test current |
| Dielectric Withstanding Voltage | 1000 VAC at Sea Level                   |

**Materials and Finishes**

| Description                  | Material                | Finish                                          |
|------------------------------|-------------------------|-------------------------------------------------|
| Shell                        | Steel                   | Tin                                             |
| Insulator                    | Thermoplastic, UL 94V-0 | None (Color: dark green)                        |
| Pin Contact                  | Copper Alloy            | Gold over Nickel                                |
| Socket Contact               | Copper Alloy            | Gold over Nickel in mating area, Tin on balance |
| Hardware (except Boardlocks) | Steel                   | Tin                                             |
| Boardlocks                   | Copper Alloy            | Tin                                             |

**Specifications**

|                                 |                       |
|---------------------------------|-----------------------|
| Temperature Rating              | –55°C to 105°C        |
| Current Rating                  | 5 A                   |
| Contact Resistance              | 15 mΩ                 |
| Dielectric Withstanding Voltage | 1000 VAC at Sea Level |

**Materials and Finishes**

| Description | Material                | Finish                                          |
|-------------|-------------------------|-------------------------------------------------|
| Shell       | Steel                   | Tin                                             |
| Insulator   | Thermoplastic, UL 94V-0 | None                                            |
| Contacts    | Copper Alloy            | Gold over Nickel in mating area, Tin on balance |

**Specifications**

|                                 |                       |
|---------------------------------|-----------------------|
| Temperature Rating              | –55°C to +125°C       |
| Current Rating                  | 5 A                   |
| Contact Resistance              | 10 mΩ                 |
| Dielectric Withstanding Voltage | 1250 VAC at Sea Level |

**Materials and Finishes**

| Description | Material                | Finish                                          |
|-------------|-------------------------|-------------------------------------------------|
| Shell       | Steel                   | Tin                                             |
| Insulator   | Thermoplastic, UL 94V-0 | None (Color: dark green)                        |
| Contacts    | Copper Alloy            | Gold over Nickel in mating area, Tin on balance |
| Hardware    | Steel or Plastic        | Tin or None                                     |
| Boardlocks  | Copper Alloy            | Tin                                             |

**Specifications**

|                                 |                       |
|---------------------------------|-----------------------|
| Temperature Rating              | –55°C to 105°C        |
| Current Rating                  | 5 A                   |
| Contact Resistance              | 15 mΩ                 |
| Dielectric Withstanding Voltage | 1000 VAC at Sea Level |

**Materials and Finishes**

| Description | Material                | Finish                                          |
|-------------|-------------------------|-------------------------------------------------|
| Shell       | Steel                   | Tin                                             |
| Insulator   | Thermoplastic, UL 94V-0 | None                                            |
| Contacts    | Copper Alloy            | Gold over Nickel in mating area, Tin on balance |

## 90° Solder Termination (Machined) — Standard Footprint .318♦ or .283 inch♦♦

## Plug



## Selection Guide

For Product Features, Specifications, Materials and Finishes, see pages 14-15.

## Part Numbers

| Shell Size | Layout | Bracket     | Bracket & Boardlock | Bracket & Screw Lock #4-40 UNC | Bracket, Boardlock & Screw Lock #4-40 UNC |
|------------|--------|-------------|---------------------|--------------------------------|-------------------------------------------|
| DE         | 9      | DEMP9PJK87  | DEMCP9PJK87         | DEMD9PJK87                     | DEMG9PJK87                                |
| DA         | 15     | DAMP15PJK87 | DAMC15PJK87         | DAMD15PJK87                    | DAMG15PJK87                               |
| DB         | 25     | DBMP25PJK87 | DBMC25PJK87         | DBMD25PJK87                    | DBMG25PJK87                               |
| DC         | 37     | DCMP37PJK87 | DCMC37PJK87         | DCMD37PJK87                    | DCMG37PJK87                               |
| DD         | 50     | DDMP50PJK87 | DDMC50PJK87         | DDMD50PJK87                    | DDMG50PJK87                               |

Note: For contacts with 30 microinches gold substitute K127 for K87. Example: DAMG15PJK127

## Reader's Resource

For contact cavity arrangements, see page 224.  
 For P.C. hole patterns, see page 272.  
 For panel cutouts, see page 221.  
 For hardware views (Standard), see page 226.  
 For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.



Note: ♥ Dimension varies with alternate bracket configuration. See Reader's Resource page 226.

## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,368 (.0145) | W<br>±0,41 (.016) | L<br>±0,25 (.010) | M<br>±0,25 (.010) | N<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,92 (.666)      | 24,99 (.984)      | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 0,76 (.030)       | 12,34 (.486)      | 8,64 (.340)       |
| DA         | 39,14 (1.541)     | 25,25 (.994)      | 33,32 (1.312)     | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 0,76 (.030)       | 12,34 (.486)      | 8,64 (.340)       |
| DB         | 53,04 (2.088)     | 38,96 (1.534)     | 47,04 (1.852)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       | 12,34 (.486)      | 8,64 (.340)       |
| DC         | 69,32 (2.729)     | 55,42 (2.182)     | 63,50 (2.500)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       | 12,34 (.486)      | 8,64 (.340)       |
| DD         | 66,93 (2.635)     | 52,81 (2.079)     | 61,11 (2.406)     | 11,07 (.436)      | 15,37 (.605)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       | 13,74 (.541)      | 10,06 (.396)      |

- ♦ Connector footprint measured from the front shell.
- ♦♦ Connector footprint measured from the rear shell.

## 90° Solder Termination (Machined) — Standard Footprint .318♦ or .283 inch♦♦

## Receptacle



## Selection Guide

For Product Features, Specifications, Materials and Finishes, see pages 14-15.

## Part Numbers

| Shell Size | Layout | Bracket      | Bracket & Boardlock | Bracket & Screw Lock #4-40 UNC | Bracket, Boardlock & Screw Lock #4-40 UNC |
|------------|--------|--------------|---------------------|--------------------------------|-------------------------------------------|
| DE         | 9      | DEMP9SJA197  | DEMC9SJA197         | DEMD9SJA197                    | DEMG9SJA197                               |
| DA         | 15     | DAMP15SJA197 | DAMC15SJA197        | DAMD15SJA197                   | DAMG15SJA197                              |
| DB         | 25     | DBMP25SJA197 | DBMC25SJA197        | DBMD25SJA197                   | DBMG25SJA197                              |
| DC         | 37     | DCMP37SJA197 | DCMC37SJA197        | DCMD37SJA197                   | DCMG37SJA197                              |
| DD         | 50     | DDMP50SJA197 | DDMC50SJA197        | DDMD50SJA197                   | DDMG50SJA197                              |

Note: For contacts with 30 microinches gold substitute K126 for A197. Example: DAMG15SJ K126

## Reader's Resource

For contact cavity arrangements, see page 224.  
 For P.C. hole patterns, see page 272.  
 For panel cutouts, see page 221.  
 For hardware views (Standard), see page 226.  
 For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.



Note: ♥ Dimension varies with alternate bracket configuration. See Reader's Resource page 226.

## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) | L<br>±0,25 (.010) | M<br>±0,25 (.010) | N<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,33 (.643)      | 24,99 (.984)      | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       | 12,34 (.486)      | 8,64 (.340)       |
| DA         | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       | 12,34 (.486)      | 8,64 (.340)       |
| DB         | 53,04 (2.088)     | 38,38 (1.511)     | 47,04 (1.852)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       | 12,34 (.486)      | 8,64 (.340)       |
| DC         | 69,32 (2.729)     | 54,84 (2.159)     | 63,50 (2.500)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       | 12,34 (.486)      | 8,64 (.340)       |
| DD         | 66,93 (2.635)     | 52,42 (2.064)     | 61,11 (2.406)     | 10,74 (.423)      | 15,37 (.605)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       | 13,74 (.541)      | 10,06 (.396)      |

- ♦ Connector footprint measured from the front shell.
- ♦♦ Connector footprint measured from the rear shell.

90° Solder Termination (Stamped) — Standard Footprint .318 inch

Plug



Selection Guide

For Product Features, Specifications, Materials and Finishes, see pages 14-15.

Reader's Resource

For contact cavity arrangements, see page 224.  
For P.C. hole patterns, see page 272.  
For panel cutouts, see page 221.  
For hardware views (Standard), see page 226.

Part Numbers

| Shell Size | Layout | Plastic Bracket, Integrated Grounding Strap, Boardlock, Threaded Insert #4-40 UNC | Plastic Bracket, Integrated Grounding Strap, Boardlock, Screw Lock #4-40 UNC |
|------------|--------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| DE         | 9      | ZEDEL9PBA                                                                         | ZEDE9PBA                                                                     |
| DA         | 15     | ZEDAL15PBA                                                                        | ZEDA15PBA                                                                    |
| DB         | 25     | ZEDBL25PBA                                                                        | ZEDB25PBA                                                                    |
| DC         | 37     | ZEDCL37PBA                                                                        | ZEDC37PBA                                                                    |

Note: For contacts with 30 microinches of gold add -30. Example: ZEDEL9PBA-30



Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,25 (.010) | C<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|
| DE         | 30,89 (1.216)     | 16,92 (.666)      | 24,99 (.984)      |
| DA         | 39,09 (1.539)     | 25,25 (.994)      | 33,32 (1.312)     |
| DB         | 53,09 (2.090)     | 38,96 (1.534)     | 47,04 (1.852)     |
| DC         | 69,40 (2.732)     | 55,42 (2.182)     | 63,50 (2.500)     |

90° Solder Termination (Stamped) — Standard Footprint .318 inch

Receptacle



Selection Guide

For Product Features, Specifications, Materials and Finishes, see pages 14-15.

Reader's Resource

- For contact cavity arrangements, see page 224.
- For P.C. hole patterns, see page 272.
- For panel cutouts, see page 221.
- For hardware views (Standard), see page 226.

Part Numbers

| Shell Size | Layout | Plastic Bracket,<br>Integrated Grounding<br>Strap, Boardlock,<br>Threaded Insert<br>#4-40 UNC | Plastic Bracket,<br>Integrated Grounding<br>Strap, Boardlock,<br>Screw Lock<br>#4-40 UNC |
|------------|--------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
|            |        |                                                                                               |                                                                                          |
| DE         | 9      | ZEDEL9SBA                                                                                     | ZEDE9SBA                                                                                 |
| DA         | 15     | ZEDAL15SBA                                                                                    | ZEDA15SBA                                                                                |
| DB         | 25     | ZEDBL25SBA                                                                                    | ZEDB25SBA                                                                                |
| DC         | 37     | ZEDCL37SBA                                                                                    | ZEDC37SBA                                                                                |

Note: For contacts with 30 microinches gold add -30. Example: ZEDEL9SBA-30



Dimensions

| Shell Size | A             | B             | C             |
|------------|---------------|---------------|---------------|
|            | ±0,38 (.015)  | ±0,25 (.010)  | ±0,25 (.010)  |
| DE         | 30,89 (1.216) | 16,28 (.641)  | 24,99 (.984)  |
| DA         | 39,09 (1.539) | 24,66 (.971)  | 33,32 (1.312) |
| DB         | 53,09 (2.090) | 38,38 (1.511) | 47,04 (1.852) |
| DC         | 69,40 (2.732) | 54,84 (2.159) | 63,50 (2.500) |

## 90° Solder Termination (Machined) — European Footprint 10,2♦ or 9,4 mm♦♦

Plug



Part Numbers

| Shell Size | Layout | Through Hole   |
|------------|--------|----------------|
| DE         | 9      | DE9P-1AON-K87  |
| DA         | 15     | DA15P-1AON-K87 |
| DB         | 25     | DB25P-1AON-K87 |
| DC         | 37     | DC37P-1AON-K87 |
| DD         | 50     | DD50P-1AON-K87 |

Note: For performance class 2 add -A191. Example: DE9P-1AON-A191-K87

### Selection Guide

For Product Features, Specifications, Materials and Finishes, see pages 14-15.

### Reader's Resource

For contact cavity arrangements, see page 224.  
 For P.C. hole patterns, see page 273.  
 For panel cutouts, see page 221.  
 For hardware views (European), see page 227.



### Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,368 (.0145) | W<br>±0,41 (.016) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,92 (.666)      | 24,99 (.984)      | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 25,25 (.994)      | 33,32 (1.312)     | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,96 (1.534)     | 47,04 (1.852)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       |
| DC         | 69,32 (2.729)     | 55,42 (2.182)     | 63,50 (2.500)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       |
| DD         | 66,93 (2.635)     | 52,81 (2.079)     | 61,11 (2.406)     | 11,07 (.436)      | 15,37 (.605)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       |

- ♦ Connector footprint measured from the front shell.
- ♦♦ Connector footprint measured from the rear shell.

## 90° Solder Termination (Machined) — European Footprint 10,2♦♦ or 9,4 mm♦♦

## Receptacle



## Part Numbers

| Shell Size | Layout | Through Hole    |
|------------|--------|-----------------|
| DE         | 9      | DE9S-1AON-A197  |
| DA         | 15     | DA15S-1AON-A197 |
| DB         | 25     | DB25S-1AON-A197 |
| DC         | 37     | DC37S-1AON-A197 |
| DD         | 50     | DD50S-1AON-A197 |

Note: For performance class 2 add -A191. Example: DE9S-1AON-A191-A197

## Selection Guide

For Product Features, Specifications,  
Materials and Finishes, see pages 14-15.

## Reader's Resource

For contact cavity arrangements,  
see page 224.  
For P.C. hole patterns, see page 273.  
For panel cutouts, see page 221.  
For hardware views (European),  
see page 227.



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,33 (.643)      | 24,99 (.984)      | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,38 (1.511)     | 47,04 (1.852)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DC         | 69,32 (2.729)     | 54,84 (2.159)     | 63,50 (2.500)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DD         | 66,93 (2.635)     | 52,42 (2.064)     | 61,11 (2.406)     | 10,74 (.423)      | 15,37 (.605)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |

- ♦ Connector footprint measured from the front shell.
- ♦♦ Connector footprint measured from the rear shell.

## 90° Solder Termination (Machined) with Metal Bracket — European Footprint 10,2♦ or 9,4♦♦ mm

## Plug



## Part Numbers

| Shell Size | Layout | Bushing with Through Hole | Captive Nut #4-40 UNC | Captive Nut M3 | Post #4-40 UNC |
|------------|--------|---------------------------|-----------------------|----------------|----------------|
| DE         | 9      | DE9P-1AFN-K87             | DE9P-1A7N-K87         | DE9P-1A9N-K87  | DE9P-1A8N-K87  |
| DA         | 15     | DA15P-1AFN-K87            | DA15P-1A7N-K87        | DA15P-1A9N-K87 | DA15P-1A8N-K87 |
| DB         | 25     | DB25P-1AFN-K87            | DB25P-1A7N-K87        | DB25P-1A9N-K87 | DB25P-1A8N-K87 |
| DC         | 37     | DC37P-1AFN-K87            | DC37P-1A7N-K87        | DC37P-1A9N-K87 | DC37P-1A8N-K87 |
| DD         | 50     | DD50P-1AFN-K87            | DD50P-1A7N-K87        | DD50P-1A9N-K87 | DD50P-1A8N-K87 |

## Selection Guide

For Product Features, Specifications, Materials and Finishes, see pages 14-15.

Notes: For pushfit/boardlock option add -146. Example: DE9P-1AFN-K87-146  
For performance class 2 add -A191. Example: DE9P-1AFN-A191-K87

## Reader's Resource

For contact cavity arrangements, see page 224.  
For P.C. hole patterns, see page 273.  
For panel cutouts, see page 221.  
For hardware views (European), see page 227.



## DD Configuration



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,368 (.0145) | W<br>±0,41 (.016) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,92 (.666)      | 24,99 (.984)      | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 25,25 (.994)      | 33,32 (1.312)     | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,96 (1.534)     | 47,04 (1.852)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       |
| DC         | 69,32 (2.729)     | 55,42 (2.182)     | 63,50 (2.500)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       |
| DD         | 66,93 (2.635)     | 52,81 (2.079)     | 61,11 (2.406)     | 11,07 (.436)      | 15,37 (.605)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       |

- ♦ Connector footprint measured from the front shell.
- ♦♦ Connector footprint measured from the rear shell.

## 90° Solder Termination (Machined) with Metal Bracket — European Footprint 10,2♦ or 9,4♦♦ mm

### Receptacle



### Selection Guide

For Product Features, Specifications, Materials and Finishes, see pages 14-15.

### Reader's Resource

For contact cavity arrangements, see page 224.  
For P.C. hole patterns, see page 273.  
For panel cutouts, see page 221.  
For hardware views (European), see page 227.

### Part Numbers

| Shell Size | Layout | Bushing with Through Hole | Captive Nut #4-40 UNC | Captive Nut M3  | Post #4-40 UNC  |
|------------|--------|---------------------------|-----------------------|-----------------|-----------------|
| DE         | 9      | DE9S-1AFN-A197            | DE9S-1A7N-A197        | DE9S-1A9N-A197  | DE9S-1A8N-A197  |
| DA         | 15     | DA15S-1AFN-A197           | DA15S-1A7N-A197       | DA15S-1A9N-A197 | DA15S-1A8N-A197 |
| DB         | 25     | DB25S-1AFN-A197           | DB25S-1A7N-A197       | DB25S-1A9N-A197 | DB25S-1A8N-A197 |
| DC         | 37     | DC37S-1AFN-A197           | DC37S-1A7N-A197       | DC37S-1A9N-A197 | DC37S-1A8N-A197 |
| DD         | 50     | DD50S-1AFN-A197           | DD50S-1A7N-A197       | DD50S-1A9N-A197 | DD50S-1A8N-A197 |

Notes: For pushfit/boardlock option add -146. Example: DE9S-1AFN-A197-146  
For performance class 2 add -A191. Example: DE9S-1AFN-A191-A197

Engaging Face



DD Configuration



### Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,33 (.643)      | 24,99 (.984)      | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,38 (1.511)     | 47,04 (1.852)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DC         | 69,32 (2.729)     | 54,84 (2.159)     | 63,50 (2.500)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DD         | 66,93 (2.635)     | 52,42 (2.064)     | 61,11 (2.406)     | 10,74 (.423)      | 15,37 (.605)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |

- ♦ Connector footprint measured from the front shell.
- ♦♦ Connector footprint measured from the rear shell.

## 90° Solder Termination (Machined) with Plastic Bracket and Grounding Strap — European Footprint 10,2♦ or 9,4 mm♦♦

## Plug



## Part Numbers

| Shell Size | Layout | Through Hole   | Captive Nut<br>#4-40 UNC | Captive Nut<br>M3 | Post<br>#4-40 UNC |
|------------|--------|----------------|--------------------------|-------------------|-------------------|
| DE         | 9      | DE9P-1ADN-K87  | DE9P-1AWN-K87            | DE9P-1AVN-K87     | DE9P-1AJN-K87     |
| DA         | 15     | DA15P-1ADN-K87 | DA15P-1AWN-K87           | DA15P-1AVN-K87    | DA15P-1AJN-K87    |
| DB         | 25     | DB25P-1ADN-K87 | DB25P-1AWN-K87           | DB25P-1AVN-K87    | DB25P-1AJN-K87    |
| DC         | 37     | DC37P-1ADN-K87 | DC37P-1AWN-K87           | DC37P-1AVN-K87    | DC37P-1AJN-K87    |
| DD         | 50     | DD50P-1ADN-K87 | DD50P-1AWN-K87           | DD50P-1AVN-K87    | DD50P-1AJN-K87    |

Notes: For pushfit/boardlock option add -146. Example: DE9P-1ADN-K87-146

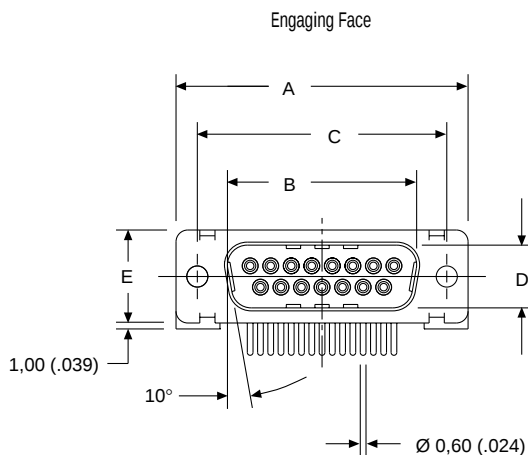
For performance class 2 add -A191. Example: DE9P-1ADN-A191-K87

## Selection Guide

For Product Features, Specifications,  
Materials and Finishes, see pages 14-15.

## Reader's Resource

For contact cavity arrangements,  
see page 224.  
For P.C. hole patterns, see page 273.  
For panel cutouts, see page 221.  
For hardware views (European),  
see page 227.



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,368 (.0145) | W<br>±0,41 (.016) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,92 (.666)      | 24,99 (.984)      | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 25,25 (.994)      | 33,32 (1.312)     | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,96 (1.534)     | 47,04 (1.852)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       |
| DC         | 69,32 (2.729)     | 55,42 (2.182)     | 63,50 (2.500)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       |
| DD         | 66,93 (2.635)     | 52,81 (2.079)     | 61,11 (2.406)     | 11,07 (.436)      | 15,37 (.605)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       |

- ♦ Connector footprint measured from the front shell.  
♦♦ Connector footprint measured from the rear shell.

## 90° Solder Termination (Machined) with Plastic Bracket and Grounding Strap — European Footprint 10,2♦ or 9,4 mm♦♦

## Receptacle



## Part Numbers

| Shell Size | Layout | Through Hole    | Captive Nut<br>#4-40 UNC | Captive Nut<br>M3 | Post<br>#4-40 UNC |
|------------|--------|-----------------|--------------------------|-------------------|-------------------|
| DE         | 9      | DE9S-1ADN-A197  | DE9S-1AWN-A197           | DE9S-1AVN-A197    | DE9S-1AJN-A197    |
| DA         | 15     | DA15S-1ADN-A197 | DA15S-1AWN-A197          | DA15S-1AVN-A197   | DA15S-1AJN-A197   |
| DB         | 25     | DB25S-1ADN-A197 | DB25S-1AWN-A197          | DB25S-1AVN-A197   | DB25S-1AJN-A197   |
| DC         | 37     | DC37S-1ADN-A197 | DC37S-1AWN-A197          | DC37S-1AVN-A197   | DC37S-1AJN-A197   |
| DD         | 50     | DD50S-1ADN-A197 | DD50S-1AWN-A197          | DD50S-1AVN-A197   | DD50S-1AJN-A197   |

Notes: For pushfit/boardlock option add -146. Example: DE9S-1ADN-A197-146

For performance class 2 add -A191. Example: DE9S-1ADN-A191-A197

## Selection Guide

For Product Features, Specifications,  
Materials and Finishes, see pages 14-15.

## Reader's Resource

For contact cavity arrangements,  
see page 224.  
For P.C. hole patterns, see page 273.  
For panel cutouts, see page 221.  
For hardware views (European),  
see page 227.



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,33 (.643)      | 24,99 (.984)      | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,38 (1.511)     | 47,04 (1.852)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DC         | 69,32 (2.729)     | 54,84 (2.159)     | 63,50 (2.500)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DD         | 66,93 (2.635)     | 52,42 (2.064)     | 61,11 (2.406)     | 10,74 (.423)      | 15,37 (.605)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |

- ♦ Connector footprint measured from the front shell.  
♦♦ Connector footprint measured from the rear shell.

## 90° Solder Termination (Machined) with Plastic Bracket — European Footprint 10,2♦ or 9,4 mm♦♦

## Plug



## Part Numbers

| Shell Size | Layout | Through Hole   | Captive Nut<br>#4-40 UNC | Captive Nut<br>M3 | Post<br>#4-40 UNC |
|------------|--------|----------------|--------------------------|-------------------|-------------------|
| DE         | 9      | DE9P-1A5N-K87  | DE9P-1AUN-K87            | DE9P-1ATN-K87     | DE9P-1A6N-K87     |
| DA         | 15     | DA15P-1A5N-K87 | DA15P-1AUN-K87           | DA15P-1ATN-K87    | DA15P-1A6N-K87    |
| DB         | 25     | DB25P-1A5N-K87 | DB25P-1AUN-K87           | DB25P-1ATN-K87    | DB25P-1A6N-K87    |
| DC         | 37     | DC37P-1A5N-K87 | DC37P-1AUN-K87           | DC37P-1ATN-K87    | DC37P-1A6N-K87    |
| DD         | 50     | DD50P-1A5N-K87 | DD50P-1AUN-K87           | DD50P-1ATN-K87    | DD50P-1A6N-K87    |

Notes: For pushfit/boardlock option add -146. Example: DE9P-1A5N-K87-146

For performance class 2 add -A191. Example: DE9P-1A5N-A191-K87

## Selection Guide

For Product Features, Specifications,  
Materials and Finishes, see pages 14-15.

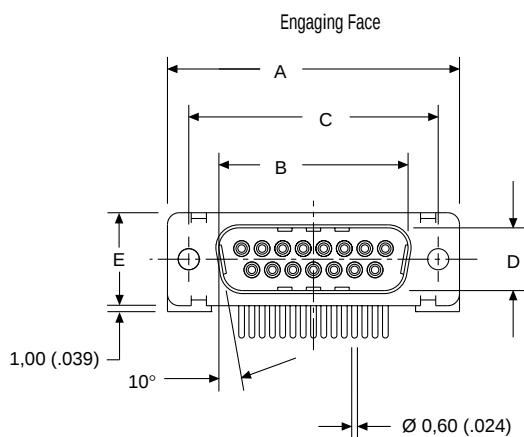
## Reader's Resource

For contact cavity arrangements,  
see page 224.

For P.C. hole patterns, see page 273.

For panel cutouts, see page 221.

For hardware views (European),  
see page 227.



## Dimensions

| Shell Size | A             | B             | C             | D            | E            | F            | W             | W            | L            |
|------------|---------------|---------------|---------------|--------------|--------------|--------------|---------------|--------------|--------------|
|            | ±0,38 (.015)  | ±0,13 (.005)  | ±0,13 (.005)  | ±0,13 (.005) | ±0,38 (.015) | ±0,25 (.010) | ±0,368 (.145) | ±0,41 (.016) | ±0,25 (.010) |
| DE         | 30,81 (1.213) | 16,92 (.666)  | 24,99 (.984)  | 8,36 (.329)  | 12,55 (.494) | 10,72 (.422) | 6,693 (.2635) | —            | 0,76 (.030)  |
| DA         | 39,14 (1.541) | 25,25 (.994)  | 33,32 (1.312) | 8,36 (.329)  | 12,55 (.494) | 10,72 (.422) | 6,693 (.2635) | —            | 0,76 (.030)  |
| DB         | 53,04 (2.088) | 38,96 (1.534) | 47,04 (1.852) | 8,36 (.329)  | 12,55 (.494) | 10,82 (.426) | —             | 6,84 (.269)  | 0,99 (.039)  |
| DC         | 69,32 (2.729) | 55,42 (2.182) | 63,50 (2.500) | 8,36 (.329)  | 12,55 (.494) | 10,82 (.426) | —             | 6,84 (.269)  | 0,99 (.039)  |
| DD         | 66,93 (2.635) | 52,81 (2.079) | 61,11 (2.406) | 11,07 (.436) | 15,37 (.605) | 10,82 (.426) | —             | 6,84 (.269)  | 0,99 (.039)  |

- ♦ Connector footprint measured from the front shell.
- ♦♦ Connector footprint measured from the rear shell.

## 90° Solder Termination (Machined) with Plastic Bracket — European Footprint 10,2♦ or 9,4 mm♦♦

## Receptacle



## Part Numbers

| Shell Size | Layout | Through Hole    | Captive Nut<br>#4-40 UNC | Captive Nut<br>M3 | Post<br>#4-40 UNC |
|------------|--------|-----------------|--------------------------|-------------------|-------------------|
| DE         | 9      | DE9S-1A5N-A197  | DE9S-1AUN-A197           | DE9S-1ATN-A197    | DE9S-1A6N-A197    |
| DA         | 15     | DA15S-1A5N-A197 | DA15S-1AUN-A197          | DA15S-1ATN-A197   | DA15S-1A6N-A197   |
| DB         | 25     | DB25S-1A5N-A197 | DB25S-1AUN-A197          | DB25S-1ATN-A197   | DB25S-1A6N-A197   |
| DC         | 37     | DC37S-1A5N-A197 | DC37S-1AUN-A197          | DC37S-1ATN-A197   | DC37S-1A6N-A197   |
| DD         | 50     | DD50S-1A5N-A197 | DD50S-1AUN-A197          | DD50S-1ATN-A197   | DD50S-1A6N-A197   |

Notes: For push/boardlock option add -146. Example: DE9S-1A5N-A197-146

For performance class 2 add -A191. Example: DE9S-1A5N-A191-A197

## Selection Guide

For Product Features, Specifications,  
Materials and Finishes, see pages 14-15.

## Reader's Resource

For contact cavity arrangements,  
see page 224.  
For P.C. hole patterns, see page 273.  
For panel cutouts, see page 221.  
For hardware views (European),  
see page 227.



## DD Configuration



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,33 (.643)      | 24,99 (.984)      | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,38 (1.511)     | 47,04 (1.852)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DC         | 69,32 (2.729)     | 54,84 (2.159)     | 63,50 (2.500)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DD         | 66,93 (2.635)     | 52,42 (2.064)     | 61,11 (2.406)     | 10,74 (.423)      | 15,37 (.605)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |

- ♦ Connector footprint measured from the front shell.  
♦♦ Connector footprint measured from the rear shell.

90° Solder Termination (Stamped) — European Footprint 10,2 mm

Plug



Selection Guide

For Product Features, Specifications, Materials and Finishes, see pages 14-15.

Part Numbers

| Shell Size | Layout | Plastic Bracket, Integrated Grounding Strap, Boardlock, Threaded Insert #4-40 UNC | Plastic Bracket, Integrated Grounding Strap, Boardlock, Screw Lock #4-40 UNC |
|------------|--------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| DE         | 9      | ZDEL9P-1AKN-146                                                                   | ZDE9P-1AKN-146                                                               |
| DA         | 15     | ZDAL15P-1AKN-146                                                                  | ZDA15P-1AKN-146                                                              |
| DB         | 25     | ZDBL25P-1AKN-146                                                                  | ZDB25P-1AKN-146                                                              |
| DC         | 37     | ZDCL37P-1AKN-146                                                                  | ZDC37P-1AKN-146                                                              |

Note: For contacts with 30 microinches gold add -A191. Example: ZDEL9P-1AKN-A191-146

Reader's Resource

For contact cavity arrangements, see page 224.  
For P.C. hole patterns, see page 273.  
For panel cutouts, see page 221.  
For hardware views (European), see page 227.



Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,25 (.010) | C<br>±0,13 (.005) |
|------------|-------------------|-------------------|-------------------|
| DE         | 30,89 (1.216)     | 16,92 (.666)      | 24,99 (.984)      |
| DA         | 39,09 (1.539)     | 25,25 (.994)      | 33,32 (1.312)     |
| DB         | 53,09 (2.090)     | 38,96 (1.534)     | 47,04 (1.852)     |
| DC         | 69,40 (2.732)     | 55,42 (2.182)     | 63,50 (2.500)     |

## 90° Solder Termination (Stamped) — European Footprint 10,2 mm

## Receptacle



## Selection Guide

For Product Features, Specifications, Materials and Finishes, see pages 14-15.

## Part Numbers

| Shell Size | Layout | Plastic Bracket,<br>Integrated Grounding<br>Strap, Boardlock,<br>Threaded Insert<br>#4-40 UNC | Plastic Bracket,<br>Integrated Grounding<br>Strap, Boardlock,<br>Screw Lock<br>#4-40 UNC |
|------------|--------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| DE         | 9      | ZDEL9S-1AKN-146                                                                               | ZDE9S-1AKN-146                                                                           |
| DA         | 15     | ZDAL15S-1AKN-146                                                                              | ZDA15S-1AKN-146                                                                          |
| DB         | 25     | ZDBL25S-1AKN-146                                                                              | ZDB25S-1AKN-146                                                                          |
| DC         | 37     | ZDCL37S-1AKN-146                                                                              | ZDC37S-1AKN-146                                                                          |

Note: For contacts with -A191 microinches gold add -A191. Example: ZDEL9S-1AKN-A191-146

## Reader's Resource

For contact cavity arrangements, see page 224.  
For P.C. hole patterns, see page 273.  
For panel cutouts, see page 221.  
For hardware views (European), see page 227.



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,25 (.010) | C<br>±0,13 (.005) |
|------------|-------------------|-------------------|-------------------|
| DE         | 30,89 (1.216)     | 16,33 (.643)      | 24,99 (.984)      |
| DA         | 39,09 (1.539)     | 24,66 (.971)      | 33,32 (1.312)     |
| DB         | 53,09 (2.090)     | 38,38 (1.511)     | 47,04 (1.852)     |
| DC         | 69,40 (2.732)     | 54,84 (2.159)     | 63,50 (2.500)     |

**D\* — Solder Cup Termination (Machined) with Tin Shells**

See pages 32-33.

D\* solder cup connectors are used for cable or panel mount wiring applications. Solder cup connectors provide maximum flexibility and performance for applications requiring discrete solder terminations and field repair without termination tooling.

**Product Features**

Machined solder cup termination, 5 A current capacity  
 High performance commercial class connectors  
 Two contact performance classes  
 Optional clinch nuts with #4-40 UNC or M3 threads

**ZD\* — Solder Cup Termination (Stamped) with Tin Shells**

See pages 34-35.

ZD\* solder cup connectors are used for cable or panel mount wiring applications. Solder cup connectors provide maximum flexibility and performance for applications requiring discrete solder terminations.

**Product Features**

Stamped solder cup termination, 5 A current capacity  
 Economical

**D\*A — Crimp Connectors without Contacts**

See pages 36-37.

D\*A crimp contact connectors are designed for reliable, fast cabling. Available in the industry standard D\*A housing, the connectors provide a low-cost, quick cabling alternative compared to soldering.

**Product Features**

Crimp contacts available in reels of 5,000  
 Application tooling:  
 – Hand or automatic  
 – Stripper crimper

**D\*W — Discrete Wire IDC**

See pages 38-41.

The D\*W connector provides insulation displacement connection technology for either solid or stranded wires. With D\*W, speed of cabling is increased significantly over solder cup or crimp solutions. Contacts are easily removable and replaceable. Several specialized accessories (including shield cans, ferrules, and plastic boots) are available to provide a complete product solution.

**Product Features**

Quick harnessing capability with simple hand or semi-automatic tooling  
 Accepts 30 AWG to 20 AWG wire; sizes can be mixed  
 Shield cans insure reliable shielding continuity

**Specifications**

|                                 |                |
|---------------------------------|----------------|
| Temperature Rating              | –55°C to 125°C |
| Current Rating                  | 5 A            |
| Contact Resistance              | 10 mΩ          |
| Dielectric Withstanding Voltage | 1250 VAC       |

**Materials and Finishes**

| Description    | Material                | Finish           |
|----------------|-------------------------|------------------|
| Shell/Hardware | Steel                   | Tin              |
| Insulator      | Thermoplastic, UL 94V-0 | None             |
| Contacts       | Copper Alloy            | Gold over Nickel |

**Specifications**

|                                 |                       |
|---------------------------------|-----------------------|
| Temperature Rating              | –55°C to 105°C        |
| Current Rating                  | 5 A                   |
| Contact Resistance              | 15 mΩ                 |
| Dielectric Withstanding Voltage | 1000 VAC at Sea Level |

**Materials and Finishes**

| Description | Material                | Finish           |
|-------------|-------------------------|------------------|
| Shell       | Steel                   | Tin              |
| Insulator   | Thermoplastic, UL 94V-0 | None             |
| Contacts    | Copper Alloy            | Gold over Nickel |

**Specifications**

|                                 |                      |
|---------------------------------|----------------------|
| Temperature Rating              | –55°C to 105°C       |
| Current Rating                  | 5 A (20 AWG)         |
| Contact Resistance              | 15 mΩ                |
| Dielectric Withstanding Voltage | 500 VAC at Sea Level |

**Materials and Finishes**

| Description    | Material                | Finish           |
|----------------|-------------------------|------------------|
| Shell/Hardware | Steel                   | Tin              |
| Insulator      | Thermoplastic, UL 94V-0 | None             |
| Contacts       | Copper Alloy            | Gold over Nickel |

**Specifications**

|                                 |                                                                                                    |
|---------------------------------|----------------------------------------------------------------------------------------------------|
| Temperature Rating              | –55°C to 125°C                                                                                     |
| Current Rating                  | 3 A (20 AWG)<br>2 A (22 AWG)<br>1,4 A (24 AWG)<br>1,2 A (26 AWG)<br>1 A (28 AWG)<br>0,8 A (30 AWG) |
| Contact Resistance              | 15 mΩ                                                                                              |
| Dielectric Withstanding Voltage | 1000 VAC at Sea Level                                                                              |

**Materials and Finishes**

| Description    | Material                | Finish                                             |
|----------------|-------------------------|----------------------------------------------------|
| Shell/Hardware | Steel                   | Tin                                                |
| Insulator      | Thermoplastic, UL 94V-0 | None                                               |
| Contacts       | Copper Alloy            | Gold over Nickel in mating area,<br>Tin on balance |

## Solder Cup Termination (Machined) with Tin Shells

## Plug



## Part Numbers

| Shell Size | Layout | Through Hole | Clinch Nut<br>#4-40 UNC | Clinch Nut<br>M3 |
|------------|--------|--------------|-------------------------|------------------|
| DE         | 9      | DE9PK87      | DEE9PK87                | DEX9PK87         |
| DA         | 15     | DA15PK87     | DAE15PK87               | DAX15PK87        |
| DB         | 25     | DB25PK87     | DBE25PK87               | DBX25PK87        |
| DC         | 37     | DC37PK87     | DCE37PK87               | DCX37PK87        |
| DD         | 50     | DD50PK87     | DDE50PK87               | DDX50PK87        |

## Selection Guide

For Product Features, Specifications,  
Materials and Finishes, see pages 30-31.

Note: For performance class 2, add A191. Example: DA15PA191K87.

## Reader's Resource

For contact cavity arrangements,  
see page 224.  
For panel cutouts, see page 221.  
For hardware views (European),  
see page 227.



## DD Configuration



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,368 (.0145) | W<br>±0,41 (.016) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,92 (.666)      | 24,99 (.984)      | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 25,25 (.994)      | 33,32 (1.312)     | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,96 (1.534)     | 47,04 (1.852)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       |
| DC         | 69,32 (2.729)     | 55,42 (2.182)     | 63,50 (2.500)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       |
| DD         | 66,93 (2.635)     | 52,81 (2.079)     | 61,11 (2.406)     | 11,07 (.436)      | 15,37 (.605)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       |

## Solder Cup Termination (Machined) with Tin Shells

## Receptacle



## Part Numbers

| Shell Size | Layout | Through Hole | Clinch Nut<br>#4-40 UNC | Clinch Nut<br>M3 |
|------------|--------|--------------|-------------------------|------------------|
| DE         | 9      | DE9SA197     | DEE9SA197               | DEX9SA197        |
| DA         | 15     | DA15SA197    | DAE15SA197              | DAX15SA197       |
| DB         | 25     | DB25SA197    | DBE25SA197              | DBX25SA197       |
| DC         | 37     | DC37SA197    | DCE37SA197              | DCX37SA197       |
| DD         | 50     | DD50SA197    | DDE50SA197              | DDX50SA197       |

## Selection Guide

For Product Features, Specifications,  
Materials and Finishes, see pages 30-31.

Note: For performance class 2, add A191. Example: DA15SA191A197.

## Reader's Resource

For contact cavity arrangements,  
see page 224.  
For panel cutouts, see page 221.  
For hardware views (European),  
see page 227.



## DD Configuration



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,33 (.643)      | 24,99 (.984)      | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,38 (1.511)     | 47,04 (1.852)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DC         | 69,32 (2.729)     | 54,84 (2.159)     | 63,50 (2.500)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DD         | 66,93 (2.635)     | 52,42 (2.064)     | 61,11 (2.406)     | 10,74 (.423)      | 15,37 (.605)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |

Solder Cup Termination (Stamped) with Tin Shells

Plug

Selection Guide

For Product Features, Specifications,  
Materials and Finishes, see pages 30-31.

Reader's Resource

For contact cavity arrangements,  
see page 224.  
For panel cutouts, see page 221.  
For hardware views (Standard), see page 226.

Part Numbers

| Shell Size | Layout | Through Hole |
|------------|--------|--------------|
| DE         | 9      | ZDE9P        |
| DA         | 15     | ZDA15P       |
| DB         | 25     | ZDB25P       |
| DC         | 37     | ZDC37P       |
| DD         | 50     | ZDD50P       |



DD Configuration



Dimensions

| Shell Size | A             | B             | C             | D            | E            | F            | W              | W            | K              | K            | L            |
|------------|---------------|---------------|---------------|--------------|--------------|--------------|----------------|--------------|----------------|--------------|--------------|
|            | ±0,38 (.015)  | ±0,13 (.005)  | ±0,13 (.005)  | ±0,13 (.005) | ±0,38 (.015) | ±0,25 (.010) | ±0,368 (.0145) | ±0,41 (.016) | ±0,317 (.0125) | ±0,25 (.010) | ±0,25 (.010) |
| DE         | 30,81 (1.213) | 16,92 (.666)  | 24,99 (.984)  | 8,36 (.329)  | 12,55 (.494) | 10,72 (.422) | 6,693 (.2635)  | —            | 1,206 (.0475)  | —            | 0,76 (.030)  |
| DA         | 39,14 (1.541) | 25,25 (.994)  | 33,32 (1.312) | 8,36 (.329)  | 12,55 (.494) | 10,72 (.422) | 6,693 (.2635)  | —            | 1,206 (.0475)  | —            | 0,76 (.030)  |
| DB         | 53,04 (2.088) | 38,96 (1.534) | 47,04 (1.852) | 8,36 (.329)  | 12,55 (.494) | 10,82 (.426) | —              | 6,84 (.269)  | —              | 1,52 (.060)  | 0,99 (.039)  |
| DC         | 69,32 (2.729) | 55,42 (2.182) | 63,50 (2.500) | 8,36 (.329)  | 12,55 (.494) | 10,82 (.426) | —              | 6,84 (.269)  | —              | 1,52 (.060)  | 0,99 (.039)  |
| DD         | 66,93 (2.635) | 52,81 (2.079) | 61,11 (2.406) | 11,07 (.436) | 15,37 (.605) | 10,82 (.426) | —              | 6,84 (.269)  | —              | 1,52 (.060)  | 0,99 (.039)  |

## Solder Cup Termination (Stamped) with Tin Shells

## Receptacle



## Part Numbers

| Shell Size | Layout | Through Hole |
|------------|--------|--------------|
| DE         | 9      | ZDE9S        |
| DA         | 15     | ZDA15S       |
| DB         | 25     | ZDB25S       |
| DC         | 37     | ZDC37S       |
| DD         | 50     | ZDD50S       |

## Selection Guide

For Product Features, Specifications,  
Materials and Finishes, see pages 30-31.

## Reader's Resource

For contact cavity arrangements,  
see page 224.

For panel cutouts, see page 221.

For hardware views (Standard), see page 226.



## DD Configuration



## Dimensions

| Shell Size | A             | B             | C             | D            | E            | F            | W            | K              | L            |
|------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|----------------|--------------|
|            | ±0,38 (.015)  | ±0,13 (.005)  | ±0,13 (.005)  | ±0,13 (.005) | ±0,38 (.015) | ±0,25 (.010) | ±0,38 (.015) | ±0,318 (.0125) | ±0,25 (.010) |
| DE         | 30,81 (1.213) | 16,33 (.643)  | 24,99 (.984)  | 7,90 (.311)  | 12,55 (.494) | 10,90 (.429) | 6,94 (.273)  | 1,206 (.0475)  | 0,76 (.030)  |
| DA         | 39,14 (1.541) | 24,66 (.971)  | 33,32 (1.312) | 7,90 (.311)  | 12,55 (.494) | 10,90 (.429) | 6,94 (.273)  | 1,206 (.0475)  | 0,76 (.030)  |
| DB         | 53,04 (2.088) | 38,38 (1.511) | 47,04 (1.852) | 7,90 (.311)  | 12,55 (.494) | 10,90 (.429) | 6,94 (.273)  | 1,206 (.0475)  | 0,76 (.030)  |
| DC         | 69,32 (2.729) | 54,84 (2.159) | 63,50 (2.500) | 7,90 (.311)  | 12,55 (.494) | 10,90 (.429) | 6,94 (.273)  | 1,206 (.0475)  | 0,76 (.030)  |
| DD         | 66,93 (2.635) | 52,42 (2.064) | 61,11 (2.406) | 10,74 (.423) | 15,37 (.605) | 10,90 (.429) | 6,94 (.273)  | 1,206 (.0475)  | 0,76 (.030)  |

## Crimp Connectors without Contacts

### Plug



### Part Numbers

| Shell Size | Layout | Through Hole |
|------------|--------|--------------|
| DE         | 9      | DEA9PK87FO   |
| DA         | 15     | DAA15PK87FO  |
| DB         | 25     | DBA25PK87FO  |
| DC         | 37     | DCA37PK87FO  |

Note: For crimp (size 20) contacts and tooling, see pages 83 & 275.

### Selection Guide

For Product Features, Specifications,  
Materials and Finishes, see pages 30-31.

### Reader's Resource

For contact cavity arrangements,  
see page 224.  
For panel cutouts, see page 221.  
For hardware views (Standard), see page 226.



### Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,368 (.0145) | W<br>±0,41 (.016) | K<br>±0,317 (.0125) | K<br>±0,25 (.010) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|---------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,92 (.666)      | 24,99 (.984)      | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 1,206 (.0475)       | —                 | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 25,25 (.994)      | 33,32 (1.312)     | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 1,206 (.0475)       | —                 | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,96 (1.534)     | 47,04 (1.852)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | —                   | 1,52 (.060)       | 0,99 (.039)       |
| DC         | 69,32 (2.729)     | 55,42 (2.182)     | 63,50 (2.500)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | —                   | 1,52 (.060)       | 0,99 (.039)       |
| DD         | 66,93 (2.635)     | 52,81 (2.079)     | 61,11 (2.406)     | 11,07 (.436)      | 15,37 (.605)      | 10,82 (.426)      | —                   | 6,84 (.269)       | —                   | 1,52 (.060)       | 0,99 (.039)       |

## Crimp Connectors without Contacts

Receptacle



Part Numbers

| Shell Size | Layout | Through Hole |
|------------|--------|--------------|
| DE         | 9      | DEA9SA197FO  |
| DA         | 15     | DAA15SA197FO |
| DB         | 25     | DBA25SA197FO |
| DC         | 37     | DCA37SA197FO |

Note: For crimp (size 20) contacts and tooling, see pages 83 & 275.

## Selection Guide

For Product Features, Specifications,  
Materials and Finishes, see pages 30-31.

## Reader's Resource

For contact cavity arrangements,  
see page 224.  
For panel cutouts, see page 221.  
For hardware views (Standard), see page 226.



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) | K<br>±0,318 (.0125) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,33 (.643)      | 24,99 (.984)      | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,38 (1.511)     | 47,04 (1.852)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DC         | 69,32 (2.729)     | 54,84 (2.159)     | 63,50 (2.500)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DD         | 66,93 (2.635)     | 52,42 (2.064)     | 61,11 (2.406)     | 10,74 (.423)      | 15,37 (.605)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |

## Discrete Wire IDC

### Plug



### Part Numbers

| Shell Size | Layout | Through Hole | Clinch Nut #4-40 UNC | Through Hole & Shield Can Kit | Clinch Nut #4-40 UNC & Shield Can Kit |
|------------|--------|--------------|----------------------|-------------------------------|---------------------------------------|
| DE         | 9      | DEW9P*       | DEWE9P*              | DEW9P*G                       | DEWE9P*G                              |
| DA         | 15     | DAW15P*      | DAWE15P*             | DAW15P*G                      | DAWE15P*G                             |
| DB         | 25     | DBW25P*      | DBWE25P*             | DBW25P*G                      | DBWE25P*G                             |
| DC         | 37     | DCW37P*      | DCWE37P*             | DCW37P*G                      | DCWE37P*G                             |

Note: \*Insert contact type. Example: DEW9P1.  
For contacts with 0,76 µm gold add -A176. Example: DEW9P1-A176.  
For shield can kit, see page 40.

### Selection Guide

For Product Features, Specifications, Materials and Finishes, see pages 30-31.

### Reader's Resource

For contact cavity arrangements, see page 224.  
For panel cutouts, see page 221.  
For hardware views (European), see page 227.

| Contact Types* | Wire Accommodation |
|----------------|--------------------|
| 1              | 28 AWG/30 AWG      |
| 2              | 22 AWG/26 AWG      |
| 3              | 20 AWG/22 AWG      |

For more information, see pages 40-41.



### Dimensions

| Shell Size | Layout | A<br>±0,38 (.015) | B<br>±0,12 (.005) | C<br>±0,12 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | G<br>max.   | H<br>±0,25 (.010) | J<br>±0,25 (.010) | L<br>±0,25 (.010) |
|------------|--------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------|-------------------|-------------------|-------------------|
| DEW        | 9      | 30,81 (1.213)     | 16,91 (.666)      | 24,99 (.984)      | 8,35 (.329)       | 12,55 (.494)      | 10,71 (.422)      | 6,05 (.238) | 19,27 (.759)      | 10,71 (.422)      | 0,76 (.030)       |
| DAW        | 15     | 39,14 (1.541)     | 25,54 (.994)      | 33,32 (1.312)     | 8,35 (.329)       | 12,55 (.494)      | 10,71 (.422)      | 6,05 (.238) | 27,50 (1.083)     | 10,71 (.422)      | 0,76 (.030)       |
| DBW        | 25     | 53,03 (2.048)     | 38,96 (1.534)     | 47,04 (1.852)     | 8,35 (.329)       | 12,55 (.494)      | 10,82 (.426)      | 5,99 (.236) | 41,27 (1.625)     | 10,71 (.422)      | 0,99 (.039)       |
| DCW        | 37     | 69,32 (2.729)     | 55,42 (2.182)     | 63,50 (2.500)     | 8,35 (.329)       | 12,55 (.494)      | 10,82 (.426)      | 5,99 (.236) | 57,70 (2.272)     | 10,71 (.422)      | 0,99 (.039)       |

## Discrete Wire IDC

## Receptacle



## Part Numbers

| Shell Size | Layout | Through Hole | Clinch Nut #4-40 UNC | Through Hole & Shield Can Kit | Clinch Nut #4-40 UNC & Shield Can Kit |
|------------|--------|--------------|----------------------|-------------------------------|---------------------------------------|
| DE         | 9      | DEW9S*       | DEWE9S*              | DEW9S*G                       | DEWE9S*G                              |
| DA         | 15     | DAW15S*      | DAWE15S*             | DAW15S*G                      | DAWE15S*G                             |
| DB         | 25     | DBW25S*      | DBWE25S*             | DBW25S*G                      | DBWE25S*G                             |
| DC         | 37     | DCW37S*      | DCWE37S*             | DCW37S*G                      | DCWE37S*G                             |

Note: \*Insert contact type. Example: DEW9S1.

For contacts with 0,76  $\mu$ m gold add -A176. Example: DEW9S1-A176.

For shield can kit, see page 40.

## Selection Guide

For Product Features, Specifications, Materials and Finishes, see pages 30-31.

## Reader's Resource

For contact cavity arrangements, see page 224.

For panel cutouts, see page 221.

For hardware views (European), see page 227.

| Contact Types* | Wire Accommodation |
|----------------|--------------------|
| 1              | 28 AWG/30 AWG      |
| 2              | 22 AWG/26 AWG      |
| 3              | 20 AWG/22 AWG      |

For more information, see pages 40-41.



## Dimensions

| Shell Size | Layout | A<br>±0,38 (.015) | B<br>±0,12 (.005) | C<br>±0,12 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | G<br>max.   | H<br>±0,25 (.010) | J<br>±0,25 (.010) | L<br>±0,25 (.010) |
|------------|--------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------|-------------------|-------------------|-------------------|
| DEW        | 9      | 30,81 (1.213)     | 16,33 (.643)      | 24,99 (.984)      | 7,90 (.311)       | 12,55 (.494)      | 10,89 (.429)      | 6,30 (.248) | 19,27 (.759)      | 10,71 (.422)      | 0,76 (.030)       |
| DAW        | 15     | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      | 10,89 (.429)      | 6,30 (.248) | 27,50 (1.083)     | 10,71 (.422)      | 0,76 (.030)       |
| DBW        | 25     | 53,03 (2.048)     | 38,38 (1.511)     | 47,04 (1.852)     | 7,90 (.311)       | 12,55 (.494)      | 10,89 (.429)      | 6,30 (.248) | 41,27 (1.625)     | 10,71 (.422)      | 0,76 (.030)       |
| DCW        | 37     | 69,32 (2.729)     | 55,84 (2.159)     | 63,50 (2.500)     | 7,90 (.311)       | 12,55 (.494)      | 10,89 (.429)      | 6,30 (.248) | 57,70 (2.272)     | 10,71 (.422)      | 0,76 (.030)       |

Shield Can Kit



Materials and Finishes

Shield Can and Ferrule

Material: Steel

Finish: Tin

Ferrule

| D*W    | Ø Cable  | Ferrule<br>Ø A | Ferrule<br>Part Number | Crimp Tool<br>Part Number | Crimp Tool<br>Position |
|--------|----------|----------------|------------------------|---------------------------|------------------------|
| DEW9G  | 4,8-5,5  | 6,25 (.246)    | 304-8810-000           | D115433-1                 | B                      |
|        | 5,5-6,2  | 6,25 (.246)    | 304-8810-000           | D115433-1                 | A                      |
|        | 6,2-7,2  | 8,20 (.323)    | 304-8811-000           | D115433-2                 | B                      |
|        | 7,2-8,2  | 8,20 (.323)    | 304-8811-000           | D115433-2                 | A                      |
|        | 8,2-9,5  | 11,50 (.452)   | 304-8812-000           | D115433-3                 | B                      |
|        | 9,5-11,1 | 11,50 (.452)   | 304-8813-000           | D115433-3                 | A                      |
| DBW25G | 4,8-5,5  | 6,25 (.246)    | 304-8810-000           | D115433-1                 | B                      |
|        | 5,5-6,2  | 6,25 (.246)    | 304-8810-000           | D115433-1                 | A                      |
|        | 6,2-7,2  | 8,20 (.323)    | 304-8811-000           | D115433-2                 | B                      |
|        | 7,2-8,2  | 8,20 (.323)    | 304-8811-000           | D115433-2                 | A                      |
|        | 8,2-9,5  | 11,50 (.452)   | 304-8812-000           | D115433-3                 | B                      |
|        | 9,5-11,1 | 11,50 (.452)   | 304-8813-000           | D115433-3                 | A                      |



Ferrule



Wire Trim Dimensions



Crimp Tool Positions



Discrete Wire IDC Contacts

Contacts

| Contact Types | 1            | 2            | 3            |
|---------------|--------------|--------------|--------------|
| Pin           | 330-8753-101 | 330-8753-102 | 330-8753-103 |
| Socket        | 330-8754-101 | 330-8754-102 | 330-8754-103 |

Solid Cable

| Wire Size               | 28 AWG | 30 AWG | 22 AWG | 24 AWG | 26 AWG | 20 AWG | 22 AWG |
|-------------------------|--------|--------|--------|--------|--------|--------|--------|
| Section mm <sup>2</sup> | 0.08   | 0.05   | 0.34   | 0.22   | 0.12   | 0.60   | 0.34   |
| Internal dia. mm max    | 0.32   | 0.26   | 0.62   | 0.51   | 0.40   | 0.88   | 0.62   |
| External dia. mm max    | 1.30   | 1.20   | 1.45   | 1.45   | 1.40   | 1.45   | 1.45   |

Stranded Cable

| Wire Size                  | 28 AWG   | 30 AWG   | 22 AWG   | 24 AWG   | 26 AWG   | 20 AWG    | 22 AWG   |
|----------------------------|----------|----------|----------|----------|----------|-----------|----------|
| Section mm <sup>2</sup>    | 0.09     | 0.05     | 0.34     | 0.22     | 0.12     | 0.60      | 0.34     |
| Composition                | 7 x 0.13 | 7 x 0.10 | 7 x 0.25 | 7 x 0.20 | 7 x 0.15 | 19 x 0.20 | 7 x 0.25 |
| Internal cable dia. mm max | 0.40     | 0.30     | 0.75     | 0.60     | 0.45     | 0.97      | 0.75     |
| External wire dia. mm max  | 1.30     | 1.20     | 1.45     | 1.45     | 1.40     | 1.45      | 1.45     |

Insulation Displacement Connection Concept



Tooling

Extraction Tool



Part Number  
DW115394

Hand Crimp Tool



Part Number  
Standard Tool: DW115394-1  
Automatic Tool: DW115394-2  
Tool Support: DW115394-20

Row by Row Pneumatic Press



Part Number  
DW115394-501

| Selection Index                                                                                              | Page |
|--------------------------------------------------------------------------------------------------------------|------|
| Combo D®                                                                                                     |      |
| An Introduction . . . . .                                                                                    | 43   |
| Combo D® PCB Connectors with Coaxial 75 Ohm Contacts (50 Ohm Option)                                         |      |
| Coaxial 90° — Standard Footprint .318 ♦ or .283 ♦♦ inch (Sizes DE-DC) . . . . .                              | 44   |
| Coaxial 90° — Standard Footprint .489 ♦ or .454 ♦♦ inch (Size DD) . . . . .                                  | 46   |
| 13C3 Special — Receptacle Only . . . . .                                                                     | 48   |
| 3C3 Shielded Special — Receptacle Only . . . . .                                                             | 49   |
| Coaxial 90° — European Footprint 10,2 ♦ or 9,4 ♦♦ mm (Sizes DE-DC) . . . . .                                 | 50   |
| Coaxial Straight — Standard PC Tails (Sizes DE-DC) . . . . .                                                 | 52   |
| Coaxial Straight — Standard PC Tails (Size DD) . . . . .                                                     | 54   |
| Coaxial Straight — European PC Tails (Sizes DE-DC) . . . . .                                                 | 56   |
| Coaxial Straight — European PC Tails (Size DD) . . . . .                                                     | 58   |
| Combo D® PCB Connectors with High Power Contacts                                                             |      |
| 40 A High Power 90° — Standard Footprint .489 ♦ or .454 ♦♦ inch (Sizes DE-DC) . . . . .                      | 60   |
| 40 A High Power 90° — Standard Footprint .489 ♦ or .454 ♦♦ inch (Size DD) . . . . .                          | 62   |
| 40 A High Power 90° — European Footprint 10,2 ♦ or 9,4 ♦♦ mm (Sizes DE-DC) . . . . .                         | 64   |
| 40 A High Power Straight — Standard PC Tails (Sizes DE-DC) . . . . .                                         | 66   |
| 40 A High Power Straight — Standard PC Tails (Size DD) . . . . .                                             | 68   |
| 40 A High Power Straight — European PC Tails (Sizes DE-DC) . . . . .                                         | 70   |
| 40 A High Power Straight — European PC Tails (Size DD) . . . . .                                             | 72   |
| Combo D® PCB Connectors with (Size 20) Signal Contacts Only                                                  |      |
| 90° — European Footprint 10,2 ♦ or 9,4 ♦♦ mm (Sizes DE-DD) . . . . .                                         | 74   |
| Straight PC Tails — European (Sizes DE-DD) . . . . .                                                         | 76   |
| Solder Cup (Sizes DE-DD) . . . . .                                                                           | 78   |
| Combo D® PCB Crimp Connectors without Contacts (Sizes DA-DD) . . . . .                                       | 80   |
| Loose Contacts and Tooling                                                                                   |      |
| Shield Cans and Crimp Tooling . . . . .                                                                      | 82   |
| Crimp (Size 20) Contacts and Tooling . . . . .                                                               | 83   |
| Cable (Size 8) Loose Contacts                                                                                |      |
| Coaxial 75 Ohm and Tooling — Straight Stamped Crimp/Crimp . . . . .                                          | 84   |
| Coaxial 75 Ohm and Tooling — 90° Crimp Braid/Solder Center Contact . . . . .                                 | 85   |
| Coaxial 50 Ohm — Straight Crimp or Solder Braid . . . . .                                                    | 86   |
| Coaxial 50 Ohm — 90° Crimp or Solder Braid . . . . .                                                         | 87   |
| Insertion/Extraction Instructions for Coaxial,<br>High Power and High Voltage Contacts and Tooling . . . . . | 88   |
| Coaxial Assembly Instructions and Crimp Tooling . . . . .                                                    | 89   |
| High Power and Tooling — Straight Solder or Crimp . . . . .                                                  | 90   |
| High Voltage — Straight / 90° . . . . .                                                                      | 91   |
| PCB (Size 8) Loose Contacts                                                                                  |      |
| Coaxial 75 Ohm — Straight / 90° . . . . .                                                                    | 92   |
| High Power — Straight / 90° . . . . .                                                                        | 93   |
| High Voltage — Straight . . . . .                                                                            | 94   |
| PCB Guide Pin and Socket . . . . .                                                                           | 95   |

♦ Connector footprint measured from front shell.  
♦♦ Connector footprint measured from rear shell.

**C**ombination D Subminiature connectors offer the advantages of an industry standard shield I/O interconnect, with the flexibility of a customized special, designed for any application.

This connector system is ideal for applications that require optimization of space while improving overall shielding. Combo D® accomplishes this by combining multiple interconnect types into one fully shielded product, decreasing the number I/O interfaces and reducing the possibility of EMI/RFI leakage.

By continually investing in engineering and manufacturing technology, ITT Cannon has improved the performance and features of this popular product. This catalog contains our latest efforts to meet the global requirements of the commercial electronics industry with a flexible, reliable and cost effective connector solution.



#### Applications

Video Coaxial Transmission (75  $\Omega$ )  
RF and Telecom Transmission (50  $\Omega$ )  
Power Interconnects (Up to 40 A)

#### Product Features

Standard and European Footprints  
Pre-Installed 75  $\Omega$ /50  $\Omega$  Coaxial or High  
Power contacts (One Part Number)  
Vertical Standoffs or 90° Brackets

90° or Straight PCB  
PC Boards up to 3,2 (.125) Thick  
PCB Variants Available with Boardlocks and/or  
Screw Locks (#4-40 or M3)

#### Specifications

|                                                |                                       |                                                      |                                           |
|------------------------------------------------|---------------------------------------|------------------------------------------------------|-------------------------------------------|
| Temperature Rating                             | –55°C to 125°C                        | Coaxial VSWR                                         | Less than 1.30 + .03F for F up to 500 MHz |
| Signal Contact Current Rating                  | 7.5 A current capacity                | Coaxial Insertion Loss                               | .3dB loss at 500 MHz                      |
| Signal Contact Resistance                      | 55 millivolt max. at 7.5 test current | High Power Current Rating                            | Up to 40 A                                |
| Signal Contact Dielectric Withstanding Voltage | 1250 VAC at Sea Level                 | High Power Dielectric Withstanding Voltage           | 1000 VAC at Sea Level                     |
| Coaxial Current Rating                         | 5 A                                   | High Voltage Current Rating                          | 5 A                                       |
| Coaxial Dielectric Withstanding Voltage        | 1000 VAC at Sea Level                 | High Voltage Contact Dielectric Withstanding Voltage | 2800 V at Sea Level                       |
| Coaxial Impedance                              | 75 $\Omega$ or 50 $\Omega$            |                                                      |                                           |

#### Materials and Finishes

##### Connector Assembly

| Description    | Material                  | Finish/Treatment                                |
|----------------|---------------------------|-------------------------------------------------|
| Shell          | Steel                     | Tin                                             |
| Insulator      | Black Polyester, UL 94V-0 | None                                            |
| Pin Contact    | Copper Alloy              | Gold over Nickel                                |
| Socket Contact | Copper Alloy              | Gold over Nickel in mating area, Tin on balance |
| Standoff       | Stainless Steel           | Passivated                                      |
| Bracket        | Steel                     | Tin                                             |
| Rivnut         | Steel                     | Tin                                             |
| Boardlock      | Copper Alloy              | Tin                                             |

##### Coaxial/High Power/High Voltage Contact Assemblies

|                               |               |                                                |
|-------------------------------|---------------|------------------------------------------------|
| Contacts and outer shells     | Copper Alloy  | Gold over Nickel (Tin on coax ground PC tails) |
| Ring, Retaining               | Copper Alloy  | Nickel                                         |
| Insulator (Coaxial only)      | Teflon        | None                                           |
| Insulator (High Voltage only) | Thermoplastic | None                                           |

U.L. File Number: E8572

## Coaxial 90° — Standard Footprint .318♦ or .283 inch♦♦ (Sizes DE-DC)

## Plug



## Reader's Resource

For contact cavity arrangements, see page 222.  
 For P.C. hole patterns, see pages 228-229.  
 For panel cutouts, see page 221.  
 For hardware views (Standard), see page 226.  
 For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.  
 For alternate 50 Ohm coaxial configuration, see page 225.

## 75 Ohm Part Numbers\* with Metal Bracket and Rivnut #4-40 UNC

| Shell Size | Layout | Part Number Without Screw Locks Without Boardlocks | Part Number Without Screw Locks With Boardlocks | Part Number With Screw Locks Without Boardlocks | Part Number With Screw Locks With Boardlocks |
|------------|--------|----------------------------------------------------|-------------------------------------------------|-------------------------------------------------|----------------------------------------------|
| DE         | 5W1    | DEMP5C1PJK87                                       | DEMC5C1PJK87                                    | DEMD5C1PJK87                                    | DEMG5C1PJK87                                 |
| DA         | 7W2    | DAMP7C2PJK87                                       | DAMC7C2PJK87                                    | DAMD7C2PJK87                                    | DAMG7C2PJK87                                 |
| DA         | 11W1   | DAMP11C1PJK87                                      | DAMC11C1PJK87                                   | DAMD11C1PJK87                                   | DAMG11C1PJK87                                |
| DA         | 3W3    | DAMP3C3PJK87                                       | DAMC3C3PJK87                                    | DAMD3C3PJK87                                    | DAMG3C3PJK87                                 |
| DA         | 3WK3♣  | DAMP3CK3PJK87TM                                    | DAMC3CK3PJK87TM                                 | DAMD3CK3PJK87TM                                 | DAMG3CK3PJK87TM                              |
| DB         | 5W5    | DBMP5C5PJK87                                       | DBMC5C5PJK87                                    | DBMD5C5PJK87                                    | DBMG5C5PJK87                                 |
| DB         | 9W4    | DBMP9C4PJK87                                       | DBMC9C4PJK87                                    | DBMD9C4PJK87                                    | DBMG9C4PJK87                                 |
| DB         | 13W3   | DBMP13C3PJK87                                      | DBMC13C3PJK87                                   | DBMD13C3PJK87                                   | DBMG13C3PJK87                                |
| DB         | 17W2   | DBMP17C2PJK87                                      | DBMC17C2PJK87                                   | DBMD17C2PJK87                                   | DBMG17C2PJK87                                |
| DB         | 21W1   | DBMP21C1PJK87                                      | DBMC21C1PJK87                                   | DBMD21C1PJK87                                   | DBMG21C1PJK87                                |
| DC         | 8W8    | DCMP8C8PJK87                                       | DCMC8C8PJK87                                    | DCMD8C8PJK87                                    | DCMG8C8PJK87                                 |
| DC         | 13W6   | DCMP13C6PJK87                                      | DCMC13C6PJK87                                   | DCMD13C6PJK87                                   | DCMG13C6PJK87                                |
| DC         | 17W5   | DCMP17C5PJK87                                      | DCMC17C5PJK87                                   | DCMD17C5PJK87                                   | DCMG17C5PJK87                                |
| DC         | 21WA4  | DCMP21CA4PJK87                                     | DCMC21CA4PJK87                                  | DCMD21CA4PJK87                                  | DCMG21CA4PJK87                               |
| DC         | 25W3   | DCMP25C3PJK87                                      | DCMC25C3PJK87                                   | DCMD25C3PJK87                                   | DCMG25C3PJK87                                |
| DC         | 27W2   | DCMP27C2PJK87                                      | DCMC27C2PJK87                                   | DCMD27C2PJK87                                   | DCMG27C2PJK87                                |

Notes: \* For 50 Ohm Coaxial substitute X for C. Example: DEMP5X1PJK87

For contacts with 30 micrometers gold substitute K127 for K87. Example: DEMP5C1PJK127

For DD shell sizes, see page 46.

♣ Keyed.



Note: ♥ Dimension varies with alternate bracket configuration, see Reader's Resource page 226.

## Dimensions

| Shell Size | A             | B             | C             | D            | E            | F            | W              | W            | L            |
|------------|---------------|---------------|---------------|--------------|--------------|--------------|----------------|--------------|--------------|
|            | ±0.38 (.015)  | ±0.13 (.005)  | ±0.13 (.005)  | ±0.13 (.005) | ±0.38 (.015) | ±0.25 (.010) | ±0.368 (.0145) | ±0.41 (.016) | ±0.25 (.010) |
| DE         | 30.81 (1.213) | 16.92 (.666)  | 24.99 (.984)  | 8.36 (.329)  | 12.55 (.494) | 10.72 (.422) | 6.693 (.2635)  | —            | 0.76 (.030)  |
| DA         | 39.14 (1.541) | 25.25 (.994)  | 33.32 (1.312) | 8.36 (.329)  | 12.55 (.494) | 10.72 (.422) | 6.693 (.2635)  | —            | 0.76 (.030)  |
| DB         | 53.04 (2.088) | 38.96 (1.534) | 47.04 (1.852) | 8.36 (.329)  | 12.55 (.494) | 10.82 (.426) | —              | 6.84 (.269)  | 0.99 (.039)  |
| DC         | 69.32 (2.729) | 55.42 (2.182) | 63.50 (2.500) | 8.36 (.329)  | 12.55 (.494) | 10.82 (.426) | —              | 6.84 (.269)  | 0.99 (.039)  |

♦ Connector footprint measured from the front shell.

♦♦ Connector footprint measured from the rear shell.

## Coaxial 90° — Standard Footprint .318♦ or .283 inch♦♦ (Sizes DE-DC)

## Receptacle



## Reader's Resource

For contact cavity arrangements, see page 223.

For P.C. hole patterns, see pages 231-232.

For panel cutouts, see page 221.

For hardware views (Standard), see page 226.

For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.

For alternate 50 Ohm coaxial configuration, see page 225.

## 75 Ohm Part Numbers\* with Metal Bracket and Rivnut #4-40 UNC

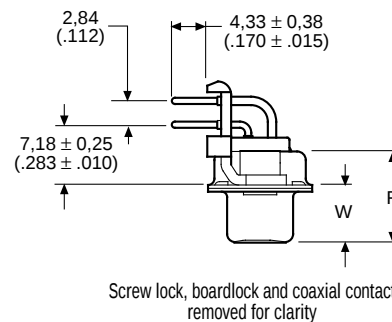
| Shell Size | Layout | Part Number Without Screw Locks Without Boardlocks | Part Number Without Screw Locks With Boardlocks | Part Number With Screw Locks Without Boardlocks | Part Number With Screw Locks With Boardlocks |
|------------|--------|----------------------------------------------------|-------------------------------------------------|-------------------------------------------------|----------------------------------------------|
| DE         | 5W1    | DEMP5C1SJA197                                      | DEMC5C1SJA197                                   | DEMD5C1SJA197                                   | DEMG5C1SJA197                                |
| DA         | 7W2    | DAMP7C2SJA197                                      | DAMC7C2SJA197                                   | DAMD7C2SJA197                                   | DAMG7C2SJA197                                |
| DA         | 11W1   | DAMP11C1SJA197                                     | DAMC11C1SJA197                                  | DAMD11C1SJA197                                  | DAMG11C1SJA197                               |
| DA         | 3W3    | DAMP3C3SJA197                                      | DAMC3C3SJA197                                   | DAMD3C3SJA197                                   | DAMG3C3SJA197                                |
| DA         | 3WK3♣  | DAMP3CK3SJA197TM                                   | DAMC3CK3SJA197TM                                | DAMD3CK3SJA197TM                                | DAMG3CK3SJA197TM                             |
| DB         | 5W5    | DBMP5C5SJA197                                      | DBMC5C5SJA197                                   | DBMD5C5SJA197                                   | DBMG5C5SJA197                                |
| DB         | 9W4    | DBMP9C4SJA197                                      | DBMC9C4SJA197                                   | DBMD9C4SJA197                                   | DBMG9C4SJA197                                |
| DB         | 13W3   | DBMP13C3SJA197                                     | DBMC13C3SJA197                                  | DBMD13C3SJA197                                  | DBMG13C3SJA197                               |
| DB         | 17W2   | DBMP17C2SJA197                                     | DBMC17C2SJA197                                  | DBMD17C2SJA197                                  | DBMG17C2SJA197                               |
| DB         | 21W1   | DBMP21C1SJA197                                     | DBMC21C1SJA197                                  | DBMD21C1SJA197                                  | DBMG21C1SJA197                               |
| DC         | 8W8    | DCMP8C8SJA197                                      | DCMC8C8SJA197                                   | DCMD8C8SJA197                                   | DCMG8C8SJA197                                |
| DC         | 13W6   | DCMP13C6SJA197                                     | DCMC13C6SJA197                                  | DCMD13C6SJA197                                  | DCMG13C6SJA197                               |
| DC         | 17W5   | DCMP17C5SJA197                                     | DCMC17C5SJA197                                  | DCMD17C5SJA197                                  | DCMG17C5SJA197                               |
| DC         | 21WA4  | DCMP21CA4SJA197                                    | DCMC21CA4SJA197                                 | DCMD21CA4SJA197                                 | DCMG21CA4SJA197                              |
| DC         | 25W3   | DCMP25C3SJA197                                     | DCMC25C3SJA197                                  | DCMD25C3SJA197                                  | DCMG25C3SJA197                               |
| DC         | 27W2   | DCMP27C2SJA197                                     | DCMC27C2SJA197                                  | DCMD27C2SJA197                                  | DCMG27C2SJA197                               |

Notes: \* For 50 Ohm Coaxial substitute X for C. Example: DEMP5X1SJA197

For contacts with 30 microinches gold substitute K126 for A197. Example: DEMP5C1SJ126

For DD Shell Sizes, see page 47.

♣ Keyed.



Note: ♥ Dimension varies with alternate bracket configuration, See Reader's Resource page 226.

## Dimensions

| Shell Size | A<br>±0.38 (.015) | B<br>±0.13 (.005) | C<br>±0.13 (.005) | D<br>±0.13 (.005) | E<br>±0.38 (.015) | F<br>±0.25 (.010) | W<br>±0.38 (.015) | L<br>±0.25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 30.81 (1.213)     | 16.33 (.643)      | 24.99 (.984)      | 7.90 (.311)       | 12.55 (.494)      | 10.90 (.429)      | 6.94 (.273)       | 0.76 (.030)       |
| DA         | 39.14 (1.541)     | 24.66 (.971)      | 33.32 (1.312)     | 7.90 (.311)       | 12.55 (.494)      | 10.90 (.429)      | 6.94 (.273)       | 0.76 (.030)       |
| DB         | 53.04 (2.088)     | 38.38 (1.511)     | 47.04 (1.852)     | 7.90 (.311)       | 12.55 (.494)      | 10.90 (.429)      | 6.94 (.273)       | 0.76 (.030)       |
| DC         | 69.32 (2.729)     | 54.84 (2.159)     | 63.50 (2.500)     | 7.90 (.311)       | 12.55 (.494)      | 10.90 (.429)      | 6.94 (.273)       | 0.76 (.030)       |

- ♦ Connector footprint measured from the front shell.
- ♦♦ Connector footprint measured from the rear shell.

## Coaxial 90° — Standard Footprint .489♦ or .454 inch♦♦ (Size DD)

## Plug



## 75 Ohm Part Numbers\* with Metal Bracket and Rivnut #4-40 UNC

| Shell Size | Layout | Part Number<br>Without Screw Locks<br>Without Boardlocks | Part Number<br>Without Screw Locks<br>With Boardlocks | Part Number<br>With Screw Locks<br>Without Boardlocks | Part Number<br>With Screw Locks<br>With Boardlocks |
|------------|--------|----------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|
| DD         | 24W7   | DDMP24C7PJK87                                            | DDMC24C7PJK87                                         | DDMD24C7PJK87                                         | DDMG24C7PJK87                                      |
| DD         | 36W4   | DDMP36C4PJK87                                            | DDMC36C4PJK87                                         | DDMD36C4PJK87                                         | DDMG36C4PJK87                                      |
| DD         | 43W2   | DDMP43C2PJK87                                            | DDMC43C2PJK87                                         | DDMD43C2PJK87                                         | DDMG43C2PJK87                                      |
| DD         | 47W1   | DDMP47C1PJK87                                            | DDMC47C1PJK87                                         | DDMD47C1PJK87                                         | DDMG47C1PJK87                                      |

Notes: \* For 50 Ohm Coaxial substitute X for C. Example: DDMG36X4PJK87

For contacts with 30 microinches gold substitute K127 for K87. Example: DDMP24C7PJK127

## Reader's Resource

For contact cavity arrangements,  
see page 222.

For P.C. hole patterns, see page 230.

For panel cutouts, see page 221.

For hardware views (Standard), see page 226.

For alternate bracket configuration (when  
connectors are supplied without boardlocks),  
see page 226.For alternate 50 Ohm coaxial configuration,  
see page 225.Screw lock, boardlock, and coaxial contacts  
removed for clarityScrew lock, boardlock, and signal contacts  
removed for clarity

Note: ♥ Dimension varies with alternate bracket configuration, See Reader's Resource page 226.

## Dimensions

| Shell Size | A             | B             | C             | D            | E            | F            | W            | L            |
|------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|
| DD         | ±0.38 (.015)  | ±0.13 (.005)  | ±0.13 (.005)  | ±0.13 (.005) | ±0.38 (.015) | ±0.25 (.010) | ±0.41 (.016) | ±0.25 (.010) |
| DD         | 66.93 (2.635) | 52.81 (2.079) | 61.11 (2.406) | 11.07 (.436) | 15.37 (.605) | 10.82 (.426) | 6.84 (.269)  | 0.99 (.039)  |

- ♦ Connector footprint measured from the front shell.  
♦♦ Connector footprint measured from the rear shell.

## Coaxial 90° — Standard Footprint .489♦ or .454 inch♦♦ (Size DD)

## Receptacle



## 75 Ohm Part Numbers\* with Metal Bracket and Rivnut #4-40 UNC

| Shell Size | Layout | Part Number<br>Without Screw Locks<br>Without Boardlocks | Part Number<br>Without Screw Locks<br>With Boardlocks | Part Number<br>With Screw Locks<br>Without Boardlocks | Part Number<br>With Screw Locks<br>With Boardlocks |
|------------|--------|----------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|
| DD         | 24W7   | DDMP24C7SJA197                                           | DDMC24C7SJA197                                        | DDMD24C7SJA197                                        | DDMG24C7SJA197                                     |
| DD         | 36W4   | DDMP36C4SJA197                                           | DDMC36C4SJA197                                        | DDMD36C4SJA197                                        | DDMG36C4SJA197                                     |
| DD         | 43W2   | DDMP43C2SJA197                                           | DDMC43C2SJA197                                        | DDMD43C2SJA197                                        | DDMG43C2SJA197                                     |
| DD         | 47W1   | DDMP47C1SJA197                                           | DDMC47C1SJA197                                        | DDMD47C1SJA197                                        | DDMG47C1SJA197                                     |

Notes: \* For 50 Ohm Coaxial substitute X for C. Example: DDMG36X4SJA197

For contacts with 30 microinches gold substitute K126 for A197. Example: DDMP24C7SJK126

## Reader's Resource

For contact cavity arrangements,

see page 223.

For P.C. hole patterns, see page 233.

For panel cutouts, see page 221.

For hardware views (Standard), see page 226.

For alternate bracket configuration (when  
connectors are supplied without boardlocks),  
see page 226.For alternate 50 Ohm coaxial configuration,  
see page 225.Screw lock, boardlock, and coaxial contact  
removed for clarityScrew lock, boardlock, and signal contacts  
removed for clarity

Note: ♥ Dimension varies with alternate bracket configuration, See Reader's Resource page 226.

## Dimensions

| Shell Size | A             | B             | C             | D            | E            | F            | W            | L            |
|------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|
| DD         | ±0.38 (.015)  | ±0.13 (.005)  | ±0.13 (.005)  | ±0.13 (.005) | ±0.38 (.015) | ±0.25 (.010) | ±0.38 (.015) | ±0.25 (.010) |
|            | 66.93 (2.635) | 52.42 (2.064) | 61.11 (2.406) | 10.74 (.423) | 15.37 (.605) | 10.90 (.429) | 6.94 (.273)  | 0.76 (.030)  |

- ♦ Connector footprint measured from the front shell.  
♦♦ Connector footprint measured from the rear shell.

13C3 Special — Receptacle only

Receptacle



Finishes

Signal and Coaxial  
Center Contact Finish: 30  $\mu$  inches Gold.

Note: For additional materials and finishes, see introduction page 43.

Part Number

DB111949-43

Reader's Resource

For contact cavity arrangements,  
see page 223.  
For P.C. hole patterns, see page 236 (Rear  
shell REF. is 0,76 (.030) from front shell).  
For panel cutouts, see page 221.



3C3 Shielded Special — Receptacle only

Receptacle



| Materials and Finishes                                                 |                  | Part Number   |
|------------------------------------------------------------------------|------------------|---------------|
| Body Material:                                                         | Zinc             | DAM53512-1405 |
| Body Finish:                                                           | Tin              |               |
| Coaxial Center Contact Finish:                                         | 30 μ inches Gold |               |
| Note: For additional materials and finishes, see introduction page 43. |                  |               |

Reader's Resource  
For contact cavity arrangements, see page 223.  
For P.C. hole patterns, see page 231.  
For panel cutouts, see page 221.



Note: Connector supplied with boardlocks.

Dimensions

|            | A             | B            | C             | D            | E            | F            | W            |
|------------|---------------|--------------|---------------|--------------|--------------|--------------|--------------|
| Shell Size | ±0,38 (.015)  | ±0,13 (.005) | ±0,13 (.005)  | ±0,13 (.005) | ±0,38 (.015) | ±0,25 (.010) | ±0,25 (.010) |
| DA         | 39,14 (1.541) | 24,66 (.971) | 33,32 (1.312) | 7,90 (.311)  | 12,55 (.494) | 10,90 (.429) | 6,17 (.243)  |

## Coaxial 90° — European Footprint 10,2♦ or 9,4 mm♦♦ (Sizes DE-DC)

## Plug



## Reader's Resource

For contact cavity arrangements, see page 222.  
 For P.C. hole patterns, see page 234-235.  
 For panel cutouts, see page 221.  
 For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.  
 For alternate 50 Ohm coaxial configuration, see page 225.

## 75 Ohm Part Numbers\* with Metal Bracket and Rivnut #4-40 UNC

| Shell Size | Layout | Part Number Without Screw Locks Without Boardlocks | Part Number Without Screw Locks With Boardlocks | Part Number With Screw Locks Without Boardlocks | Part Number With Screw Locks With Boardlocks |
|------------|--------|----------------------------------------------------|-------------------------------------------------|-------------------------------------------------|----------------------------------------------|
| DE         | 5W1    | DEMP5C1PVK87                                       | DEMC5C1PVK87                                    | DEMD5C1PVK87                                    | DEMG5C1PVK87                                 |
| DA         | 7W2    | DAMP7C2PVK87                                       | DAMC7C2PVK87                                    | DAMD7C2PVK87                                    | DAMG7C2PVK87                                 |
| DA         | 11W1   | DAMP11C1PVK87                                      | DAMC11C1PVK87                                   | DAMD11C1PVK87                                   | DAMG11C1PVK87                                |
| DA         | 3W3    | DAMP3C3PVK87                                       | DAMC3C3PVK87                                    | DAMD3C3PVK87                                    | DAMG3C3PVK87                                 |
| DA         | 3WK3♣  | DAMP3CK3PVK87TM                                    | DAMC3CK3PVK87TM                                 | DAMD3CK3PVK87TM                                 | DAMG3CK3PVK87TM                              |
| DB         | 5W5    | DBMP5C5PVK87                                       | DBMC5C5PVK87                                    | DBMD5C5PVK87                                    | DBMG5C5PVK87                                 |
| DB         | 9W4    | DBMP9C4PVK87                                       | DBMC9C4PVK87                                    | DBMD9C4PVK87                                    | DBMG9C4PVK87                                 |
| DB         | 13W3   | DBMP13C3PVK87                                      | DBMC13C3PVK87                                   | DBMD13C3PVK87                                   | DBMG13C3PVK87                                |
| DB         | 17W2   | DBMP17C2PVK87                                      | DBMC17C2PVK87                                   | DBMD17C2PVK87                                   | DBMG17C2PVK87                                |
| DB         | 21W1   | DBMP21C1PVK87                                      | DBMC21C1PVK87                                   | DBMD21C1PVK87                                   | DBMG21C1PVK87                                |
| DC         | 8W8    | DCMP8C8PVK87                                       | DCMC8C8PVK87                                    | DCMD8C8PVK87                                    | DCMG8C8PVK87                                 |
| DC         | 13W6   | DCMP13C6PVK87                                      | DCMC13C6PVK87                                   | DCMD13C6PVK87                                   | DCMG13C6PVK87                                |
| DC         | 17W5   | DCMP17C5PVK87                                      | DCMC17C5PVK87                                   | DCMD17C5PVK87                                   | DCMG17C5PVK87                                |
| DC         | 21WA4  | DCMP21CA4PVK87                                     | DCMC21CA4PVK87                                  | DCMD21CA4PVK87                                  | DCMG21CA4PVK87                               |
| DC         | 25W3   | DCMP25C3PVK87                                      | DCMC25C3PVK87                                   | DCMD25C3PVK87                                   | DCMG25C3PVK87                                |
| DC         | 27W2   | DCMP27C2PVK87                                      | DCMC27C2PVK87                                   | DCMD27C2PVK87                                   | DCMG27C2PVK87                                |

For M3 threads replace MP with MS, MC with ML, MD with MO, MG with MJ.

Notes: \* For 50 Ohm Coaxial substitute X for C. Example: DEMP5X1PVK87

For tin plated PC tails add A226 (signal contacts only). Example: DEMP5C1PVK87A226

For performance class 2 substitute K127 for K87. Example: DEMP5C1PVK127

For DD shell sizes (Standard footprint) see page 46.

♣ Keyed.



Note: ♥ Dimension varies with alternate bracket configuration, see Reader's Resource page 226.

## Dimensions

| Shell Size | A             | B             | C             | D            | E            | F            | W              | W            | L            |
|------------|---------------|---------------|---------------|--------------|--------------|--------------|----------------|--------------|--------------|
|            | ±0,38 (.015)  | ±0,13 (.005)  | ±0,13 (.005)  | ±0,13 (.005) | ±0,38 (.015) | ±0,25 (.010) | ±0,368 (.0145) | ±0,41 (.016) | ±0,25 (.010) |
| DE         | 30,81 (1.213) | 16,92 (.666)  | 24,99 (.984)  | 8,36 (.329)  | 12,55 (.494) | 10,72 (.422) | 6,693 (.2635)  | —            | 0,76 (.030)  |
| DA         | 39,14 (1.541) | 25,25 (.994)  | 33,32 (1.312) | 8,36 (.329)  | 12,55 (.494) | 10,72 (.422) | 6,693 (.2635)  | —            | 0,76 (.030)  |
| DB         | 53,04 (2.088) | 38,96 (1.534) | 47,04 (1.852) | 8,36 (.329)  | 12,55 (.494) | 10,82 (.426) | —              | 6,84 (.269)  | 0,99 (.039)  |
| DC         | 69,32 (2.729) | 55,42 (2.182) | 63,50 (2.500) | 8,36 (.329)  | 12,55 (.494) | 10,82 (.426) | —              | 6,84 (.269)  | 0,99 (.039)  |

♦ Connector footprint measured from the front shell.

♦♦ Connector footprint measured from the rear shell.

**ITT Cannon**

Dimensions are shown in mm (inch)  
 Dimensions subject to change

## Coaxial 90° — European Footprint 10,2♦ or 9,4 mm♦♦ (Sizes DE-DC)

## Receptacle



## Reader's Resource

For contact cavity arrangements, see page 223.

For P.C. hole patterns, see pages 236-237.

For panel cutouts, see page 221.

For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.

For alternate 50 Ohm coaxial configuration, see page 225.

## 75 Ohm Part Numbers\* with Metal Bracket and Rivnut #4-40 UNC

| Shell Size | Layout | Part Number Without Screw Locks Without Boardlocks | Part Number Without Screw Locks With Boardlocks | Part Number With Screw Locks Without Boardlocks | Part Number With Screw Locks With Boardlocks |
|------------|--------|----------------------------------------------------|-------------------------------------------------|-------------------------------------------------|----------------------------------------------|
| DE         | 5W1    | DEMP5C1SVA197                                      | DEMC5C1SVA197                                   | DEMD5C1SVA197                                   | DEMG5C1SVA197                                |
| DA         | 7W2    | DAMP7C2SVA197                                      | DAMC7C2SVA197                                   | DAMD7C2SVA197                                   | DAMG7C2SVA197                                |
| DA         | 11W1   | DAMP11C1SVA197                                     | DAMC11C1SVA197                                  | DAMD11C1SVA197                                  | DAMG11C1SVA197                               |
| DA         | 3W3    | DAMP3C3SVA197                                      | DAMC3C3SVA197                                   | DAMD3C3SVA197                                   | DAMG3C3SVA197                                |
| DA         | 3WK3♣  | DAMP3CK3SVA197TM                                   | DAMC3CK3SVA197TM                                | DAMD3CK3SVA197TM                                | DAMG3CK3SVA197TM                             |
| DB         | 5W5    | DBMP5C5SVA197                                      | DBMC5C5SVA197                                   | DBMD5C5SVA197                                   | DBMG5C5SVA197                                |
| DB         | 9W4    | DBMP9C4SVA197                                      | DBMC9C4SVA197                                   | DBMD9C4SVA197                                   | DBMG9C4SVA197                                |
| DB         | 13W3   | DBMP13C3SVA197                                     | DBMC13C3SVA197                                  | DBMD13C3SVA197                                  | DBMG13C3SVA197                               |
| DB         | 17W2   | DBMP17C2SVA197                                     | DBMC17C2SVA197                                  | DBMD17C2SVA197                                  | DBMG17C2SVA197                               |
| DB         | 21W1   | DBMP21C1SVA197                                     | DBMC21C1SVA197                                  | DBMD21C1SVA197                                  | DBMG21C1SVA197                               |
| DC         | 8W8    | DCMP8C8SVA197                                      | DCMC8C8SVA197                                   | DCMD8C8SVA197                                   | DCMG8C8SVA197                                |
| DC         | 13W6   | DCMP13C6SVA197                                     | DCMC13C6SVA197                                  | DCMD13C6SVA197                                  | DCMG13C6SVA197                               |
| DC         | 17W5   | DCMP17C5SVA197                                     | DCMC17C5SVA197                                  | DCMD17C5SVA197                                  | DCMG17C5SVA197                               |
| DC         | 21WA4  | DCMP21CA4SVA197                                    | DCMC21CA4SVA197                                 | DCMD21CA4SVA197                                 | DCMG21CA4SVA197                              |
| DC         | 25W3   | DCMP25C3SVA197                                     | DCMC25C3SVA197                                  | DCMD25C3SVA197                                  | DCMG25C3SVA197                               |
| DC         | 27W2   | DCMP27C2SVA197                                     | DCMC27C2SVA197                                  | DCMD27C2SVA197                                  | DCMG27C2SVA197                               |

For M3 threads replace MP with MS, MC with ML, MD with MO, MG with MJ.

Notes: \* For 50 Ohm Coaxial substitute X for C. Example: DEMP5X1SVA197

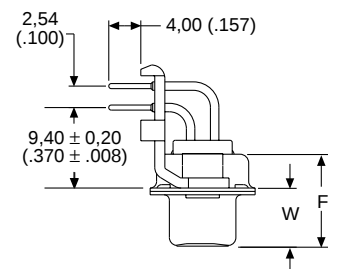
For performance class 2 substitute K126 for A197. Example: DEMP5C1SVK126

For DD shell sizes (standard footprint) see page 47.

♣ Keyed.



Screw lock, boardlock, and signal contacts removed for clarity



Screw lock, boardlock, and coaxial contact removed for clarity

Note: ♥ Dimension varies with alternate bracket configuration, see Reader's Resource page 226.

## Dimensions

| Shell Size | A<br>±0.38 (.015) | B<br>±0.13 (.005) | C<br>±0.13 (.005) | D<br>±0.13 (.005) | E<br>±0.38 (.015) | F<br>±0.25 (.010) | W<br>±0.38 (.015) | L<br>±0.25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 30.81 (1.213)     | 16.33 (.643)      | 24.99 (.984)      | 7.90 (.311)       | 12.55 (.494)      | 10.90 (.429)      | 6.94 (.273)       | 0.76 (.030)       |
| DA         | 39.14 (1.541)     | 24.66 (.971)      | 33.32 (1.312)     | 7.90 (.311)       | 12.55 (.494)      | 10.90 (.429)      | 6.94 (.273)       | 0.76 (.030)       |
| DB         | 53.04 (2.088)     | 38.38 (1.511)     | 47.04 (1.852)     | 7.90 (.311)       | 12.55 (.494)      | 10.90 (.429)      | 6.94 (.273)       | 0.76 (.030)       |
| DC         | 69.32 (2.729)     | 54.84 (2.159)     | 63.50 (2.500)     | 7.90 (.311)       | 12.55 (.494)      | 10.90 (.429)      | 6.94 (.273)       | 0.76 (.030)       |

- ♦ Connector footprint measured from the front shell.
- ♦♦ Connector footprint measured from the rear shell.

## Coaxial Straight — Standard PC Tails (Sizes DE-DC)

## Plug



## Reader's Resource

For contact cavity arrangements, see page 222.  
 For P.C. hole patterns, see pages 238-239.  
 For panel cutouts, see page 221.  
 For alternate 50 Ohm coaxial configuration, see page 225.

## 75 Ohm Part Numbers\* with Standoff #4-40 UNC

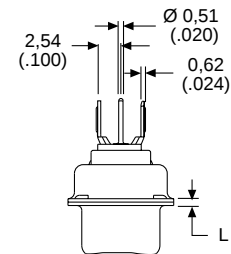
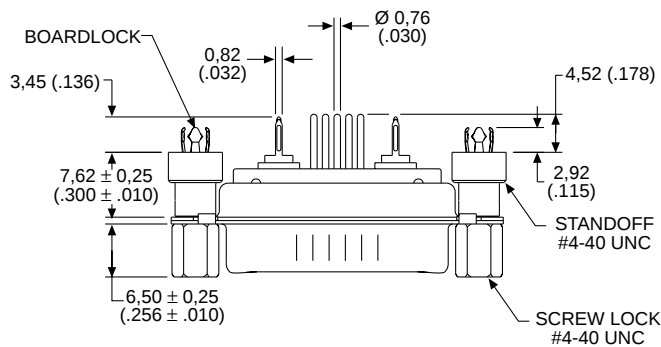
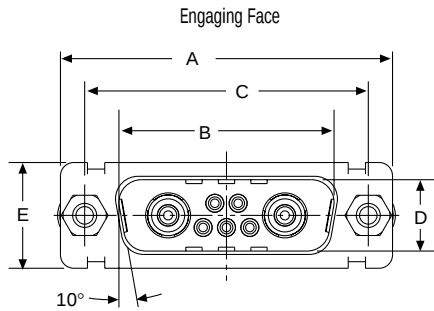
| Shell Size | Layout | Part Number Without Screw Locks Without Boardlocks | Part Number Without Screw Locks With Boardlocks | Part Number With Screw Locks With Boardlocks |
|------------|--------|----------------------------------------------------|-------------------------------------------------|----------------------------------------------|
| DE         | 5W1    | DEM5C1PNK87                                        | DEM5C1PNK87                                     | DEM5C1PNK87                                  |
| DA         | 7W2    | DAMV7C2PNK87                                       | DAMZ7C2PNK87                                    | DAMN7C2PNK87                                 |
| DA         | 11W1   | DAMV11C1PNK87                                      | DAMZ11C1PNK87                                   | DAMN11C1PNK87                                |
| DA         | 3W3    | DAMV3C3PNK87                                       | DAMZ3C3PNK87                                    | DAMN3C3PNK87                                 |
| DA         | 3WK3♣  | DAMV3CK3PNK87TM                                    | DAMZ3CK3PNK87TM                                 | DAMN3CK3PNK87TM                              |
| DB         | 5W5    | DBMV5C5PNK87                                       | DBMZ5C5PNK87                                    | DBMN5C5PNK87                                 |
| DB         | 9W4    | DBMV9C4PNK87                                       | DBMZ9C4PNK87                                    | DBMN9C4PNK87                                 |
| DB         | 13W3   | DBMV13C3PNK87                                      | DBMZ13C3PNK87                                   | DBMN13C3PNK87                                |
| DB         | 17W2   | DBMV17C2PNK87                                      | DBMZ17C2PNK87                                   | DBMN17C2PNK87                                |
| DB         | 21W1   | DBMV21C1PNK87                                      | DBMZ21C1PNK87                                   | DBMN21C1PNK87                                |
| DC         | 8W8    | DCMV8C8PNK87                                       | DCMZ8C8PNK87                                    | DCMN8C8PNK87                                 |
| DC         | 13W6   | DCMV13C6PNK87                                      | DCMZ13C6PNK87                                   | DCMN13C6PNK87                                |
| DC         | 17W5   | DCMV17C5PNK87                                      | DCMZ17C5PNK87                                   | DCMN17C5PNK87                                |
| DC         | 21WA4  | DCMV21CA4PNK87                                     | DCMZ21CA4PNK87                                  | DCMN21CA4PNK87                               |
| DC         | 25W3   | DCMV25C3PNK87                                      | DCMZ25C3PNK87                                   | DCMN25C3PNK87                                |
| DC         | 27W2   | DCMV27C2PNK87                                      | DCMZ27C2PNK87                                   | DCMN27C2PNK87                                |

Notes: \* For 50 Ohm Coaxial substitute X for C. Example: DEMV5X1PNK87

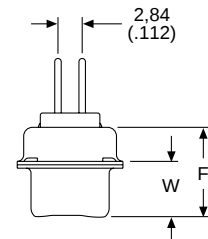
For contacts with 30 microinches gold substitute K127 for K87. Example: DEMN5C1PNK127

For DD shell sizes, see page 54.

♣ Keyed.



Screw lock, boardlock, and signal contacts removed for clarity



Screw lock, boardlock, and coaxial contact removed for clarity

## Dimensions

| Shell Size | A<br>±0.38 (.015) | B<br>±0.13 (.005) | C<br>±0.13 (.005) | D<br>±0.13 (.005) | E<br>±0.38 (.015) | F<br>±0.25 (.010) | W<br>±0.368 (.0145) | W<br>±0.41 (.016) | L<br>±0.25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|-------------------|
| DE         | 30.81 (1.213)     | 16.92 (.666)      | 24.99 (.984)      | 8.36 (.329)       | 12.55 (.494)      | 10.72 (.422)      | 6.693 (.2635)       | —                 | 0.76 (.030)       |
| DA         | 39.14 (1.541)     | 25.25 (.994)      | 33.32 (1.312)     | 8.36 (.329)       | 12.55 (.494)      | 10.72 (.422)      | 6.693 (.2635)       | —                 | 0.76 (.030)       |
| DB         | 53.04 (2.088)     | 38.96 (1.534)     | 47.04 (1.852)     | 8.36 (.329)       | 12.55 (.494)      | 10.82 (.426)      | —                   | 6.84 (.269)       | 0.99 (.039)       |
| DC         | 69.32 (2.729)     | 55.42 (2.182)     | 63.50 (2.500)     | 8.36 (.329)       | 12.55 (.494)      | 10.82 (.426)      | —                   | 6.84 (.269)       | 0.99 (.039)       |

## Coaxial Straight — Standard PC Tails (Sizes DE-DC)

## Receptacle



## Reader's Resource

For contact cavity arrangements,  
see page 223.

For P.C. hole patterns, see pages 241-242.

For panel cutouts, see page 221.

For alternate 50 Ohm coaxial configuration,  
see page 225.

## 75 Ohm Part Numbers\* with Standoff #4-40 UNC

| Shell Size | Layout | Part Number<br>Without Screw Locks<br>Without Boardlocks | Part Number<br>Without Screw Locks<br>With Boardlocks | Part Number<br>With Screw Locks<br>With Boardlocks |
|------------|--------|----------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|
| DE         | 5W1    | DEMV5C1SNA197                                            | DEMZ5C1SNA197                                         | DEMN5C1SNA197                                      |
| DA         | 7W2    | DAMV7C2SNA197                                            | DAMZ7C2SNA197                                         | DAMN7C2SNA197                                      |
| DA         | 11W1   | DAMV11C1SNA197                                           | DAMZ11C1SNA197                                        | DAMN11C1SNA197                                     |
| DA         | 3W3    | DAMV3C3SNA197                                            | DAMZ3C3SNA197                                         | DAMN3C3SNA197                                      |
| DA         | 3WK3♣  | DAMV3CK3SNA197TM                                         | DAMZ3CK3SNA197TM                                      | DAMN3CK3SNA197TM                                   |
| DB         | 5W5    | DBMV5C5SNA197                                            | DBMZ5C5SNA197                                         | DBMN5C5SNA197                                      |
| DB         | 9W4    | DBMV9C4SNA197                                            | DBMZ9C4SNA197                                         | DBMN9C4SNA197                                      |
| DB         | 13W3   | DBMV13C3SNA197                                           | DBMZ13C3SNA197                                        | DBMN13C3SNA197                                     |
| DB         | 17W2   | DBMV17C2SNA197                                           | DBMZ17C2SNA197                                        | DBMN17C2SNA197                                     |
| DB         | 21W1   | DBMV21C1SNA197                                           | DBMZ21C1SNA197                                        | DBMN21C1SNA197                                     |
| DC         | 8W8    | DCMV8C8SNA197                                            | DCMZ8C8SNA197                                         | DCMN8C8SNA197                                      |
| DC         | 13W6   | DCMV13C6SNA197                                           | DCMZ13C6SNA197                                        | DCMN13C6SNA197                                     |
| DC         | 17W5   | DCMV17C5SNA197                                           | DCMZ17C5SNA197                                        | DCMN17C5SNA197                                     |
| DC         | 21WA4  | DCMV21CA4SNA197                                          | DCMZ21CA4SNA197                                       | DCMN21CA4SNA197                                    |
| DC         | 25W3   | DCMV25C3SNA197                                           | DCMZ25C3SNA197                                        | DCMN25C3SNA197                                     |
| DC         | 27W2   | DCMV27C2SNA197                                           | DCMZ27C2SNA197                                        | DCMN27C2SNA197                                     |

Notes: \* For 50 Ohm Coaxial substitute X for C. Example: DEMV5X1SNA197

For contacts with 30 microinches gold substitute K126 for A197. Example: DEMN5C1SNK126

For DD shell sizes, see page 55.

♣ Keyed.



Hardware and signal contacts  
removed for clarity



Hardware and coaxial contact  
removed for clarity

## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>0,25 (.010) | W<br>±0,38 (.015) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,33 (.643)      | 24,99 (.984)      | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)     | 6,94 (.273)       | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)     | 6,94 (.273)       | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,38 (1.511)     | 47,04 (1.852)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)     | 6,94 (.273)       | 0,76 (.030)       |
| DC         | 69,32 (2.729)     | 54,84 (2.159)     | 63,50 (2.500)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)     | 6,94 (.273)       | 0,76 (.030)       |

Coaxial Straight — Standard PC Tails (Size DD)



75 Ohm Part Numbers\* with Standoff #4-40 UNC

| Shell Size | Layout | Part Number                               | Part Number                            | Part Number                         |
|------------|--------|-------------------------------------------|----------------------------------------|-------------------------------------|
|            |        | Without Screw Locks<br>Without Boardlocks | Without Screw Locks<br>With Boardlocks | With Screw Locks<br>With Boardlocks |
| DD         | 24W7   | DDMV24C7PNK87                             | DDMZ24C7PNK87                          | DDMN24C7PNK87                       |
| DD         | 36W4   | DDMV36C4PNK87                             | DDMZ36C4PNK87                          | DDMN36C4PNK87                       |
| DD         | 43W2   | DDMV43C2PNK87                             | DDMZ43C2PNK87                          | DDMN43C2PNK87                       |
| DD         | 47W1   | DDMV47C1PNK87                             | DDMZ47C1PNK87                          | DDMN47C1PNK87                       |

Notes: \* For 50 Ohm Coaxial substitute X for C. Example: DDMV24X7PNK87  
For contacts with 30 microinches gold substitute K127 for K87. Example: DDMN24C7PNK127

Reader's Resource  
For contact cavity arrangements,  
see page 222.  
For P.C. hole patterns, see page 240.  
For panel cutouts, see page 221.  
For alternate 50 Ohm coaxial configuration,  
see page 225.



Hardware and signal contacts removed for clarity



Hardware and coaxial contact removed for clarity

Dimensions

| Shell Size | A<br>±0.38 (.015) | B<br>±0.13 (.005) | C<br>±0.13 (.005) | D<br>±0.13 (.005) | E<br>±0.38 (.015) | F<br>±0.25 (.010) | W<br>±0.41 (.016) | L<br>±0.25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DD         | 66.93 (2.635)     | 52.81 (2.079)     | 61.11 (2.406)     | 11.07 (.436)      | 15.37 (.605)      | 10.82 (.426)      | 6.84 (.269)       | 0.99 (.039)       |

## Coaxial Straight — Standard PC Tails (Size DD)

## Receptacle



## 75 Ohm Part Numbers\* with Standoff #4-40 UNC

| Shell Size | Layout | Part Number<br>Without Screw Locks<br>Without Boardlocks | Part Number<br>Without Screw Locks<br>With Boardlocks | Part Number<br>With Screw Locks<br>With Boardlocks |
|------------|--------|----------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|
| DD         | 24W7   | DDMV24C7SNA197                                           | DDMZ24C7SNA197                                        | DDMN24C7SNA197                                     |
| DD         | 36W4   | DDMV36C4SNA197                                           | DDMZ36C4SNA197                                        | DDMN36C4SNA197                                     |
| DD         | 43W2   | DDMV43C2SNA197                                           | DDMZ43C2SNA197                                        | DDMN43C2SNA197                                     |
| DD         | 47W1   | DDMV47C1SNA197                                           | DDMZ47C1SNA197                                        | DDMN47C1SNA197                                     |

Notes: \* For 50 Ohm Coaxial substitute X for C. Example: DDMV24X7SNA197

For contacts with 30 microinches gold substitute K126 for A197. Example: DDMN24C7SNK126

## Reader's Resource

For contact cavity arrangements,  
see page 223.

For P.C. hole patterns, see page 243.

For panel cutouts, see page 221.

For alternate 50 Ohm coaxial configuration,  
see page 225.



Hardware and signal contacts  
removed for clarity



Hardware and coaxial contact  
removed for clarity

## Dimensions

| Shell Size | A             | B             | C             | D            | E            | F            | W            | L            |
|------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|
|            | ±0,38 (.015)  | ±0,13 (.005)  | ±0,13 (.005)  | ±0,13 (.005) | ±0,38 (.015) | ±0,25 (.010) | ±0,38 (.015) | ±0,25 (.010) |
| DD         | 66,93 (2.635) | 52,42 (2.064) | 61,11 (2.406) | 10,74 (.423) | 15,37 (.605) | 10,90 (.429) | 6,94 (.273)  | 0,76 (.030)  |

## Coaxial Straight — European PC Tails (Sizes DE-DC)

## Plug



## Reader's Resource

For contact cavity arrangements, see page 222.

For P.C. hole patterns, see pages 238-239.

For panel cutouts, see page 221.

For alternate 50 Ohm coaxial configuration, see page 225.

## 75 Ohm Part Numbers\* with Standoff #4-40 UNC

| Shell Size | Layout | Part Number Without Screw Locks Without Boardlocks | Part Number Without Screw Locks With Boardlocks | Part Number With Screw Locks With Boardlocks |
|------------|--------|----------------------------------------------------|-------------------------------------------------|----------------------------------------------|
| DE         | 5W1    | DEMVC1PYK87                                        | DEMC1PYK87                                      | DEMC1PYK87                                   |
| DA         | 7W2    | DAMV7C2PYK87                                       | DAMZ7C2PYK87                                    | DAMN7C2PYK87                                 |
| DA         | 11W1   | DAMV11C1PYK87                                      | DAMZ11C1PYK87                                   | DAMN11C1PYK87                                |
| DA         | 3W3    | DAMV3C3PYK87                                       | DAMZ3C3PYK87                                    | DAMN3C3PYK87                                 |
| DA         | 3WK3♣  | DAMV3CK3PYK87TM                                    | DAMZ3CK3PYK87TM                                 | DAMN3CK3PYK87TM                              |
| DB         | 5W5    | DBMV5C5PYK87                                       | DBMZ5C5PYK87                                    | DBMN5C5PYK87                                 |
| DB         | 9W4    | DBMV9C4PYK87                                       | DBMZ9C4PYK87                                    | DBMN9C4PYK87                                 |
| DB         | 13W3   | DBMV13C3PYK87                                      | DBMZ13C3PYK87                                   | DBMN13C3PYK87                                |
| DB         | 17W2   | DBMV17C2PYK87                                      | DBMZ17C2PYK87                                   | DBMN17C2PYK87                                |
| DB         | 21W1   | DBMV21C1PYK87                                      | DBMZ21C1PYK87                                   | DBMN21C1PYK87                                |
| DC         | 8W8    | DCMV8C8PYK87                                       | DCMZ8C8PYK87                                    | DCMN8C8PYK87                                 |
| DC         | 13W6   | DCMV13C6PYK87                                      | DCMZ13C6PYK87                                   | DCMN13C6PYK87                                |
| DC         | 17W5   | DCMV17C5PYK87                                      | DCMZ17C5PYK87                                   | DCMN17C5PYK87                                |
| DC         | 21WA4  | DCMV21CA4PYK87                                     | DCMZ21CA4PYK87                                  | DCMN21CA4PYK87                               |
| DC         | 25W3   | DCMV25C3PYK87                                      | DCMZ25C3PYK87                                   | DCMN25C3PYK87                                |
| DC         | 27W2   | DCMV27C2PYK87                                      | DCMZ27C2PYK87                                   | DCMN27C2PYK87                                |

For M3 threads replace MV with MT, MZ with MQ, MN with MU.

Notes: \* For 50 Ohm Coaxial substitute X for C. Example: DEMV5X1PYK87

For tin plated PC tails add A226 (signal contacts only). Example: DEMV5C1PYK87A226

For performance class 2 substitute K127 for K87. Example: DEMV5C1PYK127

For DD shell sizes, see page 58.

♣ Keyed.



Hardware and signal contacts removed for clarity



Hardware and coaxial contact removed for clarity

## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,368 (.0145) | W<br>±0,41 (.016) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,92 (.666)      | 24,99 (.984)      | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 25,25 (.994)      | 33,32 (1.312)     | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,96 (1.534)     | 47,04 (1.852)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       |
| DC         | 69,32 (2.729)     | 55,42 (2.182)     | 63,50 (2.500)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       |

## Coaxial Straight — European PC Tails (Sizes DE-DC)

## Receptacle



## Reader's Resource

For contact cavity arrangements,  
see page 223.

For P.C. hole patterns, see pages 241-242.

For panel cutouts, see page 221.

For alternate 50 Ohm coaxial configuration,  
see page 225.

## 75 Ohm Part Numbers\* with Standoff #4-40 UNC

| Shell Size | Layout | Part Number<br>Without Screw Locks<br>Without Boardlocks | Part Number<br>Without Screw Locks<br>With Boardlocks | Part Number<br>With Screw Locks<br>With Boardlocks |
|------------|--------|----------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|
| DE         | 5W1    | DEM5C1SYA197                                             | DEM5C1SYA197                                          | DEM5C1SYA197                                       |
| DA         | 7W2    | DAMV7C2SYA197                                            | DAMZ7C2SYA197                                         | DAMN7C2SYA197                                      |
| DA         | 11W1   | DAMV11C1SYA197                                           | DAMZ11C1SYA197                                        | DAMN11C1SYA197                                     |
| DA         | 3W3    | DAMV3C3SYA197                                            | DAMZ3C3SYA197                                         | DAMN3C3SYA197                                      |
| DA         | 3WK3♣  | DAMV3CK3SYA197TM                                         | DAMZ3CK3SYA197TM                                      | DAMN3CK3SYA197TM                                   |
| DB         | 5W5    | DBMV5C5SYA197                                            | DBMZ5C5SYA197                                         | DBMN5C5SYA197                                      |
| DB         | 9W4    | DBMV9C4SYA197                                            | DBMZ9C4SYA197                                         | DBMN9C4SYA197                                      |
| DB         | 13W3   | DBMV13C3SYA197                                           | DBMZ13C3SYA197                                        | DBMN13C3SYA197                                     |
| DB         | 17W2   | DBMV17C2SYA197                                           | DBMZ17C2SYA197                                        | DBMN17C2SYA197                                     |
| DB         | 21W1   | DBMV21C1SYA197                                           | DBMZ21C1SYA197                                        | DBMN21C1SYA197                                     |
| DC         | 8W8    | DCMV8C8SYA197                                            | DCMZ8C8SYA197                                         | DCMN8C8SYA197                                      |
| DC         | 13W6   | DCMV13C6SYA197                                           | DCMZ13C6SYA197                                        | DCMN13C6SYA197                                     |
| DC         | 17W5   | DCMV17C5SYA197                                           | DCMZ17C5SYA197                                        | DCMN17C5SYA197                                     |
| DC         | 21WA4  | DCMV21CA4SYA197                                          | DCMZ21CA4SYA197                                       | DCMN21CA4SYA197                                    |
| DC         | 25W3   | DCMV25C3SYA197                                           | DCMZ25C3SYA197                                        | DCMN25C3SYA197                                     |
| DC         | 27W2   | DCMV27C2SYA197                                           | DCMZ27C2SYA197                                        | DCMN27C2SYA197                                     |

For M3 threads replace MV with MT, MZ with MQ, MN with MU.

Notes: \* For 50 Ohm Coaxial substitute X for C. Example: DEMV5X1SYA197

For performance class 2 substitute K126 for A197. Example: DEMV5C1SYK126

For DD shell sizes, see page 59.

♣ Keyed.



Hardware and signal contacts  
removed for clarity



Hardware and coaxial contact  
removed for clarity

## Dimensions

| Shell Size | A<br>±0.38 (.015) | B<br>±0.13 (.005) | C<br>±0.13 (.005) | D<br>±0.13 (.005) | E<br>±0.38 (.015) | F<br>±0.25 (.010) | W<br>±0.38 (.015) | L<br>±0.25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 30.81 (1.213)     | 16.33 (.643)      | 24.99 (.984)      | 7.90 (.311)       | 12.55 (.494)      | 10.90 (.429)      | 6.94 (.273)       | 0.76 (.030)       |
| DA         | 39.14 (1.541)     | 24.66 (.971)      | 33.32 (1.312)     | 7.90 (.311)       | 12.55 (.494)      | 10.90 (.429)      | 6.94 (.273)       | 0.76 (.030)       |
| DB         | 53.04 (2.088)     | 38.38 (1.511)     | 47.04 (1.852)     | 7.90 (.311)       | 12.55 (.494)      | 10.90 (.429)      | 6.94 (.273)       | 0.76 (.030)       |
| DC         | 69.32 (2.729)     | 54.84 (2.159)     | 63.50 (2.500)     | 7.90 (.311)       | 12.55 (.494)      | 10.90 (.429)      | 6.94 (.273)       | 0.76 (.030)       |

Coaxial Straight — European PC Tails (Size DD)

Plug



75 Ohm Part Numbers\* with Standoff #4-40 UNC

| Shell Size | Layout | Part Number                               | Part Number                            | Part Number                         |
|------------|--------|-------------------------------------------|----------------------------------------|-------------------------------------|
|            |        | Without Screw Locks<br>Without Boardlocks | Without Screw Locks<br>With Boardlocks | With Screw Locks<br>With Boardlocks |
| DD         | 24W7   | DDMV24C7PYK87                             | DDMZ24C7PYK87                          | DDMN24C7PYK87                       |
| DD         | 36W4   | DDMV36C4PYK87                             | DDMZ36C4PYK87                          | DDMN36C4PYK87                       |
| DD         | 43W2   | DDMV43C2PYK87                             | DDMZ43C2PYK87                          | DDMN43C2PYK87                       |
| DD         | 47W1   | DDMV47C1PYK87                             | DDMZ47C1PYK87                          | DDMN47C1PYK87                       |

For M3 threads replace MV with MT, MZ with MQ, MN with MU.  
Notes: \* For 50 Ohm Coaxial substitute X for C. Example: DDMV24X7PYK87  
For tin plated PC tails add A226 (signal contacts only). Example: DDMV24C7PYK87A226  
For performance class 2 substitute K127 for K87. Example: DDMV24C7PYK127

Reader's Resource

- For contact cavity arrangements, see page 222.
- For P.C. hole patterns, see page 240.
- For panel cutouts, see page 221.
- For alternate 50 Ohm coaxial configuration, see page 225.



Hardware and signal contacts removed for clarity



Hardware and coaxial contact removed for clarity

Dimensions

| Shell Size | A             | B             | C             | D            | E            | F            | W            | L            |
|------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|
|            | ±0,38 (.015)  | ±0,13 (.005)  | ±0,13 (.005)  | ±0,13 (.005) | ±0,38 (.015) | ±0,25 (.010) | ±0,41 (.016) | ±0,25 (.010) |
| DD         | 66,93 (2.635) | 52,81 (2.079) | 61,11 (2.406) | 11,07 (.436) | 15,37 (.605) | 10,82 (.426) | 6,84 (.269)  | 0,99 (.039)  |

## Coaxial Straight — European PC Tails (Size DD)

## Receptacle



75 Ohm Part Numbers\* with Standoff #4-40 UNC

| Shell Size | Layout | Part Number<br>Without Screw Locks<br>Without Boardlocks | Part Number<br>Without Screw Locks<br>With Boardlocks | Part Number<br>With Screw Locks<br>With Boardlocks |
|------------|--------|----------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|
| DD         | 24W7   | DDMV24C7SYA197                                           | DDMZ24C7SYA197                                        | DDMN24C7SYA197                                     |
| DD         | 36W4   | DDMV36C4SYA197                                           | DDMZ36C4SYA197                                        | DDMN36C4SYA197                                     |
| DD         | 43W2   | DDMV43C2SYA197                                           | DDMZ43C2SYA197                                        | DDMN43C2SYA197                                     |
| DD         | 47W1   | DDMV47C1SYA197                                           | DDMZ47C1SYA197                                        | DDMN47C1SYA197                                     |

For M3 threads replace MV with MT, MZ with MQ, MN with MU.

Notes: \* For 50 Ohm Coaxial substitute X for C. Example: DDMV24X7SYA197

For performance class 2 substitute K126 for A197. Example: DDMV24C7SYK126

## Reader's Resource

For contact cavity arrangements,

see page 223.

For P.C. hole patterns, see page 243.

For panel cutouts, see page 221.

For alternate 50 Ohm coaxial configuration,

see page 225.



## Dimensions

| Shell Size | A             | B             | C             | D            | E            | F            | W            | L            |
|------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|
|            | ±0.38 (.015)  | ±0.13 (.005)  | ±0.13 (.005)  | ±0.13 (.005) | ±0.38 (.015) | ±0.25 (.010) | ±0.38 (.015) | ±0.25 (.010) |
| DD         | 66.93 (2.635) | 52.42 (2.064) | 61.11 (2.406) | 10.74 (.423) | 15.37 (.605) | 10.90 (.429) | 6.94 (.273)  | 0.76 (.030)  |

## Plug



For contact cavity arrangements, see page 222.  
For P.C. hole patterns, see pages 244-245.  
For panel cutouts, see page 221.  
For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.

| Shell Size | Layout | Part Number<br>Without Screw Locks<br>Without Boardlocks | Part Number<br>Without Screw Locks<br>With Boardlocks | Part Number<br>With Screw Locks<br>Without Boardlocks | Part Number<br>With Screw Locks<br>With Boardlocks |
|------------|--------|----------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|
| DE         | 5W1    | DEMP5H1PJk87                                             | DEMC5H1PJk87                                          | DEMD5H1PJk87                                          | DEMG5H1PJk87                                       |
| DA         | 7W2    | DAMP7H2PJk87                                             | DAMC7H2PJk87                                          | DAMD7H2PJk87                                          | DAMG7H2PJk87                                       |
| DA         | 11W1   | DAMP11H1PJk87                                            | DAMC11H1PJk87                                         | DAMD11H1PJk87                                         | DAMG11H1PJk87                                      |
| DA         | 3W3    | DAMP3H3PJk87                                             | DAMC3H3PJk87                                          | DAMD3H3PJk87                                          | DAMG3H3PJk87                                       |
| DA         | 3WK3♣  | DAMP3HK3PJk87TM                                          | DAMC3HK3PJk87TM                                       | DAMD3HK3PJk87TM                                       | DAMG3HK3PJk87TM                                    |
| DB         | 5W5    | DBMP5H5PJk87                                             | DBMC5H5PJk87                                          | DBMD5H5PJk87                                          | DBMG5H5PJk87                                       |
| DB         | 9W4    | DBMP9H4PJk87                                             | DBMC9H4PJk87                                          | DBMD9H4PJk87                                          | DBMG9H4PJk87                                       |
| DB         | 13W3   | DBMP13H3PJk87                                            | DBMC13H3PJk87                                         | DBMD13H3PJk87                                         | DBMG13H3PJk87                                      |
| DB         | 17W2   | DBMP17H2PJk87                                            | DBMC17H2PJk87                                         | DBMD17H2PJk87                                         | DBMG17H2PJk87                                      |
| DB         | 21W1   | DBMP21H1PJk87                                            | DBMC21H1PJk87                                         | DBMD21H1PJk87                                         | DBMG21H1PJk87                                      |
| DC         | 8W8    | DCMP8H8PJk87                                             | DCMC8H8PJk87                                          | DCMD8H8PJk87                                          | DCMG8H8PJk87                                       |
| DC         | 13W6   | DCMP13H6PJk87                                            | DCMC13H6PJk87                                         | DCMD13H6PJk87                                         | DCMG13H6PJk87                                      |
| DC         | 17W5   | DCMP17H5PJk87                                            | DCMC17H5PJk87                                         | DCMD17H5PJk87                                         | DCMG17H5PJk87                                      |
| DC         | 21WA4  | DCMP21HA4PJk87                                           | DCMC21HA4PJk87                                        | DCMD21HA4PJk87                                        | DCMG21HA4PJk87                                     |
| DC         | 25W3   | DCMP25H3PJk87                                            | DCMC25H3PJk87                                         | DCMD25H3PJk87                                         | DCMG25H3PJk87                                      |
| DC         | 27W2   | DCMP27H2PJk87                                            | DCMC27H2PJk87                                         | DCMD27H2PJk87                                         | DCMG27H2PJk87                                      |

♣ Keved.



| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,368 (.0145) | W<br>±0,41 (.016) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,92 (.666)      | 24,99 (.984)      | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 25,25 (.994)      | 33,32 (1.312)     | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,96 (1.534)     | 47,04 (1.852)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       |
| DC         | 69,32 (2.729)     | 55,42 (2.182)     | 63,50 (2.500)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       |

# ITT Cannon

Dimensions are shown in mm (inch)  
Dimensions subject to change

## 40 A High Power 90° — Standard Footprint .489♦ or .454 inch♦♦ (Sizes DE-DC)

## Receptacle



## Reader's Resource

For contact cavity arrangements, see page 223.

For P.C. hole patterns, see pages 247-248.

For panel cutouts, see page 221.

For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.

## Part Numbers with Metal Bracket and Rivnut #4-40 UNC

| Shell Size | Layout | Part Number Without Screw Locks Without Boardlocks | Part Number Without Screw Locks With Boardlocks | Part Number With Screw Locks Without Boardlocks | Part Number With Screw Locks With Boardlocks |
|------------|--------|----------------------------------------------------|-------------------------------------------------|-------------------------------------------------|----------------------------------------------|
| DE         | 5W1    | DEMP5H1SJA197                                      | DEMC5H1SJA197                                   | DEMD5H1SJA197                                   | DEMG5H1SJA197                                |
| DA         | 7W2    | DAMP7H2SJA197                                      | DAMC7H2SJA197                                   | DAMD7H2SJA197                                   | DAMG7H2SJA197                                |
| DA         | 11W1   | DAMP11H1SJA197                                     | DAMC11H1SJA197                                  | DAMD11H1SJA197                                  | DAMG11H1SJA197                               |
| DA         | 3W3    | DAMP3H3SJA197                                      | DAMC3H3SJA197                                   | DAMD3H3SJA197                                   | DAMG3H3SJA197                                |
| DA         | 3WK3♣  | DAMP3HK3SJA197TM                                   | DAMC3HK3SJA197TM                                | DAMD3HK3SJA197TM                                | DAMG3HK3SJA197TM                             |
| DB         | 5W5    | DBMP5H5SJA197                                      | DBMC5H5SJA197                                   | DBMD5H5SJA197                                   | DBMG5H5SJA197                                |
| DB         | 9W4    | DBMP9H4SJA197                                      | DBMC9H4SJA197                                   | DBMD9H4SJA197                                   | DBMG9H4SJA197                                |
| DB         | 13W3   | DBMP13H3SJA197                                     | DBMC13H3SJA197                                  | DBMD13H3SJA197                                  | DBMG13H3SJA197                               |
| DB         | 17W2   | DBMP17H2SJA197                                     | DBMC17H2SJA197                                  | DBMD17H2SJA197                                  | DBMG17H2SJA197                               |
| DB         | 21W1   | DBMP21H1SJA197                                     | DBMC21H1SJA197                                  | DBMD21H1SJA197                                  | DBMG21H1SJA197                               |
| DC         | 8W8    | DCMP8H8SJA197                                      | DCMC8H8SJA197                                   | DCMD8H8SJA197                                   | DCMG8H8SJA197                                |
| DC         | 13W6   | DCMP13H6SJA197                                     | DCMC13H6SJA197                                  | DCMD13H6SJA197                                  | DCMG13H6SJA197                               |
| DC         | 17W5   | DCMP17H5SJA197                                     | DCMC17H5SJA197                                  | DCMD17H5SJA197                                  | DCMG17H5SJA197                               |
| DC         | 21WA4  | DCMP21HA4SJA197                                    | DCMC21HA4SJA197                                 | DCMD21HA4SJA197                                 | DCMG21HA4SJA197                              |
| DC         | 25W3   | DCMP25H3SJA197                                     | DCMC25H3SJA197                                  | DCMD25H3SJA197                                  | DCMG25H3SJA197                               |
| DC         | 27W2   | DCMP27H2SJA197                                     | DCMC27H2SJA197                                  | DCMD27H2SJA197                                  | DCMG27H2SJA197                               |

Note: For contacts with 30 microinches of gold substitute K126 for A197. Example: DEMP5H1SJK126  
For DD shell sizes, see page 63.

♣ Keyed.



Note: ♥ Dimension varies with alternate bracket configuration, see Reader's Resource page 226.

## Dimensions

| Shell Size | A<br>±0.38 (.015) | B<br>±0.13 (.005) | C<br>±0.13 (.005) | D<br>±0.13 (.005) | E<br>±0.38 (.015) | F<br>±0.25 (.010) | W<br>±0.38 (.015) | L<br>±0.25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 30.81 (1.213)     | 16.33 (.643)      | 24.99 (.984)      | 7.90 (.311)       | 12.55 (.494)      | 10.90 (.429)      | 6.94 (.273)       | 0.76 (.030)       |
| DA         | 39.14 (1.541)     | 24.66 (.971)      | 33.32 (1.312)     | 7.90 (.311)       | 12.55 (.494)      | 10.90 (.429)      | 6.94 (.273)       | 0.76 (.030)       |
| DB         | 53.04 (2.088)     | 38.38 (1.511)     | 47.04 (1.852)     | 7.90 (.311)       | 12.55 (.494)      | 10.90 (.429)      | 6.94 (.273)       | 0.76 (.030)       |
| DC         | 69.32 (2.729)     | 54.84 (2.159)     | 63.50 (2.500)     | 7.90 (.311)       | 12.55 (.494)      | 10.90 (.429)      | 6.94 (.273)       | 0.76 (.030)       |

- ♦ Connector footprint measured from the front shell.
- ♦♦ Connector footprint measured from the rear shell.

## 40 A High Power 90° — Standard Footprint .489♦ or .454 inch♦♦ (Size DD)

Plug



Part Numbers with Metal Bracket and Rivnut #4-40 UNC

| Shell Size | Layout | Part Number Without Screw Locks Without Boardlocks | Part Number Without Screw Locks With Boardlocks | Part Number With Screw Locks Without Boardlocks | Part Number With Screw Locks With Boardlocks |
|------------|--------|----------------------------------------------------|-------------------------------------------------|-------------------------------------------------|----------------------------------------------|
| DD         | 24W7   | DDMP24H7PJK87                                      | DDMC24H7PJK87                                   | DDMD24H7PJK87                                   | DDMG24H7PJK87                                |
| DD         | 36W4   | DDMP36H4PJK87                                      | DDMC36H4PJK87                                   | DDMD36H4PJK87                                   | DDMG36H4PJK87                                |
| DD         | 43W2   | DDMP43H2PJK87                                      | DDMC43H2PJK87                                   | DDMD43H2PJK87                                   | DDMG43H2PJK87                                |
| DD         | 47W1   | DDMP47H1PJK87                                      | DDMC47H1PJK87                                   | DDMD47H1PJK87                                   | DDMG47H1PJK87                                |

Note: For contacts with 30 microinches gold substitute K127 for K87. Example: DDMP24H7PJK127

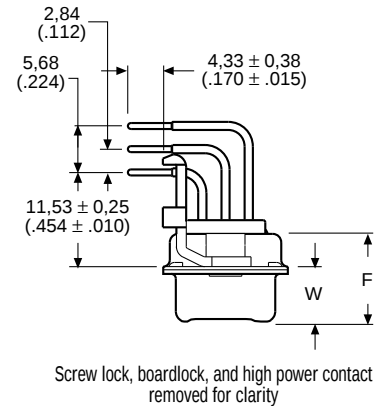
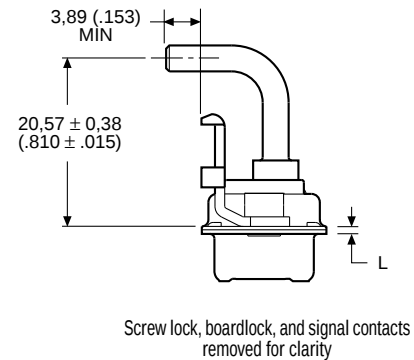
## Reader's Resource

For contact cavity arrangements,  
see page 222.

For P.C. hole patterns, see page 246.

For panel cutouts, see page 221.

For alternate bracket configuration (when  
connectors are supplied without boardlocks),  
see page 226.



Note: ♥ Dimension varies with alternate bracket configuration, see Reader's Resource page 226.

## Dimensions

| Shell Size | A<br>±0.38 (.015) | B<br>±0.13 (.005) | C<br>±0.13 (.005) | D<br>±0.13 (.005) | E<br>±0.38 (.015) | F<br>±0.25 (.010) | W<br>±0.41 (.016) | L<br>±0.25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DD         | 66.93 (2.635)     | 52.81 (2.079)     | 61.11 (2.406)     | 11.07 (.436)      | 15.37 (.605)      | 10.82 (.426)      | 6.84 (.269)       | 0.99 (.039)       |

- ♦ Connector footprint measured from the front shell.
- ♦♦ Connector footprint measured from the rear shell.

## 40 A High Power 90° — Standard Footprint .489♦ or .454 inch♦♦ (Size DD)

## Receptacle



## Part Numbers with Metal Bracket and Rivnut #4-40 UNC

| Shell Size | Layout | Part Number Without Screw Locks Without Boardlocks | Part Number Without Screw Locks With Boardlocks | Part Number With Screw Locks Without Boardlocks | Part Number With Screw Locks With Boardlocks |
|------------|--------|----------------------------------------------------|-------------------------------------------------|-------------------------------------------------|----------------------------------------------|
| DD         | 24W7   | DDMP24H7SJA197                                     | DDMC24H7SJA197                                  | DDMD24H7SJA197                                  | DDMG24H7SJA197                               |
| DD         | 36W4   | DDMP36H4SJA197                                     | DDMC36H4SJA197                                  | DDMD36H4SJA197                                  | DDMG36H4SJA197                               |
| DD         | 43W2   | DDMP43H2SJA197                                     | DDMC43H2SJA197                                  | DDMD43H2SJA197                                  | DDMG43H2SJA197                               |
| DD         | 47W1   | DDMP47H1SJA197                                     | DDMC47H1SJA197                                  | DDMD47H1SJA197                                  | DDMG47H1SJA197                               |

Note: For contacts with 30 microinches gold substitute K126 for A197. Example: DDMP24H7SJK126

## Reader's Resource

For contact cavity arrangements,  
see page 223.

For P.C. hole patterns, see page 249.

For panel cutouts, see page 221.

For alternate bracket configuration (when  
connectors are supplied without boardlocks),  
see page 226.



Screw lock, boardlock, and signal contacts removed for clarity



Screw lock, boardlock, and high power contact removed for clarity

Note: ♥ Dimension varies with alternate bracket configuration, see page 226.

## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DD         | 66,93 (2.635)     | 52,42 (2.064)     | 61,11 (2.406)     | 10,74 (.423)      | 15,37 (.605)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |

- ♦ Connector footprint measured from the front shell.  
♦♦ Connector footprint measured from the rear shell.

## 40 A High Power 90° — European Footprint 10,2♦ or 9,4 mm♦♦ (Sizes DE-DC)

## Plug



## Reader's Resource

For contact cavity arrangements,  
see page 222.

For P.C. hole patterns, see pages 250-251.

For panel cutouts, see page 221.

For alternate bracket configuration (when  
connectors are supplied without boardlocks),  
see page 226.

## Part Numbers with Metal Bracket and Rivnut #4-40 UNC

| Shell Size | Layout | Part Number<br>Without Screw Locks<br>Without Boardlocks | Part Number<br>Without Screw Locks<br>With Boardlocks | Part Number<br>With Screw Locks<br>Without Boardlocks | Part Number<br>With Screw Locks<br>With Boardlocks |
|------------|--------|----------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|
| DE         | 5W1    | DEMP5P1PVK87                                             | DEMC5P1PVK87                                          | DEMD5P1PVK87                                          | DEMG5P1PVK87                                       |
| DA         | 7W2    | DAMP7P2PVK87                                             | DAMC7P2PVK87                                          | DAMD7P2PVK87                                          | DAMG7P2PVK87                                       |
| DA         | 11W1   | DAMP11P1PVK87                                            | DAMC11P1PVK87                                         | DAMD11P1PVK87                                         | DAMG11P1PVK87                                      |
| DA         | 3W3    | DAMP3P3PVK87                                             | DAMC3P3PVK87                                          | DAMD3P3PVK87                                          | DAMG3P3PVK87                                       |
| DA         | 3WK3♣  | DAMP3PK3PVK87TM                                          | DAMC3PK3PVK87TM                                       | DAMD3PK3PVK87TM                                       | DAMG3PK3PVK87TM                                    |
| DB         | 5W5    | DBMP5P5PVK87                                             | DBMC5P5PVK87                                          | DBMD5P5PVK87                                          | DBMG5P5PVK87                                       |
| DB         | 9W4    | DBMP9P4PVK87                                             | DBMC9P4PVK87                                          | DBMD9P4PVK87                                          | DBMG9P4PVK87                                       |
| DB         | 13W3   | DBMP13P3PVK87                                            | DBMC13P3PVK87                                         | DBMD13P3PVK87                                         | DBMG13P3PVK87                                      |
| DB         | 17W2   | DBMP17P2PVK87                                            | DBMC17P2PVK87                                         | DBMD17P2PVK87                                         | DBMG17P2PVK87                                      |
| DB         | 21W1   | DBMP21P1PVK87                                            | DBMC21P1PVK87                                         | DBMD21P1PVK87                                         | DBMG21P1PVK87                                      |
| DC         | 8W8    | DCMP8P8PVK87                                             | DCMC8P8PVK87                                          | DCMD8P8PVK87                                          | DCMG8P8PVK87                                       |
| DC         | 13W6   | DCMP13P6PVK87                                            | DCMC13P6PVK87                                         | DCMD13P6PVK87                                         | DCMG13P6PVK87                                      |
| DC         | 17W5   | DCMP17P5PVK87                                            | DCMC17P5PVK87                                         | DCMD17P5PVK87                                         | DCMG17P5PVK87                                      |
| DC         | 21WA4  | DCMP21PA4PVK87                                           | DCMC21PA4PVK87                                        | DCMD21PA4PVK87                                        | DCMG21PA4PVK87                                     |
| DC         | 25W3   | DCMP25P3PVK87                                            | DCMC25P3PVK87                                         | DCMD25P3PVK87                                         | DCMG25P3PVK87                                      |
| DC         | 27W2   | DCMP27P2PVK87                                            | DCMC27P2PVK87                                         | DCMD27P2PVK87                                         | DCMG27P2PVK87                                      |

For M3 threads replace MP with MS, MC with ML, MD with MO, MG with MJ.

Notes: For tin plated PC tails add A226 (signal contacts only). Example: DEMPS1PVK87A226

For performance class 2 substitute K127 for K87. Example: DEMPS1PVK127

♣ Keyed.



Screw lock, boardlock, and signal contacts  
removed for clarity



Screw lock, boardlock, and high power contact  
removed for clarity

Note: ♥ Dimension varies with alternate bracket configuration, see Reader's Resource page 226.

## Dimensions

| Shell Size | A             | B             | C             | D            | E            | F            | W              | W            | L            |
|------------|---------------|---------------|---------------|--------------|--------------|--------------|----------------|--------------|--------------|
| DE         | ±0.38 (.015)  | ±0.13 (.005)  | ±0.13 (.005)  | ±0.13 (.005) | ±0.38 (.015) | ±0.25 (.010) | ±0.368 (.0145) | ±0.41 (.016) | ±0.25 (.010) |
| DA         | 30.81 (1.213) | 16.92 (.666)  | 24.99 (.984)  | 8.36 (.329)  | 12.55 (.494) | 10.72 (.422) | 6.693 (.2635)  | —            | 0.76 (.030)  |
| DB         | 39.14 (1.541) | 25.25 (.994)  | 33.32 (1.312) | 8.36 (.329)  | 12.55 (.494) | 10.72 (.422) | 6.693 (.2635)  | —            | 0.76 (.030)  |
| DB         | 53.04 (2.088) | 38.96 (1.534) | 47.04 (1.852) | 8.36 (.329)  | 12.55 (.494) | 10.82 (.426) | —              | 6.84 (.269)  | 0.99 (.039)  |
| DC         | 69.32 (2.729) | 55.42 (2.182) | 63.50 (2.500) | 8.36 (.329)  | 12.55 (.494) | 10.82 (.426) | —              | 6.84 (.269)  | 0.99 (.039)  |

♦ Connector footprint measured from the front shell.

♦♦ Connector footprint measured from the rear shell.

## 40 A High Power 90° — European Footprint 10,2♦ or 9,4 mm♦♦ (Sizes DE-DC)

## Receptacle



## Reader's Resource

For contact cavity arrangements, see page 223.

For P.C. hole patterns, see pages 252-253.

For panel cutouts, see page 221.

For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.

## Part Numbers with Metal Bracket and Rivnut #4-40 UNC

| Shell Size | Layout | Part Number Without Screw Locks Without Boardlocks | Part Number Without Screw Locks With Boardlocks | Part Number With Screw Locks Without Boardlocks | Part Number With Screw Locks With Boardlocks |
|------------|--------|----------------------------------------------------|-------------------------------------------------|-------------------------------------------------|----------------------------------------------|
| DE         | 5W1    | DEMP5P1SVA197                                      | DEMC5P1SVA197                                   | DEMD5P1SVA197                                   | DEMG5P1SVA197                                |
| DA         | 7W2    | DAMP7P2SVA197                                      | DAMC7P2SVA197                                   | DAMD7P2SVA197                                   | DAMG7P2SVA197                                |
| DA         | 11W1   | DAMP11P1SVA197                                     | DAMC11P1SVA197                                  | DAMD11P1SVA197                                  | DAMG11P1SVA197                               |
| DA         | 3W3    | DAMP3P3SVA197                                      | DAMC3P3SVA197                                   | DAMD3P3SVA197                                   | DAMG3P3SVA197                                |
| DA         | 3WK3♣  | DAMP3PK3SVA197TM                                   | DAMC3PK3SVA197TM                                | DAMD3PK3SVA197TM                                | DAMG3PK3SVA197TM                             |
| DB         | 5W5    | DBMP5P5SVA197                                      | DBMC5P5SVA197                                   | DBMD5P5SVA197                                   | DBMG5P5SVA197                                |
| DB         | 9W4    | DBMP9P4SVA197                                      | DBMC9P4SVA197                                   | DBMD9P4SVA197                                   | DBMG9P4SVA197                                |
| DB         | 13W3   | DBMP13P3SVA197                                     | DBMC13P3SVA197                                  | DBMD13P3SVA197                                  | DBMG13P3SVA197                               |
| DB         | 17W2   | DBMP17P2SVA197                                     | DBMC17P2SVA197                                  | DBMD17P2SVA197                                  | DBMG17P2SVA197                               |
| DB         | 21W1   | DBMP21P1SVA197                                     | DBMC21P1SVA197                                  | DBMD21P1SVA197                                  | DBMG21P1SVA197                               |
| DC         | 8W8    | DCMP8P8SVA197                                      | DCMC8P8SVA197                                   | DCMD8P8SVA197                                   | DCMG8P8SVA197                                |
| DC         | 13W6   | DCMP13P6SVA197                                     | DCMC13P6SVA197                                  | DCMD13P6SVA197                                  | DCMG13P6SVA197                               |
| DC         | 17W5   | DCMP17P5SVA197                                     | DCMC17P5SVA197                                  | DCMD17P5SVA197                                  | DCMG17P5SVA197                               |
| DC         | 21WA4  | DCMP21PA4SVA197                                    | DCMC21PA4SVA197                                 | DCMD21PA4SVA197                                 | DCMG21PA4SVA197                              |
| DC         | 25W3   | DCMP25P3SVA197                                     | DCMC25P3SVA197                                  | DCMD25P3SVA197                                  | DCMG25P3SVA197                               |
| DC         | 27W2   | DCMP27P2SVA197                                     | DCMC27P2SVA197                                  | DCMD27P2SVA197                                  | DCMG27P2SVA197                               |

For M3 threads replace MP with MS, MC with ML, MD with MO, MG with MJ.

Notes: For performance class 2 substitute K126 for A197. Example: DEMP5P1SVK126

♣ Keyed.



Note: ♥ Dimension varies with alternate bracket configuration, see Reader's Resource page 226.

## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,33 (.643)      | 24,99 (.984)      | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,38 (1.511)     | 47,04 (1.852)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DC         | 69,32 (2.729)     | 54,84 (2.159)     | 63,50 (2.500)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |

- ♦ Connector footprint measured from the front shell.
- ♦♦ Connector footprint measured from the rear shell.

## 40 A High Power Straight — Standard PC Tails (Sizes DE-DC)

## Plug



## Reader's Resource

For contact cavity arrangements,  
see page 222.

For P.C. hole patterns, see pages 254-255.

For panel cutouts, see page 221.

## Part Numbers with Standoff #4-40 UNC

| Shell Size | Layout | Part Number<br>Without Screw Locks<br>Without Boardlocks | Part Number<br>Without Screw Locks<br>With Boardlocks | Part Number<br>With Screw Locks<br>With Boardlocks |
|------------|--------|----------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|
| DE         | 5W1    | DEM5H1PNK87                                              | DEM5H1PNK87                                           | DEM5H1PNK87                                        |
| DA         | 7W2    | DAMV7H2PNK87                                             | DAMZ7H2PNK87                                          | DAMN7H2PNK87                                       |
| DA         | 11W1   | DAMV11H1PNK87                                            | DAMZ11H1PNK87                                         | DAMN11H1PNK87                                      |
| DA         | 3W3    | DAMV3H3PNK87                                             | DAMZ3H3PNK87                                          | DAMN3H3PNK87                                       |
| DA         | 3WK3♣  | DAMV3HK3PNK87TM                                          | DAMZ3HK3PNK87TM                                       | DAMN3HK3PNK87TM                                    |
| DB         | 5W5    | DBMV5H5PNK87                                             | DBMZ5H5PNK87                                          | DBMN5H5PNK87                                       |
| DB         | 9W4    | DBMV9H4PNK87                                             | DBMZ9H4PNK87                                          | DBMN9H4PNK87                                       |
| DB         | 13W3   | DBMV13H3PNK87                                            | DBMZ13H3PNK87                                         | DBMN13H3PNK87                                      |
| DB         | 17W2   | DBMV17H2PNK87                                            | DBMZ17H2PNK87                                         | DBMN17H2PNK87                                      |
| DB         | 21W1   | DBMV21H1PNK87                                            | DBMZ21H1PNK87                                         | DBMN21H1PNK87                                      |
| DC         | 8W8    | DCMV8H8PNK87                                             | DCMZ8H8PNK87                                          | DCMN8H8PNK87                                       |
| DC         | 13W6   | DCMV13H6PNK87                                            | DCMZ13H6PNK87                                         | DCMN13H6PNK87                                      |
| DC         | 17W5   | DCMV17H5PNK87                                            | DCMZ17H5PNK87                                         | DCMN17H5PNK87                                      |
| DC         | 21WA4  | DCMV21HA4PNK87                                           | DCMZ21HA4PNK87                                        | DCMN21HA4PNK87                                     |
| DC         | 25W3   | DCMV25H3PNK87                                            | DCMZ25H3PNK87                                         | DCMN25H3PNK87                                      |
| DC         | 27W2   | DCMV27H2PNK87                                            | DCMZ27H2PNK87                                         | DCMN27H2PNK87                                      |

Note: For contacts with 30 microinches gold substitute K127 for K87. Example: DEM5H1PNK127

For DD shell sizes, see page 68.

♣ Keyed.



Screw lock, boardlock and high power contact removed for clarity

## Dimensions

| Shell Size | A<br>±0.38 (.015) | B<br>±0.13 (.005) | C<br>±0.13 (.005) | D<br>±0.13 (.005) | E<br>±0.38 (.015) | F<br>±0.25 (.010) | W<br>±0.368 (.0145) | W<br>±0.41 (.016) | L<br>±0.25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|-------------------|
| DE         | 30.81 (1.213)     | 16.92 (.666)      | 24.99 (.984)      | 8.36 (.329)       | 12.55 (.494)      | 10.72 (.422)      | 6.693 (.2635)       | —                 | 0.76 (.030)       |
| DA         | 39.14 (1.541)     | 25.25 (.994)      | 33.32 (1.312)     | 8.36 (.329)       | 12.55 (.494)      | 10.72 (.422)      | 6.693 (.2635)       | —                 | 0.76 (.030)       |
| DB         | 53.04 (2.088)     | 38.96 (1.534)     | 47.04 (1.852)     | 8.36 (.329)       | 12.55 (.494)      | 10.82 (.426)      | —                   | 6.84 (.269)       | 0.99 (.039)       |
| DC         | 69.32 (2.729)     | 55.42 (2.182)     | 63.50 (2.500)     | 8.36 (.329)       | 12.55 (.494)      | 10.82 (.426)      | —                   | 6.84 (.269)       | 0.99 (.039)       |

## 40 A High Power Straight — Standard PC Tails (Sizes DE-DC)

## Receptacle



## Reader's Resource

For contact cavity arrangements,  
see page 223.

For P.C. hole patterns, see pages 257-258.

For panel cutouts, see page 221.

## Part Numbers with Standoff #4-40 UNC

| Shell Size | Layout | Part Number<br>Without Screw Locks<br>Without Boardlocks | Part Number<br>Without Screw Locks<br>With Boardlocks | Part Number<br>With Screw Locks<br>With Boardlocks |
|------------|--------|----------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|
| DE         | 5W1    | DEMV5H1SNA197                                            | DEMZ5H1SNA197                                         | DEMN5H1SNA197                                      |
| DA         | 7W2    | DAMV7H2SNA197                                            | DAMZ7H2SNA197                                         | DAMN7H2SNA197                                      |
| DA         | 11W1   | DAMV11H1SNA197                                           | DAMZ11H1SNA197                                        | DAMN11H1SNA197                                     |
| DA         | 3W3    | DAMV3H3SNA197                                            | DAMZ3H3SNA197                                         | DAMN3H3SNA197                                      |
| DA         | 3WK3♣  | DAMV3HK3SNA197TM                                         | DAMZ3HK3SNA197TM                                      | DAMN3HK3SNA197TM                                   |
| DB         | 5W5    | DBMV5H5SNA197                                            | DBMZ5H5SNA197                                         | DBMN5H5SNA197                                      |
| DB         | 9W4    | DBMV9H4SNA197                                            | DBMZ9H4SNA197                                         | DBMN9H4SNA197                                      |
| DB         | 13W3   | DBMV13H3SNA197                                           | DBMZ13H3SNA197                                        | DBMN13H3SNA197                                     |
| DB         | 17W2   | DBMV17H2SNA197                                           | DBMZ17H2SNA197                                        | DBMN17H2SNA197                                     |
| DB         | 21W1   | DBMV21H1SNA197                                           | DBMZ21H1SNA197                                        | DBMN21H1SNA197                                     |
| DC         | 8W8    | DCMV8H8SNA197                                            | DCMZ8H8SNA197                                         | DCMN8H8SNA197                                      |
| DC         | 13W6   | DCMV13H6SNA197                                           | DCMZ13H6SNA197                                        | DCMN13H6SNA197                                     |
| DC         | 17W5   | DCMV17H5SNA197                                           | DCMZ17H5SNA197                                        | DCMN17H5SNA197                                     |
| DC         | 21WA4  | DCMV21HA4SNA197                                          | DCMZ21HA4SNA197                                       | DCMN21HA4SNA197                                    |
| DC         | 25W3   | DCMV25H3SNA197                                           | DCMZ25H3SNA197                                        | DCMN25H3SNA197                                     |
| DC         | 27W2   | DCMV27H2SNA197                                           | DCMZ27H2SNA197                                        | DCMN27H2SNA197                                     |

Note: For contacts with 30 microinches gold substitute K126 for A197. Example: DEMV5H1SNK126

For DD shell sizes, see page 69.

♣ Keyed.



Screw lock, boardlock and high power contact removed for clarity

## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,33 (.643)      | 24,99 (.984)      | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,38 (1.511)     | 47,04 (1.852)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DC         | 69,32 (2.729)     | 54,84 (2.159)     | 63,50 (2.500)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |

40 A High Power Straight — Standard PC Tails (Size DD)

Plug



Part Numbers with Standoff #4-40 UNC

| Shell Size | Layout | Part Number                               |                                        |                                     |
|------------|--------|-------------------------------------------|----------------------------------------|-------------------------------------|
|            |        | Without Screw Locks<br>Without Boardlocks | Without Screw Locks<br>With Boardlocks | With Screw Locks<br>With Boardlocks |
| DD         | 24W7   | DDMV24H7PNK87                             | DDMZ24H7PNK87                          | DDMN24H7PNK87                       |
| DD         | 36W4   | DDMV36H4PNK87                             | DDMZ36H4PNK87                          | DDMN36H4PNK87                       |
| DD         | 43W2   | DDMV43H2PNK87                             | DDMZ43H2PNK87                          | DDMN43H2PNK87                       |
| DD         | 47W1   | DDMV47H1PNK87                             | DDMZ47H1PNK87                          | DDMN47H1PNK87                       |

Note: For contacts with 30 microinches gold substitute K127 for K87. Example: DDMV24H7PNK127

Reader's Resource  
For contact cavity arrangements,  
see page 222.  
For P.C. hole patterns, see page 256.  
For panel cutouts, see page 221.



Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,41 (.016) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DD         | 66,93 (2.635)     | 52,81 (2.079)     | 61,11 (2.406)     | 11,07 (.436)      | 15,37 (.605)      | 10,82 (.426)      | 6,84 (.269)       | 0,99 (.039)       |

## 40 A High Power Straight — Standard PC Tails (Size DD)

## Receptacle



## Part Numbers with Standoff #4-40 UNC

| Shell Size | Layout | Part Number Without Screw Locks Without Boardlocks | Part Number Without Screw Locks With Boardlocks | Part Number With Screw Locks With Boardlocks |
|------------|--------|----------------------------------------------------|-------------------------------------------------|----------------------------------------------|
| DD         | 24W7   | DDMV24H7SNA197                                     | DDMZ24H7SNA197                                  | DDMN24H7SNA197                               |
| DD         | 36W4   | DDMV36H4SNA197                                     | DDMZ36H4SNA197                                  | DDMN36H4SNA197                               |
| DD         | 43W2   | DDMV43H2SNA197                                     | DDMZ43H2SNA197                                  | DDMN43H2SNA197                               |
| DD         | 47W1   | DDMV47H1SNA197                                     | DDMZ47H1SNA197                                  | DDMN47H1SNA197                               |

Note: For contacts with 30 microinches gold substitute K126 for A197. Example: DDMV24H7SNK126

## Reader's Resource

For contact cavity arrangements,  
see page 223.

For P.C. hole patterns, see page 259.

For panel cutouts, see page 221.



## Dimensions

| Shell Size | A             | B             | C             | D            | E            | F            | W            | L            |
|------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|
| DD         | ±0.38 (.015)  | ±0.13 (.005)  | ±0.13 (.005)  | ±0.13 (.005) | ±0.38 (.015) | ±0.25 (.010) | ±0.38 (.015) | ±0.25 (.010) |
| DD         | 66.93 (2.635) | 52.42 (2.064) | 61.11 (2.406) | 10.74 (.423) | 15.37 (.605) | 10.90 (.429) | 6.94 (.273)  | 0.76 (.030)  |

## 40 A High Power Straight — European PC Tails (Sizes DE-DC)

## Plug



## Reader's Resource

For contact cavity arrangements,  
see page 222.

For P.C. hole patterns, see pages 254-255.

For panel cutouts, see page 221.

## Part Numbers with Standoff #4-40 UNC

| Shell Size | Layout | Part Number<br>Without Screw Locks<br>Without Boardlocks | Part Number<br>Without Screw Locks<br>With Boardlocks | Part Number<br>With Screw Locks<br>With Boardlocks |
|------------|--------|----------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|
| DE         | 5W1    | DEM5H1PYK87                                              | DEM5H1PYK87                                           | DEMN5H1PYK87                                       |
| DA         | 7W2    | DAMV7H2PYK87                                             | DAMZ7H2PYK87                                          | DAMN7H2PYK87                                       |
| DA         | 11W1   | DAMV11H1PYK87                                            | DAMZ11H1PYK87                                         | DAMN11H1PYK87                                      |
| DA         | 3W3    | DAMV3H3PYK87                                             | DAMZ3H3PYK87                                          | DAMN3H3PYK87                                       |
| DA         | 3WK3♣  | DAMV3HK3PYK87TM                                          | DAMZ3HK3PYK87TM                                       | DAMN3HK3PYK87TM                                    |
| DB         | 5W5    | DBMV5H5PYK87                                             | DBMZ5H5PYK87                                          | DBMN5H5PYK87                                       |
| DB         | 9W4    | DBMV9H4PYK87                                             | DBMZ9H4PYK87                                          | DBMN9H4PYK87                                       |
| DB         | 13W3   | DBMV13H3PYK87                                            | DBMZ13H3PYK87                                         | DBMN13H3PYK87                                      |
| DB         | 17W2   | DBMV17H2PYK87                                            | DBMZ17H2PYK87                                         | DBMN17H2PYK87                                      |
| DB         | 21W1   | DBMV21H1PYK87                                            | DBMZ21H1PYK87                                         | DBMN21H1PYK87                                      |
| DC         | 8W8    | DCMV8H8PYK87                                             | DCMZ8H8PYK87                                          | DCMN8H8PYK87                                       |
| DC         | 13W6   | DCMV13H6PYK87                                            | DCMZ13H6PYK87                                         | DCMN13H6PYK87                                      |
| DC         | 17W5   | DCMV17H5PYK87                                            | DCMZ17H5PYK87                                         | DCMN17H5PYK87                                      |
| DC         | 21WA4  | DCMV21HA4PYK87                                           | DCMZ21HA4PYK87                                        | DCMN21HA4PYK87                                     |
| DC         | 25W3   | DCMV25H3PYK87                                            | DCMZ25H3PYK87                                         | DCMN25H3PYK87                                      |
| DC         | 27W2   | DCMV27H2PYK87                                            | DCMZ27H2PYK87                                         | DCMN27H2PYK87                                      |

For M3 threads replace MV with MT, MZ with MQ, MN with MU.

Notes: For tin plated PC tails add A226 (signal contacts only). Example: DEMV5H1PYK87A226

For performance class 2 substitute K127 for K87. Example: DEMV5H1PYK127

For DD shell sizes, see page 72.

♣ Keyed.



Screw lock, boardlock, and high power contact  
removed for clarity

## Dimensions

| Shell Size | A             | B             | C             | D            | E            | F            | W              | W            | L            |
|------------|---------------|---------------|---------------|--------------|--------------|--------------|----------------|--------------|--------------|
|            | ±0.38 (.015)  | ±0.13 (.005)  | ±0.13 (.005)  | ±0.13 (.005) | ±0.38 (.015) | ±0.25 (.010) | ±0.368 (.0145) | ±0.41 (.016) | ±0.25 (.010) |
| DE         | 30.81 (1.213) | 16.92 (.666)  | 24.99 (.984)  | 8.36 (.329)  | 12.55 (.494) | 10.72 (.422) | 6.693 (.2635)  | —            | 0.76 (.030)  |
| DA         | 39.14 (1.541) | 25.25 (.994)  | 33.32 (1.312) | 8.36 (.329)  | 12.55 (.494) | 10.72 (.422) | 6.693 (.2635)  | —            | 0.76 (.030)  |
| DB         | 53.04 (2.088) | 38.96 (1.534) | 47.04 (1.852) | 8.36 (.329)  | 12.55 (.494) | 10.82 (.426) | —              | 6.84 (.269)  | 0.99 (.039)  |
| DC         | 69.32 (2.729) | 55.42 (2.182) | 63.50 (2.500) | 8.36 (.329)  | 12.55 (.494) | 10.82 (.426) | —              | 6.84 (.269)  | 0.99 (.039)  |

## 40 A High Power Straight — European PC Tails (Sizes DE-DC)

## Receptacle



## Reader's Resource

For contact cavity arrangements,  
see page 223.

For P.C. hole patterns, see pages 257-258.

For panel cutouts, see page 221.

## Part Numbers with Standoff #4-40 UNC

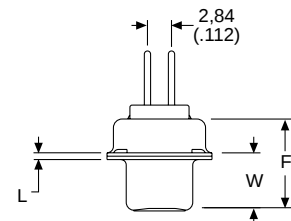
| Shell Size | Layout | Part Number<br>Without Screw Locks<br>Without Boardlocks | Part Number<br>Without Screw Locks<br>With Boardlocks | Part Number<br>With Screw Locks<br>With Boardlocks |
|------------|--------|----------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|
| DE         | 5W1    | DEMV5H1SYA197                                            | DEMZ5H1SYA197                                         | DEMN5H1SYA197                                      |
| DA         | 7W2    | DAMV7H2SYA197                                            | DAMZ7H2SYA197                                         | DAMN7H2SYA197                                      |
| DA         | 11W1   | DAMV11H1SYA197                                           | DAMZ11H1SYA197                                        | DAMN11H1SYA197                                     |
| DA         | 3W3    | DAMV3H3SYA197                                            | DAMZ3H3SYA197                                         | DAMN3H3SYA197                                      |
| DA         | 3WK3♣  | DAMV3HK3SYA197TM                                         | DAMZ3HK3SYA197TM                                      | DAMN3HK3SYA197TM                                   |
| DB         | 5W5    | DBMV5H5SYA197                                            | DBMZ5H5SYA197                                         | DBMN5H5SYA197                                      |
| DB         | 9W4    | DBMV9H4SYA197                                            | DBMZ9H4SYA197                                         | DBMN9H4SYA197                                      |
| DB         | 13W3   | DBMV13H3SYA197                                           | DBMZ13H3SYA197                                        | DBMN13H3SYA197                                     |
| DB         | 17W2   | DBMV17H2SYA197                                           | DBMZ17H2SYA197                                        | DBMN17H2SYA197                                     |
| DB         | 21W1   | DBMV21H1SYA197                                           | DBMZ21H1SYA197                                        | DBMN21H1SYA197                                     |
| DC         | 8W8    | DCMV8H8SYA197                                            | DCMZ8H8SYA197                                         | DCMN8H8SYA197                                      |
| DC         | 13W6   | DCMV13H6SYA197                                           | DCMZ13H6SYA197                                        | DCMN13H6SYA197                                     |
| DC         | 17W5   | DCMV17H5SYA197                                           | DCMZ17H5SYA197                                        | DCMN17H5SYA197                                     |
| DC         | 21WA4  | DCMV21HA4SYA197                                          | DCMZ21HA4SYA197                                       | DCMN21HA4SYA197                                    |
| DC         | 25W3   | DCMV25H3SYA197                                           | DCMZ25H3SYA197                                        | DCMN25H3SYA197                                     |
| DC         | 27W2   | DCMV27H2SYA197                                           | DCMZ27H2SYA197                                        | DCMN27H2SYA197                                     |

For M3 threads replace MV with MT, MZ with MQ, MN with MU.

Notes: For performance class 2 substitute K126 for A197. Example: DEMV5H1SYK126

For DD shell sizes, see page 73.

♣ Keyed.



Screw lock, boardlock, and high power contact  
removed for clarity

## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,33 (.643)      | 24,99 (.984)      | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,38 (1.511)     | 47,04 (1.852)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DC         | 69,32 (2.729)     | 54,84 (2.159)     | 63,50 (2.500)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |

40 A High Power Straight — European PC Tails (Size DD)

Plug



Part Numbers with Standoff #4-40 UNC

| Shell Size | Layout | Part Number                               | Part Number                            | Part Number                         |
|------------|--------|-------------------------------------------|----------------------------------------|-------------------------------------|
|            |        | Without Screw Locks<br>Without Boardlocks | Without Screw Locks<br>With Boardlocks | With Screw Locks<br>With Boardlocks |
| DD         | 24W7   | DDMV24H7PYK87                             | DDMZ24H7PYK87                          | DDMN24H7PYK87                       |
| DD         | 36W4   | DDMV36H4PYK87                             | DDMZ36H4PYK87                          | DDMN36H4PYK87                       |
| DD         | 43W2   | DDMV43H2PYK87                             | DDMZ43H2PYK87                          | DDMN43H2PYK87                       |
| DD         | 47W1   | DDMV47H1PYK87                             | DDMZ47H1PYK87                          | DDMN47H1PYK87                       |

For M3 threads replace MV with MT, MZ with MQ, MN with MU.  
Notes: For tin plated PC tails add A226 (signal contacts only). Example DDMV24H7PYK87A226  
For performance class 2 substitute K127 for K87. Example: DDMV24H7PYK127

Reader's Resource  
For contact cavity arrangements,  
see page 222.  
For P.C. hole patterns, see page 256.  
For panel cutouts, see page 221.



Dimensions

|            | A             | B             | C             | D            | E            | F            | W            | L            |
|------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|
| Shell Size | ±0,38 (.015)  | ±0,13 (.005)  | ±0,13 (.005)  | ±0,13 (.005) | ±0,38 (.015) | ±0,25 (.010) | ±0,41 (.016) | ±0,25 (.010) |
| DD         | 66,93 (2.635) | 52,81 (2.079) | 61,11 (2.406) | 11,07 (.436) | 15,37 (.605) | 10,82 (.426) | 6,84 (.269)  | 0,99 (.039)  |

40 A High Power Straight — European PC Tails (Size DD)

Receptacle



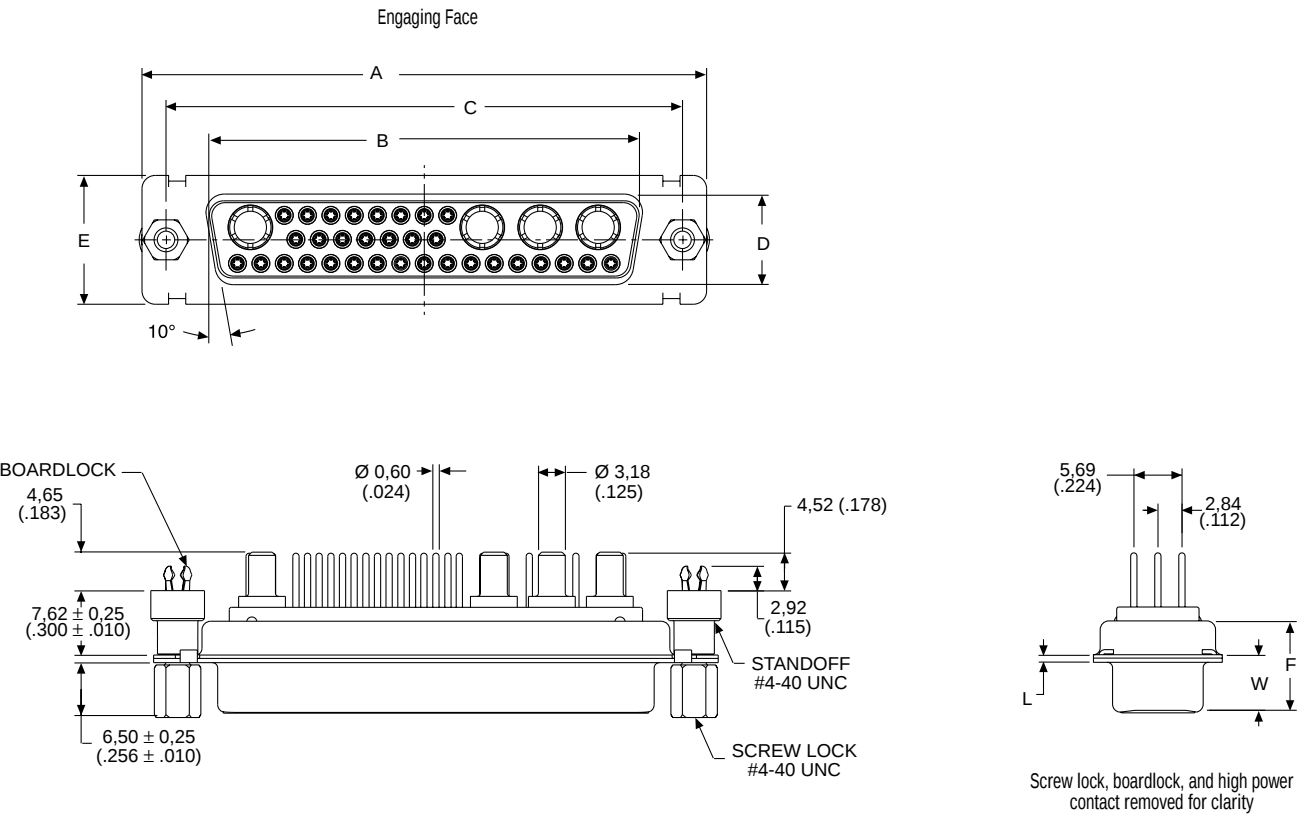
Part Numbers with Standoff #4-40 UNC

| Shell Size | Layout | Part Number                               | Part Number                            | Part Number                         |
|------------|--------|-------------------------------------------|----------------------------------------|-------------------------------------|
|            |        | Without Screw Locks<br>Without Boardlocks | Without Screw Locks<br>With Boardlocks | With Screw Locks<br>With Boardlocks |
| DD         | 24W7   | DDMV24H7SYA197                            | DDMZ24H7SYA197                         | DDMN24H7SYA197                      |
| DD         | 36W4   | DDMV36H4SYA197                            | DDMZ36H4SYA197                         | DDMN36H4SYA197                      |
| DD         | 43W2   | DDMV43H2SYA197                            | DDMZ43H2SYA197                         | DDMN43H2SYA197                      |
| DD         | 47W1   | DDMV47H1SYA197                            | DDMZ47H1SYA197                         | DDMN47H1SYA197                      |

For M3 threads replace MV with MT, MZ with MQ, MN with MU.  
Note: For performance class 2 substitute K126 for A197. Example: DDMV24H7SYK126

Reader's Resource

- For contact cavity arrangements, see page 223.
- For P.C. hole patterns, see page 259.
- For panel cutouts, see page 221.



Dimensions

| Shell Size | A<br>±0.38 (.015) | B<br>±0.13 (.005) | C<br>±0.13 (.005) | D<br>±0.13 (.005) | E<br>±0.38 (.015) | F<br>±0.25 (.010) | W<br>±0.38 (.015) | L<br>±0.25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DD         | 66.93 (2.635)     | 52.42 (2.064)     | 61.11 (2.406)     | 10.74 (.423)      | 15.37 (.605)      | 10.90 (.429)      | 6.94 (.273)       | 0.76 (.030)       |

## 90° PC Tail — European Footprint 10,2♦ or 9,4 mm♦♦ (Sizes DE-DD)

## Plug



## Reader's Resource

For contact cavity arrangements, see page 222.  
 For P.C. hole patterns, see pages 260-262.  
 For panel cutouts, see page 221.  
 For hardware views (European), see page 227.

## Part Numbers

| Shell Size | Layout | Part Number Without Hardware | Part Number Metal Bracket With #4-40 Nut |
|------------|--------|------------------------------|------------------------------------------|
| DE         | 5W1    | DEM-5W1P-1A0N-K87            | DEM-5W1P-1A7N-K87                        |
| DA         | 7W2    | DAM-7W2P-1A0N-K87            | DAM-7W2P-1A7N-K87                        |
| DA         | 11W1   | DAM-11W1P-1A0N-K87           | DAM-11W1P-1A7N-K87                       |
| DA         | 3W3    | DAM-3W3P-1A0N-K87            | DAM-3W3P-1A7N-K87                        |
| DA         | 3WK3♣  | DAM-3WK3P-1A0N-K87           | DAM-3WK3P-1A7N-K87                       |
| DB         | 5W5    | DBM-5W5P-1A0N-K87            | DBM-5W5P-1A7N-K87                        |
| DB         | 9W4    | DBM-9W4P-1A0N-K87            | DBM-9W4P-1A7N-K87                        |
| DB         | 13W3   | DBM-13W3P-1A0N-K87           | DBM-13W3P-1A7N-K87                       |
| DB         | 17W2   | DBM-17W2P-1A0N-K87           | DBM-17W2P-1A7N-K87                       |
| DB         | 21W1   | DBM-21W1P-1A0N-K87           | DBM-21W1P-1A7N-K87                       |
| DC         | 8W8    | DCM-8W8P-1A0N-K87            | DCM-8W8P-1A7N-K87                        |
| DC         | 13W6   | DCM-13W6P-1A0N-K87           | DCM-13W6P-1A7N-K87                       |
| DC         | 17W5   | DCM-17W5P-1A0N-K87           | DCM-17W5P-1A7N-K87                       |
| DC         | 21W4   | DCM-21W4P-1A0N-K87           | DCM-21W4P-1A7N-K87                       |
| DC         | 25W3   | DCM-25W3P-1A0N-K87           | DCM-25W3P-1A7N-K87                       |
| DC         | 27W2   | DCM-27W2P-1A0N-K87           | DCM-27W2P-1A7N-K87                       |
| DD         | 24W7   | DDM-24W7P-1A0N-K87           | DDM-24W7P-1A7N-K87                       |
| DD         | 36W4   | DDM-36W4P-1A0N-K87           | DDM-36W4P-1A7N-K87                       |
| DD         | 43W2   | DDM-43W2P-1A0N-K87           | DDM-43W2P-1A7N-K87                       |
| DD         | 47W1   | DDM-47W1P-1A0N-K87           | DDM-47W1P-1A7N-K87                       |

Note: Performance class 3 standard, for performance class 2 add -A191. Example: DEM-5W1P-1A0N-A191-K87

♣ Keyed.



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,368 (.0145) | W<br>±0,41 (.016) | K<br>±0,317 (.0125) | K<br>±0,25 (.010) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|---------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,92 (.666)      | 24,99 (.984)      | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 1,206 (.0475)       | —                 | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 25,25 (.994)      | 33,32 (1.312)     | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 1,206 (.0475)       | —                 | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,96 (1.534)     | 47,04 (1.852)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | —                   | 1,52 (.060)       | 0,99 (.039)       |
| DC         | 69,32 (2.729)     | 55,42 (2.182)     | 63,50 (2.500)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | —                   | 1,52 (.060)       | 0,99 (.039)       |
| DD         | 66,93 (2.635)     | 52,81 (2.079)     | 61,11 (2.406)     | 11,07 (.436)      | 15,37 (.605)      | 10,82 (.426)      | —                   | 6,84 (.269)       | —                   | 1,52 (.060)       | 0,99 (.039)       |

♦ Connector footprint measured from the front shell.

♦♦ Connector footprint measured from the rear shell.

## 90° PC Tail — European Footprint 10,2♦ or 9,4 mm♦♦ (Sizes DE-DD)

## Receptacle



## Part Numbers

| Shell Size | Layout | Part Number Without Hardware | Part Number Metal Bracket With #4-40 Nut |
|------------|--------|------------------------------|------------------------------------------|
| DE         | 5W1    | DEM-5W1S-1A0N-A197           | DEM-5W1S-1A7N-A197                       |
| DA         | 7W2    | DAM-7W2S-1A0N-A197           | DAM-7W2S-1A7N-A197                       |
| DA         | 11W1   | DAM-11W1S-1A0N-A197          | DAM-11W1S-1A7N-A197                      |
| DA         | 3W3    | DAM-3W3S-1A0N-A197           | DAM-3W3S-1A7N-A197                       |
| DA         | 3WK3♣  | DAM-3WK3S-1A0N-A197          | DAM-3WK3S-1A7N-A197                      |
| DB         | 5W5    | DBM-5W5S-1A0N-A197           | DBM-5W5S-1A7N-A197                       |
| DB         | 9W4    | DBM-9W4S-1A0N-A197           | DBM-9W4S-1A7N-A197                       |
| DB         | 13W3   | DBM-13W3S-1A0N-A197          | DBM-13W3S-1A7N-A197                      |
| DB         | 17W2   | DBM-17W2S-1A0N-A197          | DBM-17W2S-1A7N-A197                      |
| DB         | 21W1   | DBM-21W1S-1A0N-A197          | DBM-21W1S-1A7N-A197                      |
| DC         | 8W8    | DCM-8W8S-1A0N-A197           | DCM-8W8S-1A7N-A197                       |
| DC         | 13W6   | DCM-13W6S-1A0N-A197          | DCM-13W6S-1A7N-A197                      |
| DC         | 17W5   | DCM-17W5S-1A0N-A197          | DCM-17W5S-1A7N-A197                      |
| DC         | 21WA4  | DCM-21WA4S-1A0N-A197         | DCM-21WA4S-1A7N-A197                     |
| DC         | 25W3   | DCM-25W3S-1A0N-A197          | DCM-25W3S-1A7N-A197                      |
| DC         | 27W2   | DCM-27W2S-1A0N-A197          | DCM-27W2S-1A7N-A197                      |
| DD         | 24W7   | DDM-24W7S-1A0N-A197          | DDM-24W7S-1A7N-A197                      |
| DD         | 36W4   | DDM-36W4S-1A0N-A197          | DDM-36W4S-1A7N-A197                      |
| DD         | 43W2   | DDM-43W2S-1A0N-A197          | DDM-43W2S-1A7N-A197                      |
| DD         | 47W1   | DDM-47W1S-1A0N-A197          | DDM-47W1S-1A7N-A197                      |

Note: Performance class 3 standard, for performance class 2 add -A191. Example: DEM-5W1S-1A0N-A191-A197

♣ Keyed.

## Reader's Resource

For contact cavity arrangements, see page 223.

For P.C. hole patterns, see pages 263-265.

For panel cutouts, see page 221.

For hardware views (European), see page 227.



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) | K<br>±0,318 (.0125) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,33 (.643)      | 24,99 (.984)      | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,38 (1.511)     | 47,04 (1.852)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DC         | 69,32 (2.729)     | 54,84 (2.159)     | 63,50 (2.500)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DD         | 66,93 (2.635)     | 52,42 (2.064)     | 61,11 (2.406)     | 10,74 (.423)      | 15,37 (.605)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |

- ♦ Connector footprint measured from the front shell.
- ♦♦ Connector footprint measured from the rear shell.

## Straight PC Tails — European (Sizes DE-DD)

## Plug



## Reader's Resource

For contact cavity arrangements, see page 222.

For P.C. hole patterns, see pages 266-268.

For panel cutouts, see page 221.

For hardware views (European), see page 227.

## Part Numbers

| Shell Size | Layout | Part Number<br>X<br>4,60 (.181) | Part Number<br>X<br>6,05 (.238) |
|------------|--------|---------------------------------|---------------------------------|
| DE         | 5W1    | DEM-5W1P-OL2-K87                | DEM-5W1P-OL4-K87                |
| DA         | 7W2    | DAM-7W2P-OL2-K87                | DAM-7W2P-OL4-K87                |
| DA         | 11W1   | DAM-11W1P-OL2-K87               | DAM-11W1P-OL4-K87               |
| DA         | 3W3    | DAM-3W3P-OL2-K87                | DAM-3W3P-OL4-K87                |
| DA         | 3WK3♣  | DAM-3WK3P-OL2-K87               | DAM-3WK3P-OL4-K87               |
| DB         | 5W5    | DBM-5W5P-OL2-K87                | DBM-5W5P-OL4-K87                |
| DB         | 9W4    | DBM-9W4P-OL2-K87                | DBM-9W4P-OL4-K87                |
| DB         | 13W3   | DBM-13W3P-OL2-K87               | DBM-13W3P-OL4-K87               |
| DB         | 17W2   | DBM-17W2P-OL2-K87               | DBM-17W2P-OL4-K87               |
| DB         | 21W1   | DBM-21W1P-OL2-K87               | DBM-21W1P-OL4-K87               |
| DC         | 8W8    | DCM-8W8P-OL2-K87                | DCM-8W8P-OL4-K87                |
| DC         | 13W6   | DCM-13W6P-OL2-K87               | DCM-13W6P-OL4-K87               |
| DC         | 17W5   | DCM-17W5P-OL2-K87               | DCM-17W5P-OL4-K87               |
| DC         | 21WA4  | DCM-21WA4P-OL2-K87              | DCM-21WA4P-OL4-K87              |
| DC         | 25W3   | DCM-25W3P-OL2-K87               | DCM-25W3P-OL4-K87               |
| DC         | 27W2   | DCM-27W2P-OL2-K87               | DCM-27W2P-OL4-K87               |
| DD         | 24W7   | DDM-24W7P-OL2-K87               | DDM-24W7P-OL4-K87               |
| DD         | 36W4   | DDM-36W4P-OL2-K87               | DDM-36W4P-OL4-K87               |
| DD         | 43W2   | DDM-43W2P-OL2-K87               | DDM-43W2P-OL4-K87               |
| DD         | 47W1   | DDM-47W1P-OL2-K87               | DDM-47W1P-OL4-K87               |

Note: Performance class 3 standard, for performance class 2 add -A191. Example: DEM-5W1P-OL2-A191-K87

♣ Keyed.



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,368 (.0145) | W<br>±0,41 (.016) | K<br>±0,317 (.0125) | K<br>±0,25 (.010) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|---------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,92 (.666)      | 24,99 (.984)      | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 1,206 (.0475)       | —                 | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 25,25 (.994)      | 33,32 (1.312)     | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 1,206 (.0475)       | —                 | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,96 (1.534)     | 47,04 (1.852)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | —                   | 1,52 (.060)       | 0,99 (.039)       |
| DC         | 69,32 (2.729)     | 55,42 (2.182)     | 63,50 (2.500)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | —                   | 1,52 (.060)       | 0,99 (.039)       |
| DD         | 66,93 (2.635)     | 52,81 (2.079)     | 61,11 (2.406)     | 11,07 (.436)      | 15,37 (.605)      | 10,82 (.426)      | —                   | 6,84 (.269)       | —                   | 1,52 (.060)       | 0,99 (.039)       |

## Straight PC Tails — European (Sizes DE-DD)

## Receptacle



## Part Numbers

| Shell Size | Layout | Part Number<br>X<br>4.60 (.181) | Part Number<br>X<br>6.05 (.238) |
|------------|--------|---------------------------------|---------------------------------|
| DE         | 5W1    | DEM-5W1S-OL2-A197               | DEM-5W1S-OL4-A197               |
| DA         | 7W2    | DAM-7W2S-OL2-A197               | DAM-7W2S-OL4-A197               |
| DA         | 11W1   | DAM-11W1S-OL2-A197              | DAM-11W1S-OL4-A197              |
| DA         | 3W3    | DAM-3W3S-OL2-A197               | DAM-3W3S-OL4-A197               |
| DA         | 3WK3♣  | DAM-3WK3S-OL2-A197              | DAM-3WK3S-OL4-A197              |
| DB         | 5W5    | DBM-5W5S-OL2-A197               | DBM-5W5S-OL4-A197               |
| DB         | 9W4    | DBM-9W4S-OL2-A197               | DBM-9W4S-OL4-A197               |
| DB         | 13W3   | DBM-13W3S-OL2-A197              | DBM-13W3S-OL4-A197              |
| DB         | 17W2   | DBM-17W2S-OL2-A197              | DBM-17W2S-OL4-A197              |
| DB         | 21W1   | DBM-21W1S-OL2-A197              | DBM-21W1S-OL4-A197              |
| DC         | 8W8    | DCM-8W8S-OL2-A197               | DCM-8W8S-OL4-A197               |
| DC         | 13W6   | DCM-13W6S-OL2-A197              | DCM-13W6S-OL4-A197              |
| DC         | 17W5   | DCM-17W5S-OL2-A197              | DCM-17W5S-OL4-A197              |
| DC         | 21WA4  | DCM-21WA4S-OL2-A197             | DCM-21WA4S-OL4-A197             |
| DC         | 25W3   | DCM-25W3S-OL2-A197              | DCM-25W3S-OL4-A197              |
| DC         | 27W2   | DCM-27W2S-OL2-A197              | DCM-27W2S-OL4-A197              |
| DD         | 24W7   | DDM-24W7S-OL2-A197              | DDM-24W7S-OL4-A197              |
| DD         | 36W4   | DDM-36W4S-OL2-A197              | DDM-36W4S-OL4-A197              |
| DD         | 43W2   | DDM-43W2S-OL2-A197              | DDM-43W2S-OL4-A197              |
| DD         | 47W1   | DDM-47W1S-OL2-A197              | DDM-47W1S-OL4-A197              |

Note: Performance class 3 standard, for performance class 2 add -A191. Example: DEM-5W1S-OL2-A191-A197

♣ Keyed.

## Reader's Resource

For contact cavity arrangements,  
see page 223.

For P.C. hole patterns, see pages 269-271.

For panel cutouts, see page 221.

For hardware views (European),  
see page 227.



## DD Configuration



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) | K<br>±0,318 (.0125) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,33 (.643)      | 24,99 (.984)      | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,38 (1.511)     | 47,04 (1.852)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DC         | 69,32 (2.729)     | 54,84 (2.159)     | 63,50 (2.500)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DD         | 66,93 (2.635)     | 52,42 (2.064)     | 61,11 (2.406)     | 10,74 (.423)      | 15,37 (.605)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |

## Solder Cup (Sizes DE-DD)

## Plug



## Reader's Resource

For contact cavity arrangements,  
see page 222.

For panel cutouts, see page 221.

For hardware views (Standard), see page 226.

## Part Numbers

| Shell Size | Layout | Through Hole | Dual Float Mount | Clinch Nut #4-40 UNC |
|------------|--------|--------------|------------------|----------------------|
| DE         | 5W1    | DEM5W1PK87   | DEMY5W1PK87      | DEME5W1PK87          |
| DA         | 7W2    | DAM7W2PK87   | DAMY7W2PK87      | DAME7W2PK87          |
| DA         | 11W1   | DAM11W1PK87  | DAMY11W1PK87     | DAME11W1PK87         |
| DA         | 3W3    | DAM3W3PK87   | DAMY3W3PK87      | DAME3W3PK87          |
| DA         | 3WK3♣  | DAM3WK3PK87  | DAMY3WK3PK87     | DAME3WK3PK87         |
| DB         | 5W5    | DBMP5W5PK87  | DBMY5W5PK87      | DBME5W5PK87          |
| DB         | 9W4    | DBM9W4PK87   | DBMY9W4PK87      | DBME9W4PK87          |
| DB         | 13W3   | DBM13W3PK87  | DBMY13W3PK87     | DBME13W3PK87         |
| DB         | 17W2   | DBM17W2PK87  | DBMY17W2PK87     | DBME17W2PK87         |
| DB         | 21W1   | DBM21W1PK87  | DBMY21W1PK87     | DBME21W1PK87         |
| DC         | 8W8    | DCM8W8PK87   | DCMY8W8PK87      | DCME8W8PK87          |
| DC         | 13W6   | DCM13W6PK87  | DCMY13W6PK87     | DCME13W6PK87         |
| DC         | 17W5   | DCM17W5PK87  | DCMY17W5PK87     | DCME17W5PK87         |
| DC         | 21WA4  | DCM21WA4PK87 | DCMY21WA4PK87    | DCME21WA4PK87        |
| DC         | 25W3   | DCM25W3PK87  | DCMY25W3PK87     | DCME25W3PK87         |
| DC         | 27W2   | DCM27W2PK87  | DCMY27W2PK87     | DCME27W2PK87         |
| DD         | 24W7   | DDM24W7PK87  | DDMY24W7PK87     | DDME24W7PK87         |
| DD         | 36W4   | DDM36W4PK87  | DDMY36W4PK87     | DDME36W4PK87         |
| DD         | 43W2   | DDM43W2PK87  | DDMY43W2PK87     | DDME43W2PK87         |
| DD         | 47W1   | DDM47W1PK87  | DDMY47W1PK87     | DDME47W1PK87         |

For contacts with 30 microinches gold substitute K127 for K87. Example: DEM5W1PK127

For M3 clinch nuts substitute X for E. Example: DEMX5W1PK87

♣ Keyed.



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,368 (.0145) | W<br>±0,41 (.016) | K<br>±0,317 (.0125) | K<br>±0,25 (.010) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|---------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,92 (.666)      | 24,99 (.984)      | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 1,206 (.0475)       | —                 | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 25,25 (.994)      | 33,32 (1.312)     | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 1,206 (.0475)       | —                 | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,96 (1.534)     | 47,04 (1.852)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | —                   | 1,52 (.060)       | 0,99 (.039)       |
| DC         | 69,32 (2.729)     | 55,42 (2.182)     | 63,50 (2.500)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | —                   | 1,52 (.060)       | 0,99 (.039)       |
| DD         | 66,93 (2.635)     | 52,81 (2.079)     | 61,11 (2.406)     | 11,07 (.436)      | 15,37 (.605)      | 10,82 (.426)      | —                   | 6,84 (.269)       | —                   | 1,52 (.060)       | 0,99 (.039)       |

## Solder Cup (Sizes DE-DD)

## Receptacle



## Reader's Resource

For contact cavity arrangements,  
see page 223.

For panel cutouts, see page 221.

For hardware views (Standard), see page 226.

## Part Numbers

| Shell Size | Layout | Through Hole  | Dual<br>Float Mount | Clinch Nut<br>#4-40 UNC |
|------------|--------|---------------|---------------------|-------------------------|
| DE         | 5W1    | DEM5W1SA197   | DEMY5W1SA197        | DEME5W1SA197            |
| DA         | 7W2    | DAM7W2SA197   | DAMY7W2SA197        | DAME7W2SA197            |
| DA         | 11W1   | DAM11W1SA197  | DAMY11W1SA197       | DAME11W1SA197           |
| DA         | 3W3    | DAM3W3SA197   | DAMY3W3SA197        | DAME3W3SA197            |
| DA         | 3WK3♣  | DAM3WK3SA197  | DAMY3WK3SA197       | DAME3WK3SA197           |
| DB         | 5W5    | DBM5W5SA197   | DBMY5W5SA197        | DBME5W5SA197            |
| DB         | 9W4    | DBM9W4SA197   | DBMY9W4SA197        | DBME9W4SA197            |
| DB         | 13W3   | DBM13W3SA197  | DBMY13W3SA197       | DBME13W3SA197           |
| DB         | 17W2   | DBM17W2SA197  | DBMY17W2SA197       | DBME17W2SA197           |
| DB         | 21W1   | DBM21W1SA197  | DBMY21W1SA197       | DBME21W1SA197           |
| DC         | 8W8    | DCM8W8SA197   | DCMY8W8SA197        | DCME8W8SA197            |
| DC         | 13W6   | DCM13W6SA197  | DCMY13W6SA197       | DCME13W6SA197           |
| DC         | 17W5   | DCM17W5SA197  | DCMY17W5SA197       | DCME17W5SA197           |
| DC         | 21WA4  | DCM21WA4SA197 | DCMY21WA4SA197      | DCME21WA4SA197          |
| DC         | 25W3   | DCM25W3SA197  | DCMY25W3SA197       | DCME25W3SA197           |
| DC         | 27W2   | DCM27W2SA197  | DCMY27W2SA197       | DCME27W2SA197           |
| DD         | 24W7   | DDM24W7SA197  | DDMY24W7SA197       | DDME24W7SA197           |
| DD         | 36W4   | DDM36W4SA197  | DDMY36W4SA197       | DDME36W4SA197           |
| DD         | 43W2   | DDM43W2SA197  | DDMY43W2SA197       | DDME43W2SA197           |
| DD         | 47W1   | DDM47W1SA197  | DDMY47W1SA197       | DDME47W1SA197           |

For contacts with 30 microinches gold substitute K126 for A197. Example: DEM5W1SK126

For M3 clinch nuts substitute X for E. Example: DEMX5W1SA197

♣ Keyed.



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) | K<br>±0,318 (.0125) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|
| DE         | 30,81 (1.123)     | 16,33 (.643)      | 24,99 (.984)      | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,38 (1.511)     | 47,04 (1.852)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DC         | 69,32 (2.729)     | 54,84 (2.159)     | 63,50 (2.500)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DD         | 66,93 (2.635)     | 52,42 (2.064)     | 61,11 (2.406)     | 10,74 (.423)      | 15,37 (.605)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |

## Crimp Cable Connectors without Contacts (Sizes DA-DD)

Plug



## Reader's Resource

For contact cavity arrangements,  
see page 222.

For panel cutouts, see page 221.

Part Numbers

| Shell Size | Layout | Part Number    |
|------------|--------|----------------|
| DA         | 7W2    | DAA7W2PK87F0   |
| DA         | 11W1   | DAA11W1PK87F0  |
| DA         | 3W3    | DAA3W3PK87F0   |
| DB         | 5W5    | DBA5W5PK87F0   |
| DB         | 9W4    | DBA9W4PK87F0   |
| DB         | 13W3   | DBA13W3PK87F0  |
| DB         | 17W2   | DBA17W2PK87F0  |
| DB         | 21W1   | DBA21W1PK87F0  |
| DC         | 8W8    | DCA8W8PK87F0   |
| DC         | 21WA4  | DCA21WA4PK87F0 |
| DC         | 25W3   | DCA25W3PK87F0  |
| DD         | 24W7   | DDA24W7PK87F0  |
| DD         | 36W4   | DDA36W4PK87F0  |

Note: For crimp (Size 20) contacts and tooling, see pages 83 & 275.



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,368 (.0145) | W<br>±0,41 (.016) | K<br>±0,317 (.0125) | K<br>±0,25 (.010) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|---------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,92 (.666)      | 24,99 (.984)      | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 1,206 (.0475)       | —                 | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 25,25 (.994)      | 33,32 (1.312)     | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 1,206 (.0475)       | —                 | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,96 (1.534)     | 47,04 (1.852)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | —                   | 1,52 (.060)       | 0,99 (.039)       |
| DC         | 69,32 (2.729)     | 55,42 (2.182)     | 63,50 (2.500)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | —                   | 1,52 (.060)       | 0,99 (.039)       |
| DD         | 66,93 (2.635)     | 52,81 (2.079)     | 61,11 (2.406)     | 11,07 (.436)      | 15,37 (.605)      | 10,82 (.426)      | —                   | 6,84 (.269)       | —                   | 1,52 (.060)       | 0,99 (.039)       |

## Crimp Cable Connectors without Contacts (Sizes DA-DD)

## Receptacle



## Reader's Resource

For contact cavity arrangements,  
see page 223.

For panel cutouts, see page 221.

## Part Numbers

| Shell Size | Layout | Part Number     |
|------------|--------|-----------------|
| DA         | 7W2    | DAA7W2SA197F0   |
| DA         | 11W1   | DAA11W1SA197F0  |
| DA         | 3W3    | DAA3W3SA197F0   |
| DB         | 5W5    | DBA5W5SA197F0   |
| DB         | 9W4    | DBA9W4SA197F0   |
| DB         | 13W3   | DBA13W3SA197F0  |
| DB         | 17W2   | DBA17W2SA197F0  |
| DB         | 21W1   | DBA21W1SA197F0  |
| DC         | 8W8    | DCA8W8SA197F0   |
| DC         | 21WA4  | DCA21WA4SA197F0 |
| DD         | 24W7   | DDA24W7SA197F0  |
| DD         | 36W4   | DDA36W4SA197F0  |

Note: For crimp (Size 20) contacts and tooling, see pages 83 & 275.



## Dimensions

| Shell Size | A             | B             | C             | D            | E            | F            | W            | K              | L            |
|------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|----------------|--------------|
| DE         | ±0,38 (.015)  | ±0,13 (.005)  | ±0,13 (.005)  | ±0,13 (.005) | ±0,38 (.015) | ±0,25 (.010) | ±0,38 (.015) | ±0,317 (.0125) | ±0,25 (.010) |
| DA         | 30,81 (1.213) | 16,33 (.643)  | 24,99 (.984)  | 7,90 (.311)  | 12,55 (.494) | 10,90 (.429) | 6,94 (.273)  | 1,206 (.0475)  | 0,76 (.030)  |
| DB         | 39,14 (1.541) | 24,66 (.971)  | 33,32 (1.312) | 7,90 (.311)  | 12,55 (.494) | 10,90 (.429) | 6,94 (.273)  | 1,206 (.0475)  | 0,76 (.030)  |
| DC         | 53,04 (2.088) | 38,38 (1.511) | 47,04 (1.852) | 7,90 (.311)  | 12,55 (.494) | 10,90 (.429) | 6,94 (.273)  | 1,206 (.0475)  | 0,76 (.030)  |
| DD         | 69,32 (2.729) | 54,84 (2.159) | 63,50 (2.500) | 7,90 (.311)  | 12,55 (.494) | 10,90 (.429) | 6,94 (.273)  | 1,206 (.0475)  | 0,76 (.030)  |
| DD         | 66,93 (2.635) | 52,42 (2.064) | 61,11 (2.406) | 10,74 (.423) | 15,37 (.605) | 10,90 (.429) | 6,94 (.273)  | 1,206 (.0475)  | 0,76 (.030)  |

Shield Cans



Order 1 top can, 1 bottom can, 1 ferrule per connector.

| Ø Cable    | Ferrule<br>Ø A | Ferrule<br>Part Number | Crimp Tool<br>Part Number | Crimp Tool<br>Position |
|------------|----------------|------------------------|---------------------------|------------------------|
| 4,8 - 5,5  | 6,25 (.246)    | 304-8810-000           | D115433-1                 | B                      |
| 5,5 - 6,2  | 6,25 (.246)    | 304-8810-000           | D115433-1                 | A                      |
| 6,2 - 7,2  | 8,20 (.323)    | 304-8811-000           | D115433-2                 | B                      |
| 7,2 - 8,2  | 8,20 (.323)    | 304-8811-000           | D115433-2                 | A                      |
| 8,2 - 9,5  | 11,50 (.452)   | 304-8812-000           | D115433-3                 | B                      |
| 9,5 - 11,1 | 11,50 (.452)   | 304-8813-000           | D115433-3                 | A                      |

Part Numbers

|                                                                   |              |
|-------------------------------------------------------------------|--------------|
| Top Can (B size):                                                 | 348-8946-000 |
| Bottom Can (B size):                                              | 348-8945-000 |
| Note: For other available can sizes, consult factory for details. |              |

Materials and Finishes

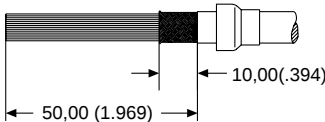
|                        |       |
|------------------------|-------|
| Shield Can and Ferrule |       |
| Material:              | Steel |
| Finish:                | Tin   |



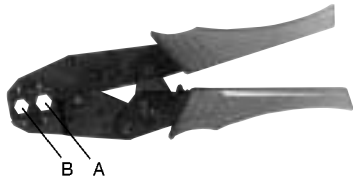
Ferrule



Wire Trim Dimensions



Crimp Tool Positions



## Crimp (Size 20) Contacts

## Loose Contacts

Stamped contacts with insulation support are supplied loose for use with hand crimp tooling. Two sizes are available to accommodate wire ranges 20 - 26 AWG.

| Finish                      |
|-----------------------------|
| 30μ inches Gold over Nickel |

For tooling, see this page.

## Pin Contact



| Part Number<br>Pin Contact |              |
|----------------------------|--------------|
| 24-26 AWG                  | 20-24 AWG    |
| 030-2487-017               | 030-2487-016 |

## Socket Contact



| Part Number<br>Socket Contact |              |
|-------------------------------|--------------|
| 24-26 AWG                     | 20-24 AWG    |
| 030-2488-017                  | 030-2488-016 |

## Reeled Contacts (5,000 Pieces per Reel)

Stamped contacts with insulation support are supplied on reels of 5,000 for use with semi-automatic strip and crimp machines. Two sizes are available to accommodate wire ranges 20 - 26 AWG.

| Finish                      |
|-----------------------------|
| Gold over Nickel            |
| 30μ inches Gold over Nickel |

For semi-automatic tooling, see page 275.

## Pin Contacts



| Part Number<br>Pin Contact |              |
|----------------------------|--------------|
| 24-26 AWG                  | 20-24 AWG    |
| 980-2000-925               | 980-2000-924 |
| 980-2000-946               | 980-2000-945 |

## Socket Contacts



| Part Number<br>Socket Contact |              |
|-------------------------------|--------------|
| 24-26 AWG                     | 20-24 AWG    |
| 980-2000-926                  | 980-2000-923 |
| 980-2000-944                  | 980-2000-943 |

## Pin Contacts



## Socket Contacts



## Tooling

## CCT-D\*A-1



## Hand Crimp Tool

| Description | Part Number  |
|-------------|--------------|
| CCT-D*A-1   | 995-2000-000 |

## Extraction Tool

| Description    | Part Number  | Wire Size |
|----------------|--------------|-----------|
| CIET-D*A-20-24 | 980-0008-135 | 20-24 AWG |
| CIET-D*A-24-26 | 980-0008-136 | 24-26 AWG |

For semi-automatic tooling, see page 275.

Cable (Size 8) Loose Contacts — Coaxial 75 Ohm

Stamped Crimp/Crimp

Recommended Wire Trim Dimensions



Kit (Body, Ferrule, Center Contact)

| Stamped Crimp/Crimp | Kit<br>Gold over Ni | Kit<br>30µ in. Gold over Ni | Kit<br>50µ in. Gold over Ni | RG Cable Number |
|---------------------|---------------------|-----------------------------|-----------------------------|-----------------|
| Plug                | D130322-2           | D130322-1                   | D130322-6                   | 179/U           |
| Receptacle          | D130344-1           | D130344                     | D130344-2                   | 179/U           |

Loose Components for High Volume (3 Pieces — Body, Ferrule, Center Contact)

| Stamped Crimp/Crimp | Body         | Ferrule      | Center Contact<br>Gold over Ni<br>10,000 Reel | Center Contact<br>30µ in. Gold over Ni<br>10,000 Reel |
|---------------------|--------------|--------------|-----------------------------------------------|-------------------------------------------------------|
| Plug                | 249-2272-000 | 304-0444-000 | 110238-1015                                   | 110238-1012                                           |
| Receptacle          | 249-2271-000 | 304-0444-000 | 110238-1014                                   | 110238-1013                                           |

Tooling for Stamped Crimp/Crimp



| Description              | Crimping Tool          | Tool Number      |
|--------------------------|------------------------|------------------|
| Stamped Center Conductor | Hand Crimp, "B" Crimp  | CCTP-750HM       |
|                          | Semi-Automatic Crimper | ABT-607 (Leased) |
| Stamped Outer Conductor  | Hand Tool, Hex Crimp   | CCTP-DM          |
|                          | Pneumatic Hex Crimp    | 995-2000-094     |

For semi-automatic tooling, see page 275.

Cable (Size 8) Loose Contacts — Coaxial 75 Ohm — 90°

90° Crimp Braid/Solder Center Contact

|            | Part Number<br>Gold over Ni | Part Number<br>30µ in. Gold over Ni | Part Number<br>50µ in. Gold over Ni |
|------------|-----------------------------|-------------------------------------|-------------------------------------|
| Plug       | D130357-1                   | D130357                             | D130357-4                           |
| Receptacle | D130356-1                   | D130356                             | D130356-3                           |



Plug



Receptacle

Note: Ferrule not shown.

Note: Ferrule not shown.

Tooling for 90° Crimp Braid



| Description | Part Number  |
|-------------|--------------|
| Hand Tool:  | 995-0001-761 |
| Die Set:    | 995-2000-110 |

## Cable (Size 8) Loose Contacts — Coaxial 50 Ohm — Straight

## Straight Crimp Braid



Plug



Receptacle

Note: Dimensions include outer sleeve.

|            | Part Number<br>Gold Over Nickel | Part Number<br>50 $\mu$ in.<br>Gold Over Copper | A<br>max.    | B<br>max.     | D<br>min.   | RG Cable Number |                  |
|------------|---------------------------------|-------------------------------------------------|--------------|---------------|-------------|-----------------|------------------|
|            |                                 |                                                 |              |               |             | Old             | New              |
| Plug       | DM53740                         | DM53740-17                                      | 18,80 (.739) | 24,00 (.945)  | 1,00 (.040) | 196/U           | 178B/U           |
| Plug       | DM53740-1                       | DM53740-15                                      | 18,80 (.739) | 24,00 (.945)  | 1,70 (.067) | 187/U<br>188/U  | 179B/U<br>316B/U |
| Plug       | DM53740-35                      | —                                               | 18,80 (.739) | 24,00 (.945)  | 1,70 (.067) | —               | RD316            |
| Plug       | DM53740-3                       | DM53740-16                                      | 21,50 (.847) | 26,34 (1.037) | 2,79 (.110) | 195/U           | 180B/U           |
| Plug       | DM53740-5                       | DM53740-18                                      | 21,50 (.847) | 26,34 (1.037) | 3,18 (.125) | 58/U            | 58B/U            |
| Receptacle | DM53742                         | DM53742-18                                      | 18,80 (.739) | 24,00 (.945)  | 1,00 (.040) | 196/U           | 178B/U           |
| Receptacle | DM53742-1                       | DM53742-16                                      | 18,80 (.739) | 24,00 (.945)  | 1,70 (.067) | 187/U<br>188/U  | 179B/U<br>316B/U |
| Receptacle | DM53742-36                      | —                                               | 18,80 (.739) | 24,00 (.945)  | 1,70 (.067) | —               | RD316            |
| Receptacle | DM53742-3                       | DM53742-17                                      | 21,50 (.847) | 26,34 (1.037) | 2,79 (.110) | 195/U           | 180B/U           |
| Receptacle | DM53742-5                       | DM53742-19                                      | 21,50 (.847) | 26,34 (1.037) | 3,18 (.125) | 58/U            | 58B/U            |

For crimp tooling, see page 89.

## Straight Solder Braid



Plug



Receptacle

|                         | Part Number<br>Gold Over Nickel | Part Number<br>50 $\mu$ in.<br>Gold Over Copper | A<br>max.    | B<br>max.     | D<br>min.   | RG Cable Number |                  |
|-------------------------|---------------------------------|-------------------------------------------------|--------------|---------------|-------------|-----------------|------------------|
|                         |                                 |                                                 |              |               |             | Old             | New              |
| Plug                    | DM53740-5008                    | DM53740-5105                                    | 18,80 (.739) | 24,00 (.945)  | 1,00 (.040) | 196/U           | 178B/U           |
| Plug                    | DM53740-5001                    | DM53740-5099                                    | 18,80 (.739) | 24,00 (.945)  | 1,70 (.067) | 187/U<br>188/U  | 179B/U<br>316B/U |
| Plug                    | DM53740-5145                    | —                                               | 18,80 (.739) | 24,00 (.945)  | 1,70 (.067) | —               | RD316            |
| Plug                    | DM53740-5002                    | DM53740-5104                                    | 21,50 (.847) | 26,34 (1.037) | 2,79 (.110) | 195/U           | 180B/U           |
| Plug                    | DM53740-5005                    | DM53740-5101                                    | 21,50 (.847) | 26,34 (1.037) | 3,18 (.125) | 58/U            | 58/U             |
| Plug (Short Type)       | DM53740-5000                    | DM53740-5100                                    | 17,00 (.670) | 22,20 (.874)  | 1,14 (.045) | 196/U           | 178B/U           |
| Receptacle              | DM53742-5006                    | DM53742-5092                                    | 18,80 (.739) | 24,00 (.945)  | 1,00 (.040) | 196/U           | 178B/U           |
| Receptacle              | DM53742-5001                    | DM53742-5089                                    | 18,80 (.739) | 24,00 (.945)  | 1,70 (.067) | 187/U<br>188/U  | 179B/U<br>316B/U |
| Receptacle              | DM53742-5126                    | —                                               | 18,80 (.739) | 24,00 (.945)  | 1,70 (.067) | —               | RD316            |
| Receptacle              | DM53742-5002                    | DM53742-5091                                    | 21,50 (.847) | 26,34 (1.037) | 2,79 (.110) | 195/U           | 180B/U           |
| Receptacle              | DM53742-5004                    | DM53742-5086                                    | 21,50 (.847) | 26,34 (1.037) | 3,18 (.125) | 58/U            | 58/U             |
| Receptacle (Short Type) | DM53742-5000                    | DM53742-5085                                    | 17,00 (.670) | 22,20 (.874)  | 1,14 (.045) | 196/U           | 178B/U           |

## Cable (Size 8) Loose Contacts — Coaxial 50 Ohm — 90°

## 90° Crimp Braid



Plug



Receptacle

Note: Dimensions include outer sleeve.

|            | Part Number<br>Gold Over Nickel | Part Number<br>50μ in. Gold Over Copper | A<br>max.    | B<br>max.    | C            | D<br>±0,13 (.005) | RG Cable Number |                  |
|------------|---------------------------------|-----------------------------------------|--------------|--------------|--------------|-------------------|-----------------|------------------|
|            |                                 |                                         |              |              |              |                   | Old             | New              |
| Plug       | DM53741                         | DM53741-12                              | 13,46 (.530) | 18,92 (.745) | 15,10 (.594) | 1,14 (.045)       | 196/U           | 178B/U           |
| Plug       | DM53741-1                       | DM53741-11                              | 13,46 (.530) | 18,92 (.745) | 15,10 (.594) | 1,83 (.072)       | 187/U<br>188/U  | 179B/U<br>316B/U |
| Plug       | DM53741-3                       | DM53741-10                              | 13,46 (.530) | 18,92 (.745) | 16,00 (.630) | 2,79 (.110)       | 195/U           | 180B/U           |
| Plug       | DM53741-4                       | DM53741-13                              | 13,46 (.530) | 18,92 (.745) | 16,00 (.630) | 3,18 (.125)       | 58/U            | 58B/U            |
| Receptacle | DM53743-2                       | DM53743-18                              | 13,46 (.530) | 18,92 (.745) | 15,09 (.594) | 1,14 (.045)       | 196/U           | 178B/U           |
| Receptacle | DM53743-3                       | DM53743-16                              | 13,46 (.530) | 18,92 (.745) | 15,09 (.594) | 1,83 (.072)       | 187/U<br>188/U  | 179B/U<br>316B/U |
| Receptacle | DM53743-5                       | DM53743-17                              | 13,46 (.530) | 18,92 (.745) | 16,00 (.630) | 2,79 (.110)       | 195/U           | 180B/U           |
| Receptacle | DM53743-6                       | DM53743-19                              | 13,46 (.530) | 18,92 (.745) | 16,00 (.630) | 3,18 (.125)       | 58/U            | 58B/U            |

For crimp tooling, see page 89.

## 90° Solder Braid



Plug



Receptacle

|            | Part Number<br>Gold Over Nickel | Part Number<br>50μ in. Gold Over Copper | A<br>max.    | B<br>max.    | C            | D<br>min.   | RG Cable Number |                  |
|------------|---------------------------------|-----------------------------------------|--------------|--------------|--------------|-------------|-----------------|------------------|
|            |                                 |                                         |              |              |              |             | Old             | New              |
| Plug       | DM53741-5000                    | DM53741-5059                            | 13,46 (.530) | 18,92 (.745) | 15,10 (.594) | 1,00 (.040) | 196/U           | 178B/U           |
| Plug       | DM53741-5001                    | DM53741-5062                            | 13,46 (.530) | 18,92 (.745) | 15,10 (.594) | 1,70 (.067) | 187/U<br>188/U  | 179B/U<br>316B/U |
| Plug       | DM53741-5003                    | DM53741-5063                            | 13,46 (.530) | 18,92 (.745) | 16,00 (.630) | 2,79 (.110) | 195/U           | 180B/U           |
| Plug       | DM53741-5004                    | DM53741-5060                            | 13,46 (.530) | 18,92 (.745) | 16,00 (.630) | 3,18 (.125) | 58/U            | 58B/U            |
| Receptacle | DM53743-5000                    | DM53743-5073                            | 13,46 (.530) | 18,92 (.745) | 15,09 (.594) | 1,00 (.040) | 196/U           | 178B/U           |
| Receptacle | DM53743-5001                    | DM53743-5076                            | 13,46 (.530) | 18,92 (.745) | 15,09 (.594) | 1,70 (.067) | 187/U<br>188/U  | 179B/U<br>316B/U |
| Receptacle | DM53743-5003                    | DM53743-5077                            | 13,46 (.530) | 18,92 (.745) | 16,00 (.630) | 2,79 (.110) | 195/U           | 180B/U           |
| Receptacle | DM53743-5004                    | DM53743-5074                            | 13,46 (.530) | 18,92 (.745) | 16,00 (.630) | 3,18 (.125) | 58/U            | 58B/U            |

Insertion/Extraction Instructions for Coaxial, High Power and High Voltage Contacts

**Insertion Tool**  
No insertion tool is required. The contact is easily snapped in from the rear of the connector manually.

Insertion Instructions



Extraction Tool

CET-C6B-2

Operating Instructions



The CET-C6B-2 tool extracts all coaxial, high power and high voltage contacts (plug and receptacle).

To extract the coaxial contact, hold the tool by the body and insert the tip into the front of the contact cavity until it bottoms and closes the coaxial retaining ring. Holding the body in this position

securely enough to keep coaxial retaining ring closed, push the plunger; contact will be pushed out of the rear of the assembly.

| Description | Part Number |
|-------------|-------------|
| CET-C6B-2   | 070064-0002 |

## Coaxial Assembly Instructions

## Straight and 90° Coaxial Assembly

## STEP 1:

Slide the outer ring over the cable jacket. Trim the cable as specified in the table of Coaxial Cable Trim Dimensions (see this page). Insert the cable dielectric and center conductor into the inside diameter of the inner sleeve. Then solder the center conductor to the coaxial center contact.

Straight Coaxial



90° Coaxial



## Straight and 90° Coaxial Assembly

## STEP 2:

Slide the outer ring forward until it is flush with the coaxial shell containing the braid between the outer ring and the inner sleeve. For solder type coaxes, soft solder the outer ring to the assembly through the cross-drilled solder hold. For crimp type coaxes, crimp with the appropriate tool in the area defined.

Straight Coaxial



90° Coaxial



## Coaxial Cable Trim Dimensions



| RG Cable Number                                | Straight Coaxial   |                    |                    | 90° Coaxial        |                    |                    |
|------------------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                                                | N<br>± 0,25 (.010) | O<br>± 0,25 (.010) | P<br>± 0,25 (.010) | N<br>± 0,25 (.010) | O<br>± 0,25 (.010) | P<br>± 0,25 (.010) |
| 196/U, 178B/U, 187/U,<br>188/U, 179B/U, 316B/U | 7,92 (.312)        | 6,35 (.250)        | 1,98 (.078)        | 9,52 (.375)        | 5,94 (.234)        | 1,57 (.062)        |
| 195/U, 180B/U,<br>58/U, 58B/U                  | 9,52 (.375)        | 7,92 (.312)        | 1,98 (.078)        | 10,69 (.422)       | 7,92 (.312)        | 2,39 (.094)        |

## Crimp Tooling



| RG Cable Number                 | Tool Part Number | Description | Closure |
|---------------------------------|------------------|-------------|---------|
| 196/U, 178B/U                   | 070051-0000      | CCT-DM      | C       |
| 187/U, 179B/U,<br>188/U, 316B/U | 070051-0000      | CCT-DM      | B       |
| 195/U, 180B/U,<br>58/U, 58B/U   | 070051-0000      | CCT-DM      | A       |

Hand tool with integral die set for all coaxial straight crimp braid.

## Cable (Size 8) Loose Contacts — High Power — Solder

Plug



| Part Number<br>Gold Over Nickel | Part Number<br>50 $\mu$ in. Gold over Ni | Current Rating | Wire<br>Size |
|---------------------------------|------------------------------------------|----------------|--------------|
| DM53745-1                       | DM53745-28                               | 40 A           | 8 AWG        |
| DM53745-7                       | DM53745-27                               | 20 A           | 12 AWG       |
| DM53745-8                       | DM53745-25                               | 10 A           | 16 AWG       |

Receptacle



| Part Number<br>Gold Over Nickel | Part Number<br>50 $\mu$ in. Gold over Ni | Current Rating | Wire<br>Size |
|---------------------------------|------------------------------------------|----------------|--------------|
| DM53744-1                       | DM53744-21                               | 40 A           | 8 AWG        |
| DM53744-6                       | DM53744-25                               | 20 A           | 12 AWG       |
| DM53744-7                       | DM53744-24                               | 10 A           | 16 AWG       |

## Cable (Size 8) Loose Contacts — High Power — Crimp

Plug



Recommended Wire Trim Length



| Part Number<br>Gold Over Nickel | Part Number<br>30 $\mu$ in. Gold over Ni | Part Number<br>50 $\mu$ in. Gold over Ni | ØA<br>max.  | ØB<br>max.  | Current<br>Rating | Wire<br>Size |
|---------------------------------|------------------------------------------|------------------------------------------|-------------|-------------|-------------------|--------------|
| DM130338-4                      | DM130338                                 | DM130338-1                               | 4,60 (.181) | 5,84 (.230) | 40 A              | 8 AWG        |
| DM130339-4                      | DM130339                                 | DM130339-1                               | 2,54 (.100) | 5,54 (.218) | 20 A              | 12 AWG       |
| DM130340-4                      | DM130340                                 | DM130340-1                               | 1,07 (.067) | 2,59 (.102) | 10 A              | 16 AWG       |

Receptacle



Recommended Wire Trim Length



| Part Number<br>Gold Over Nickel | Part Number<br>30 $\mu$ in. Gold over Ni | Part Number<br>50 $\mu$ in. Gold over Ni | ØA<br>max.  | ØB<br>max.  | Current<br>Rating | Wire<br>Size |
|---------------------------------|------------------------------------------|------------------------------------------|-------------|-------------|-------------------|--------------|
| DM130341-4                      | DM130341                                 | DM130341-1                               | 4,60 (.181) | 5,84 (.230) | 40 A              | 8 AWG        |
| DM130342-4                      | DM130342                                 | DM130342-1                               | 2,54 (.100) | 5,54 (.218) | 20 A              | 12 AWG       |
| DM130343-4                      | DM130343                                 | DM130343-1                               | 1,07 (.067) | 2,59 (.102) | 10 A              | 16 AWG       |

## High Power Crimp Tooling

M300-BT



| Wire<br>Size | Crimp Tool/Locator |                        |         |
|--------------|--------------------|------------------------|---------|
|              | Crimp<br>Tool      | Tool Setting<br>Number | Locator |
| 8 AWG        | M300-BT            | 6                      | TP968   |
| 10 AWG       | M300-BT            | 5                      | TP968   |
| 12/14 AWG    | M300-BT            | 1                      | TP968   |
| 16 AWG       | FT-8               | 6                      | TH554   |
| 18 AWG       | FT-8               | 5                      | TH554   |

Cable (Size 8) Loose Contacts — High Voltage — Straight

Plug



For tooling, see page 88.

| Part Number  | Part Number   | Wire   |
|--------------|---------------|--------|
| Gold over Ni | 50μ. in. Gold | Size   |
| DM51157      | DM51157-8     | 20 AWG |

Receptacle



For tooling, see page 88.

| Part Number  | Part Number   | Wire   |
|--------------|---------------|--------|
| Gold over Ni | 50μ. in. Gold | Size   |
| DM51155      | DM51155-7     | 20 AWG |

Cable (Size 8) Loose Contacts — High Voltage — 90°

Plug



For tooling, see page 88.

| Part Number  | Part Number   | Wire   |
|--------------|---------------|--------|
| Gold over Ni | 50μ. in. Gold | Size   |
| DM51157-5000 | DM51157-5005  | 20 AWG |

Receptacle



For tooling, see page 88.

| Part Number  | Part Number   | Wire   |
|--------------|---------------|--------|
| Gold over Ni | 50μ. in. Gold | Size   |
| DM51155-5000 | DM51155-5004  | 20 AWG |

PCB (Size 8) Loose Contacts — Coaxial 75 Ohm — Straight

Plug

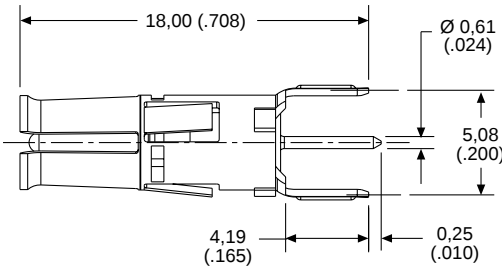
| Description | Part Number |
|-------------|-------------|
| Plug        | DM130358-2  |



Receptacle



| Description | Part Number |
|-------------|-------------|
| Receptacle  | DM130346-2  |

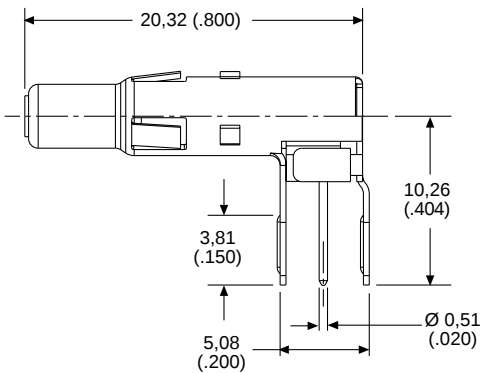


PCB (Size 8) Loose Contacts — Coaxial 75 Ohm — 90°

Plug



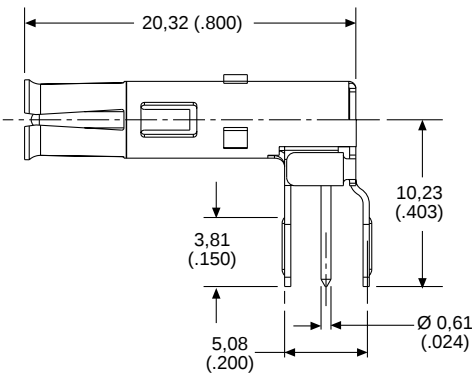
| Description | Part Number |
|-------------|-------------|
| Plug        | DM130352-2  |



Receptacle



| Description | Part Number |
|-------------|-------------|
| Receptacle  | DM130321-3  |



## PCB (Size 8) Loose Contacts — High Power — Straight

Pin



| Description | Part Number |
|-------------|-------------|
| Pin         | DM53745-110 |



Socket



| Description | Part Number |
|-------------|-------------|
| Socket      | DM53744-98  |



## PCB (Size 8) Loose Contacts — High Power — 90°

Pin



| Shell Size                            | Part Number | A<br>± 0,25 (.010) | B<br>± 0,25 (.010) | Ø C<br>± 0,13 (.005) |
|---------------------------------------|-------------|--------------------|--------------------|----------------------|
| DE, DA, DB, DC                        | DM53745-104 | 10,62 (.418)       | 26,64 (1.049)      | 3,18 (.125)          |
| DD                                    | DM53745-107 | 13,41 (.528)       | 26,64 (1.049)      | 3,18 (.125)          |
| European Footprint DE, DA, DB, DC, DD | DM53745-120 | 18,06 (.711)       | 11,00 (.433)       | 2,90 (.114)          |

Socket



| Shell Size                            | Part Number | A<br>± 0,25 (.010) | B<br>± 0,25 (.010) | Ø C<br>± 0,13 (.005) |
|---------------------------------------|-------------|--------------------|--------------------|----------------------|
| DE, DA, DB, DC                        | DM53744-92  | 13,41 (.528)       | 26,52 (1.044)      | 3,18 (.125)          |
| DD                                    | DM53744-95  | 10,62 (.418)       | 26,52 (1.044)      | 3,18 (.125)          |
| European Footprint DE, DA, DB, DC, DD | DM53744-107 | 11,00 (.433)       | 17,93 (.706)       | 2,90 (.114)          |

PCB (Size 8) Loose Contacts — High Voltage — Straight

Plug



Receptacle



PCB Guide Pin and Socket



Installs into any Combo D, Size 8 cavity. This guide pin and socket system is ideal for blind mate applications where space is limited.

PCB Guide Pin



| Part Number | Material     | Finish |
|-------------|--------------|--------|
| DM53745-126 | Copper Alloy | Tin    |



PCB Guide Socket



| Part Number  | Material     | Finish |
|--------------|--------------|--------|
| 248-2967-000 | Copper Alloy | Tin    |



|                                                     |      |
|-----------------------------------------------------|------|
| Selection Index                                     | Page |
| Commercial Shielded Micro D                         |      |
| An Introduction . . . . .                           | 97   |
| Locking/Latching Options . . . . .                  | 98   |
| Cable Assemblies — Pigtail. . . . .                 | 98   |
| PCB Connector 90° — Single or Stacked. . . . .      | 99   |
| Cable Connectors (Unassembled Components) . . . . . | 100  |
| Crimp Contacts . . . . .                            | 100  |
| Tooling. . . . .                                    | 101  |
| MDSM SSA Compatible Cable Assemblies . . . . .      | 102  |

**M**DSM is the commercial industry's smallest D-type connector for shielded I/O wire-to-board applications. Requiring less than 1/3 the area of a traditional D Subminiature connector, MDSM is designed for situations where space and EMI shielding are the primary design drivers.

Unlike other micro connectors, MDSM's rugged construction and unique contact design combined with a PdNi contact finish provide durability of 10,000 mating cycles. All of this comes in a sleek package that includes a snap together shield can and a slide over boot producing a cable assembly with an overmolded look and a low assembled cost. MDSM is an ideal solution for applications where size, shielding, durability and aesthetics are key design criteria.

#### Applications:

- Electronic Notepads
- VME Cards
- Multiplexors
- Serial Storage Devices
- Computer Workstations
- Hand Held Devices
- Bar Code Scanners



### Product Features

1,27 (.050) Pitch / Saves Space  
 Fully Shielded / Reduces EMI  
 Crimp Contacts / Applied Cost Savings  
 Accessories Included / Fewer Part Numbers  
 PdNi Plating / 10,000 Mating Cycles

Stacked Versions / Saves Horizontal Space  
 Slide Over Boot / Results in Overmolded Appearance  
 Choice of Two Different Latching Options (Thumbscrew / Push-Pull)

Approvals & Certifications  
 SSA (Serial Storage Architecture)  
 U.L. File Number E8572  
 ISO 9001

### Specifications

|                                 |                      |
|---------------------------------|----------------------|
| Temperature Rating              | — 55°C to 125°C      |
| Current Rating                  | 1 A — temp dependent |
| Contact Resistance              | 20 mΩ Max.           |
| Insulation Resistance           | 5000 MΩ Min.         |
| Dielectric Withstanding Voltage | 350 V at Sea Level   |
| Durability                      | 10,000 Mating Cycles |
| Shock / Vibration               | 50 G's / 50 G's      |
| Wire Size                       | 26 to 30 AWG         |

### Materials and Finishes

| Description | Material                | Finish                                                             |
|-------------|-------------------------|--------------------------------------------------------------------|
| Shell       | Steel                   | Nickel                                                             |
| Shield Can  | Steel                   | Tin                                                                |
| Cover       | Steel                   | Tin                                                                |
| Insulator   | Thermoplastic, UL94 V-O | None                                                               |
| Contacts    | Copper Alloy            | Gold flash over 30 microinches PdNi in mating area, Tin on balance |

### Contact Arrangements

(Face View of Pin Insert — Use Mirror Image for Socket Side)



---

Locking/Latching Options

---

Jackscrew



The jackscrew locking system is designed for applications which require a secure connection. Utilize thumbscrews when the connectors are infrequently unmated.

Push/Pull



The push/pull latching system is designed for applications which require a quick connect and disconnect. A spring retention mechanism latches to a post on the board side to prevent unintentional unmatings.

Z10 Jackpost



Note: Two Jackposts supplied with boardside connectors.

Z42 Jackpost



Note: Two Jackposts supplied with boardside connectors.

## PCB Connector 90° - Single

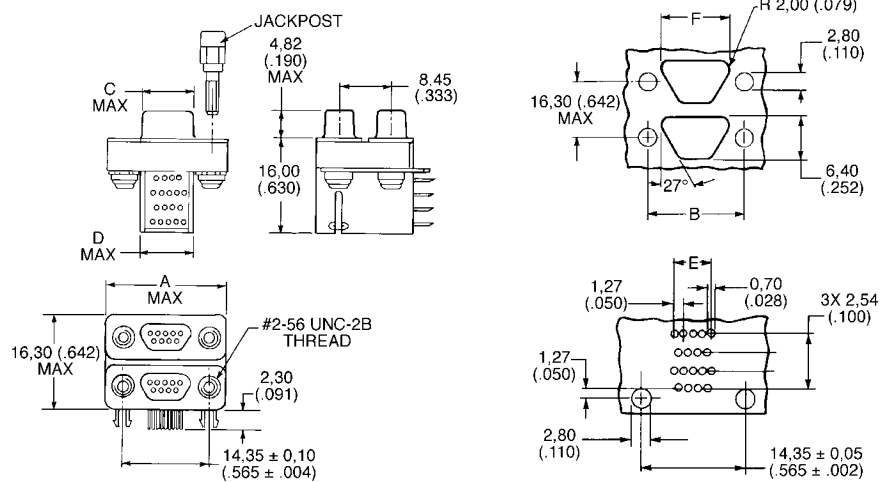


Note: Standard jackpost offering recommended for use with .060 panel.

| No. of<br>Contacts | Part Numbers - Single |                    | A<br>max.     | B            | C<br>max.    | D<br>max.    | E            | F<br>±0.05 (.002) |
|--------------------|-----------------------|--------------------|---------------|--------------|--------------|--------------|--------------|-------------------|
|                    | Thumbscrew            | Push/Pull          |               |              |              |              |              |                   |
| 9                  | MDSM-9PE-Z10-VR25*    | MDSM-9E-Z42-VR25*  | 19,90 (.783)  | 14,35 (.565) | 8,60 (.339)  | 9,00 (.354)  | 5,08 (.200)  | 10,24 (.403)      |
| 15                 | MDSM-15PE-Z10-VR22    | MDSM-15PE-Z42-VR22 | 23,60 (.929)  | 18,16 (.715) | 12,30 (.484) | 12,90 (.508) | 8,89 (.350)  | 14,01 (.551)      |
| 25                 | MDSM-25PE-Z10-VR17    | MDSM-25PE-Z42-VR17 | 29,95 (1.179) | 24,51 (.965) | 18,65 (.734) | 19,25 (.758) | 15,24 (.600) | 20,35 (.801)      |

\*For use with SSA applications

## PCB Connector 90° - Stacked



| No. of<br>Contacts | Part Numbers - Stacked |                     | A<br>max.    | B            | C<br>max.    | D<br>max.    | E           | F            |
|--------------------|------------------------|---------------------|--------------|--------------|--------------|--------------|-------------|--------------|
|                    | Thumbscrew             | Push/Pull           |              |              |              |              |             |              |
| 18                 | MDSM-18PE-Z10-VR25*    | MDSM-18PE-Z42-VR25* | 19,90 (.783) | 14,35 (.565) | 8,60 (.339)  | 9,00 (.354)  | 5,08 (.200) | 10,24 (.403) |
| 30                 | MDSM-30PE-Z10-VR22     | MDSM-30PE-Z42-VR22  | 23,50 (.925) | 18,16 (.715) | 12,30 (.484) | 12,71 (.500) | 8,89 (.350) | 14,00 (.551) |

\*For use with SSA applications

Cable Connectors (Unassembled Components)

Jackscrew



Cable connectors are supplied as complete kits with insulator, hood, locking hardware, shell/shield assembly, and cover, bulk packaged.



Push/Pull



Cable connectors are supplied as complete kits with insulator, hood, shell/shield assembly, and cover, bulk packaged.



| Layout | Jackscrew<br>Part Numbers | Push/Pull<br>Part Numbers | A<br>max.     | B<br>0,10 (.004) | C<br>0,10 (.004) | D<br>max.    | Max.<br>Cable Entry |
|--------|---------------------------|---------------------------|---------------|------------------|------------------|--------------|---------------------|
| 9      | MDSM-9SC-Z11-VS1          | MDSM-9SC-Z24-VS1          | 19,90 (.783)  | 14,35 (.565)     | 9,45 (.372)      | 35,50 (1.40) | 5,70 (.224)         |
| 15     | MDSM-15SC-Z11-VS1         | MDSM-15SC-Z24-VS1         | 23,70 (.993)  | 18,16 (.715)     | 13,17 (.519)     | 35,50 (1.40) | 6,70 (.264)         |
| 25     | MDSM-25SC-Z11-VS1         | MDSM-25SC-Z24-VS1         | 30,05 (1.183) | 24,51 (.965)     | 19,52 (.769)     | 42,50 (1.67) | 7,90 (.311)         |

Note: VS1 refers to packaging multiples of 100.  
Contacts are sold separately, see this page.

Crimp Contacts

Wire Trim Dimensions



| Socket | Part Numbers     |                   |
|--------|------------------|-------------------|
|        | 1,000 Piece Reel | 10,000 Piece Reel |
|        | MDS-S-TS         | MDS-S-RL          |

For crimp tooling, see page 101.

Contact Crimping Tools

Parallel Action Low Volume Hand Tool



Part Number: CCTP-MDS  
Note: For use with individual contacts (break off reel MDS-S-TS or MDS-S-RL.

Hand Tool



Part Number: CCTR-MDS  
Note: For use with reeled contacts - Part Number MDS-S-TS.

Semi-Automatic Crimper/Stripper



Part Number: ABT-620-MDS (Lease Only)  
Note: For use with reeled contacts - Part Number MDS-S-RL. For additional information, see page 275. Crimp dies for SSA Cable will be offered by ITT Cannon. Consult factory for details.

Contact Insertion/Extraction Tools

Jackpost Tool



Part Number: CIET-MDSM  
Note: For use with Z10 Jackpost.

Insertion Tool



Part Number: 120090-0102  
Note: Contacts cannot be removed from MDSM connectors.

Shield Crimp Tooling

Shield crimping requires four items; one press, one locator, and one each of the two dies listed below.  
Locator and Dies for Shield Termination Ordered Separately

| Layout | Part Numbers |                           |
|--------|--------------|---------------------------|
|        | Locator      | Die                       |
| 9      | 317-8666-013 | 274-8649-332/274-8649-333 |
| 15     | 317-8666-014 | 274-8649-334/274-8649-335 |
| 25     | 317-8666-016 | 274-8649-338/274-8649-339 |

Note: For assembly instructions and crimping information, refer to Manual #MY-1/190.

Hand Press



Part Number: CHP-MDSM-SR

Pneumatic Press



Part Number: CPT-MDSM-SR

MDSM SSA Compatible Cable Assemblies



ITT Cannon's 9 position MDSM connectors have been designed into the ANSI specification called SSA, "Serial Storage Architecture," as the external I/O. SSA is a new serial interface for interconnecting storage devices, storage subsystems, servers and workstations. Storage subsystems are increasing in function, availability, density and performance. With this comes the trend for them to become more complex and ITT Cannon has the interconnect system which meets SSA's high performance requirements.

SSA is an architecture which allows these new subsystems to be implemented more easily and at lower costs than other new high speed parallel

interfaces. SSA permits the transfer of data at progressively higher speeds - 20 MB/sec interface currently available with 40 MB/sec becoming available in 1997/98. ITT Cannon's MDSM connector not only functions at these high speeds, but also brings to SSA smaller, less cumbersome and higher reliability cables and connectors than current options.

ITT Cannon is offering SSA compatible external cable assemblies in six different lengths to meet your needs. These assemblies consist of two MDSM 9SC type cable connectors terminated to SSA specified external cable.



Note: Cables shown with Z50 thumbscrews.

| Part Number | X<br>Meter (Feet) | Tolerance      |
|-------------|-------------------|----------------|
| CA112104    | 0,50 (1.600)      | ±25,00 (1.000) |
| CA112104-1  | 1,00 (2.200)      | ±25,00 (1.000) |
| CA112104-2  | 3,00 (9.800)      | ±25,00 (1.000) |
| CA112104-3  | 5,00 (16.400)     | ±64,00 (2.500) |
| CA112104-4  | 10,00 (32.800)    | ±64,00 (2.500) |
| CA112104-5  | 20,00 (65.600)    | ±64,00 (2.500) |

Note: For push/pull assemblies or other thumbscrews, please consult the factory.  
Crimp dies for SSA applications will be offered by ITT Cannon. Consult factory for details.

Pinout

SSA External Cable Wiring Table



Note: Shield connected to both shells.

External Cable Pinouts

| P1  |             | P2  |             |
|-----|-------------|-----|-------------|
| Pin | Signal Name | Pin | Signal Name |
| 2   | LineOut–    | 4   | LineIn–     |
| 6   | LineOut+    | 9   | LineIn+     |
| 4   | LineIn–     | 2   | LineOut–    |
| 9   | LineIn+     | 6   | LineOut+    |

Note: Pins 1, 3, 5, 7 and 8 are not connected.

SSA External Cable Wire Cross Section (For Reference Only)



Transfer Impedance Performance  
Requirements for External SSA Connections

| Frequency MHz | Value (dB-Ohm)(max.) |
|---------------|----------------------|
| 30            | –25                  |
| 159           | –16                  |
| 500           | –10                  |

|                                                   |      |
|---------------------------------------------------|------|
| Selection Index                                   | Page |
| Filter D                                          |      |
| An Introduction to D*JK and D*JT                  | 105  |
| D*JK Filter Performance and Electrical Data       | 106  |
| D*JT Filter Performance and Electrical Data       | 107  |
| D*JK Connectors                                   |      |
| Standard Footprint .318◆ or .283◆◆ inches         |      |
| 90° PC Tails                                      | 108  |
| 90° PC Tails, Metal Brackets                      | 112  |
| European Footprint 10,2◆ or 9,4◆◆ mm              |      |
| 90° PC Tails                                      | 110  |
| 90° PC Tails, Metal Brackets                      | 114  |
| 90° PC Tails, Plastic Brackets & Grounding Straps | 116  |
| 90° PC Tails, Plastic Brackets                    | 118  |
| Straight PC Tails                                 | 120  |
| D*JT Connectors                                   |      |
| Solder Cup                                        | 122  |
| Combo — High Power 90°                            | 124  |
| Combo — High Power Straight                       | 126  |
| Combo — High Power Solder Cup                     | 128  |

◆ Connector footprint measured from the front shell.  
◆◆ Connector footprint measured from the rear shell.

**D\*JK/D\*JT**

**F**ilter connectors series D\*JK and D\*JT from ITT Cannon especially designed for commercial applications provide excellent protection against EMI and RFI.

Using D Subminiature standard components a cost-effective production can be achieved as well as 100% compatibility with equivalent products according to DIN 41652. D Subminiature standard accessories can be used.

High quality tubular ceramic capacitors are assembled onto the D\*JK contacts and soldered to contact and backshell while series D\*JT connectors apply planar array filters.

**Applications:**

EMI/RFI Sensitive Electronics  
Test & Measurement Equipment  
Computer Equipment  
Medical Equipment  
Telecommunication Transmission

**Product Features**

HF-tightness and mechanical stability by closed backshell  
Free-stamped grounding fingers (pin connector only)

Straight and 90° solder pins (D\*JK)  
Solder cups, straight and 90° solder pins (D\*JT)

Versatile mounting possibilities (brackets, captive nuts)  
Contact finish according to performance class 2 (standard) or class 1

**Specifications**

Temperature Range Per DIN IEC 68 Part 1    –55°C to 125°C

**Materials and Finishes**

| Description | Material                | Finish           |
|-------------|-------------------------|------------------|
| Shell       | Steel                   | Tin              |
| Insulator   | Thermoplastic, UL 94V-0 | None             |
| Contacts    | Copper Alloy            | Gold over Nickel |

**Mechanical Data**

|              |                                           |
|--------------|-------------------------------------------|
| Coupling     | Friction, accessories                     |
| Polarization | Keystone shape of shell                   |
| Termination  | PC tails, straight and 90°<br>Solder cups |

D\*JK Filter Performance



D\*JK Electrical Data

|                                                                                  |                    |
|----------------------------------------------------------------------------------|--------------------|
| Voltage rating (working)                                                         | 100 VDC            |
| Current rating                                                                   | 5 A                |
| Insulation resistance, electrification time 30 s, temperature 25°C               | 5000 MΩ min./100 V |
| Dielectric Withstanding Voltage (Sea Level) 500 micro amps max. charge/discharge | 250 VDC            |
| Filter Type C                                                                    | Capacitor          |
| Filter Symbol per DIN                                                            |                    |

| Filter designation                         | 5                   | 4                   | 3                   | 2                   | 1                   |
|--------------------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Capacitance, type at 1 KHz, 0,1 Vrms, 25°C | 1500 pF             | 1000 pF             | 680 pF              | 470 pF              | 330 pF              |
| Frequency MHz                              | Attenuation db min. | Attenuation db min. | Attenuation db min. | Attenuation db min. | Attenuation db min. |
| 10                                         | 3                   | —                   | —                   | —                   | —                   |
| 30                                         | 20                  | 14                  | 10                  | 7                   | 2                   |
| 100                                        | 31                  | 27                  | 22                  | 18                  | 9                   |
| 300                                        | 39                  | 35                  | 30                  | 27                  | 18                  |
| 1000                                       | 47                  | 42                  | 37                  | 32                  | 28                  |
| 2000                                       | 51                  | 46                  | 42                  | 36                  | 31                  |

Attenuation per MIL-STD-220 at 25°C with no applied voltage or current

D\*JT Filter Performance



D\*JT Electrical Data

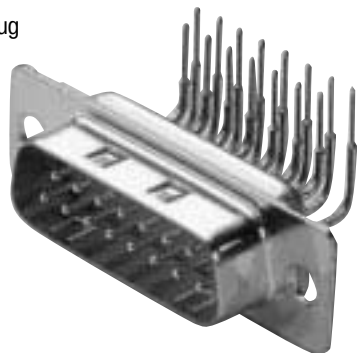
|                                                                                  |                                                |
|----------------------------------------------------------------------------------|------------------------------------------------|
| Voltage rating (working)                                                         | 200 VDC/120 Vrms, 400 Hz                       |
| Current rating                                                                   | 5 A (Size 20 contacts), 30 A (Size 8 contacts) |
| Insulation resistance, electrification time 30 s, temperature 25°C               | 10,000 MΩ min./100 V                           |
| Dielectric Withstanding Voltage (Sea Level) 500 micro amps max. charge/discharge | 500 VDC                                        |
| Filter type C                                                                    | Capacitor                                      |
| Filter symbol per DIN                                                            |                                                |

| Filter designation                         | 9                   | 5                   | 4                   | 6                   | 1                   | 2                   | 3                   |
|--------------------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Capacitance, type at 1 KHz, 0,1 Vrms, 25°C | 47000 pF            | 5000 pF             | 2000 pF             | 1500 pF             | 1000 pF             | 500 pF              | 250 pF              |
| Frequency MHz                              | Attenuation db min. | Attenuation db min. | Attenuation db min. | Attenuation db min. | Attenuation db min. | Attenuation db min. | Attenuation db min. |
| 5                                          | 30                  | 11                  | 6                   | 3                   | —                   | —                   | —                   |
| 10                                         | 37                  | 16                  | 10                  | 7                   | 5                   | 2                   | 1                   |
| 100                                        | 50                  | 35                  | 27                  | 23                  | 20                  | 16                  | 14                  |
| 1000                                       | 45                  | 54                  | 48                  | 46                  | 42                  | 37                  | 35                  |
| 2000                                       | —                   | 64                  | 60                  | —                   | 60                  | 60                  | 60                  |
| 5000                                       | —                   | 64                  | 64                  | —                   | 64                  | 64                  | 64                  |

Attenuation per MIL-STD-220 at 25°C with no applied voltage or current

D\*JK — 90° PC Tails — Standard Footprint .318♦ or .283 inch ♦♦

Plug



Reader's Resource  
For contact cavity arrangements,  
see page 224.  
For P.C. hole patterns, see page 272.  
For panel cutouts, see page 221.  
For hardware views (European),  
see page 227.

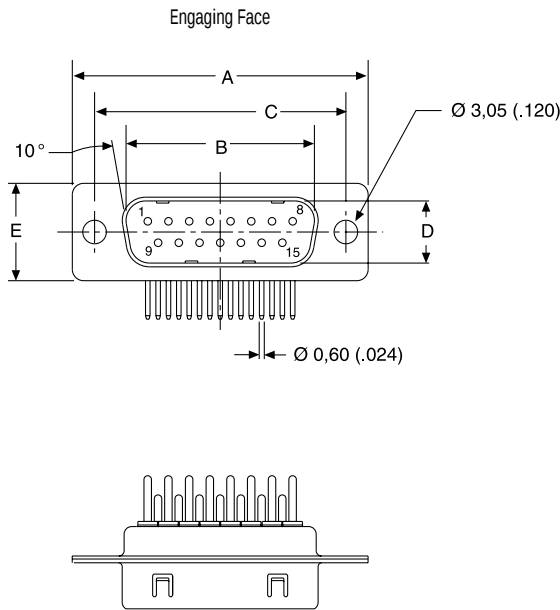
Part Numbers

| Shell Size | Layout | Through Hole  | Clinch Nut<br>#4-40 UNC |
|------------|--------|---------------|-------------------------|
| DE         | 9      | DEJK9P*-1U0N  | DEJKE9P*-1U0N           |
| DA         | 15     | DAJK15P*-1U0N | DAJKE15P*-1U0N          |
| DB         | 25     | DBJK25P*-1U0N | DBJKE25P*-1U0N          |
| DC         | 37     | DCJK37P*-1U0N | DCJKE37P*-1U0N          |

\* Insert filter designator. Example: DEJK9P4-1U0N (For 1000 pF Filter Capacitance)  
Note: For performance class 1 add -A190. Example: DEJK9P1-1U0N-A190

| Filter Designator* | Filter Capacitance |
|--------------------|--------------------|
| 1                  | 330 pF             |
| 2                  | 470 pF             |
| 3                  | 680 pF             |
| 4                  | 1000 pF            |
| 5                  | 1500 pF            |

For electrical data, see page 106.



Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,37 (.015) | W<br>±0,41 (.016) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,92 (.666)      | 24,99 (.984)      | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,69 (.264)       | —                 | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 25,25 (.994)      | 33,32 (1.312)     | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,69 (.264)       | —                 | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,96 (1.534)     | 47,04 (1.852)     | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | —                 | 6,84 (.269)       | 0,99 (.039)       |
| DC         | 69,32 (2.729)     | 55,42 (2.182)     | 63,50 (2.500)     | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | —                 | 6,84 (.269)       | 0,99 (.039)       |

♦ Connector footprint measured from the front shell.  
♦♦ Connector footprint measured from the rear shell.

D\*JK — 90° PC Tails — Standard Footprint .318♦ or .283 inch ♦♦

Receptacle



**Reader's Resource**  
For contact cavity arrangements, see page 224.  
For P.C. hole patterns, see page 272.  
For panel cutouts, see page 221.  
For hardware views (European), see page 227.

Part Numbers

| Shell Size | Layout | Through Hole  | Clinch Nut #4-40 UNC |
|------------|--------|---------------|----------------------|
| DE         | 9      | DEJK9S*-1U0N  | DEJKE9S*-1U0N        |
| DA         | 15     | DAJK15S*-1U0N | DAJKE15S*-1U0N       |
| DB         | 25     | DBJK25S*-1U0N | DBJKE25S*-1U0N       |
| DC         | 37     | DCJK37S*-1U0N | DCJKE37S*-1U0N       |

\* Insert filter designator. Example: DEJK9S4-1U0N (for 1000 pF Filter Capacitance)  
Note: For performance class 1, add -A190. Example: DEJK9S1-1U0N-A190

| Filter Designator* | Filter Capacitance |
|--------------------|--------------------|
| 1                  | 330 pF             |
| 2                  | 470 pF             |
| 3                  | 680 pF             |
| 4                  | 1000 pF            |
| 5                  | 1500 pF            |

For electrical data, see page 106.



Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,33 (.643)      | 24,99 (.984)      | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,38 (1.511)     | 47,04 (1.852)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DC         | 69,32 (2.729)     | 54,84 (2.159)     | 63,50 (2.500)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |

♦ Connector footprint measured from the front shell.  
♦♦ Connector footprint measured from the rear shell.

D\*JK — 90° PC Tails — European Footprint 10,2♦ or 9,4 mm♦♦

Plug



Reader's Resource

For contact cavity arrangements,  
see page 224.  
For P.C. hole patterns, see page 273.  
For panel cutouts, see page 221.  
For hardware options (European),  
see page 227.

Part Numbers

| Shell Size | Layout | Through Hole  | Clinch Nut<br>#4-40 UNC | Clinch Nut<br>M3 |
|------------|--------|---------------|-------------------------|------------------|
| DE         | 9      | DEJK9P*-1A0N  | DEJKE9P*-1A0N           | DEJKX9P*-1A0N    |
| DA         | 15     | DAJK15P*-1A0N | DAJKE15P*-1A0N          | DAJKX15P*-1A0N   |
| DB         | 25     | DBJK25P*-1A0N | DBJKE25P*-1A0N          | DBJKX25P*-1A0N   |
| DC         | 37     | DCJK37P*-1A0N | DCJKE37P*-1A0N          | DCJKX37P*-1A0N   |

\* Insert filter designator. Example: DEJK9P4-1A0N (For 1000 pF Filter Capacitance)  
Modifier: For performance class 1 add -A190. Example: DEJK9P1-1A0N-A190

| Filter Designator* | Filter Capacitance |
|--------------------|--------------------|
| 1                  | 330 pF             |
| 2                  | 470 pF             |
| 3                  | 680 pF             |
| 4                  | 1000 pF            |
| 5                  | 1500 pF            |

For electrical data, see page 106.



Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,37 (.015) | W<br>±0,41 (.016) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,92 (.666)      | 24,99 (.984)      | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,69 (.264)       | —                 | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 25,25 (.994)      | 33,32 (1.312)     | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,69 (.264)       | —                 | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,96 (1.534)     | 47,04 (1.852)     | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | —                 | 6,84 (.269)       | 0,99 (.039)       |
| DC         | 69,32 (2.729)     | 55,42 (2.182)     | 63,50 (2.500)     | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | —                 | 6,84 (.269)       | 0,99 (.039)       |

- ♦ Connector footprint measured from the front shell.
- ♦♦ Connector footprint measured from the rear shell.

## D\*JK — 90° PC Tails — European Footprint 10,2♦ or 9,4 mm♦♦

## Receptacle



## Part Numbers

| Shell Size | Layout | Through Hole  | Clinch Nut<br>#4-40 UNC | Clinch Nut<br>M3 |
|------------|--------|---------------|-------------------------|------------------|
| DE         | 9      | DEJK9S*-1A0N  | DEJKE9S*-1A0N           | DEJKX9S*-1A0N    |
| DA         | 15     | DAJK15S*-1A0N | DAJKE15S*-1A0N          | DAJKX15S*-1A0N   |
| DB         | 25     | DBJK25S*-1A0N | DBJKE25S*-1A0N          | DBJKX25S*-1A0N   |
| DC         | 37     | DCJK37S*-1A0N | DCJKE37S*-1A0N          | DCJKX37S*-1A0N   |

\* Insert filter designator. Example: DEJK9S4-1A0N (for 1000 pF Filter Capacitance)

Note: For performance class 1, add -A190. Example: DEJK9S1-1A0N-A190

## Reader's Resource

For contact cavity arrangements,  
see page 224.

For P.C. hole patterns, see page 273.

For panel cutouts, see page 221.

For hardware options (European),  
see page 227.

| Filter Designator* | Filter Capacitance |
|--------------------|--------------------|
| 1                  | 330 pF             |
| 2                  | 470 pF             |
| 3                  | 680 pF             |
| 4                  | 1000 pF            |
| 5                  | 1500 pF            |

For electrical data, see page 106.



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,33 (.643)      | 24,99 (.984)      | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,38 (1.511)     | 47,04 (1.852)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DC         | 69,32 (2.729)     | 54,84 (2.159)     | 63,50 (2.500)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |

♦ Connector footprint measured from the front shell.

♦♦ Connector footprint measured from the rear shell.

D\*JK — 90° PC Tails and Metal Brackets — Standard Footprint .318♦ or .283 inch♦♦

Plug

Reader's Resource

For contact cavity arrangements, see page 224.  
For P.C. hole patterns, see page 273.  
For panel cutouts, see page 221.  
For hardware views (European), see page 227.  
For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.  
For pushfit/boardlock configuration, see page 225.

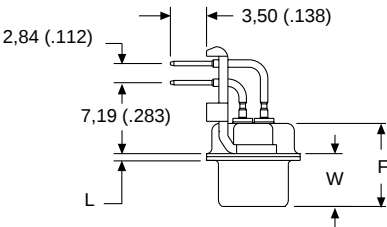
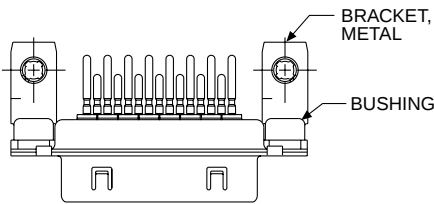
Part Numbers

| Shell Size | Layout | Bracket, #4-40 Nut | Bracket, #4-40 Nut, Boardlock |
|------------|--------|--------------------|-------------------------------|
| DE         | 9      | DEJK9P*-1U7N       | DEJK9P*-1U7N-146              |
| DA         | 15     | DAJK15P*-1U7N      | DAJK15P*-1U7N-146             |
| DB         | 25     | DBJK25P*-1U7N      | DBJK25P*-1U7N-146             |
| DC         | 37     | DCJK37P*-1U7N      | DCJK37P*-1U7N-146             |

Insert filter designator \*. Example: DEJK9P4-1U7N-146 (For 1000 pF Filter Capacitance)  
Note: For performance class 1, add -A190. Example: DEJK9P4-1U7N-A190-146

| Filter Designator* | Filter Capacitance |
|--------------------|--------------------|
| 1                  | 330 pF             |
| 2                  | 470 pF             |
| 3                  | 680 pF             |
| 4                  | 1000 pF            |
| 5                  | 1500 pF            |

For electrical data, see page 106.



Boardlock removed for clarity

Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,368 (.0145) | W<br>±0,41 (.016) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,92 (.666)      | 24,99 (.984)      | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 25,25 (.994)      | 33,32 (1.312)     | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,96 (1.534)     | 47,04 (1.852)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       |
| DC         | 69,32 (2.729)     | 55,42 (2.182)     | 63,50 (2.500)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       |

- ♦ Connector footprint measured from the front shell.
- ♦♦ Connector footprint measured from the rear shell.

## D\*JK — 90° PC Tails and Metal Brackets — Standard Footprint .318♦ or .283 inch♦♦

## Receptacle

## Reader's Resource

For contact cavity arrangements,  
see page 224.

For P.C. hole patterns, see page 273.

For panel cutouts, see page 221.

For hardware views (European),  
see page 227.

For alternate bracket configuration (when  
connectors are supplied without boardlocks),  
see page 226.

For pushfit/boardlock configuration,  
see page 225.

## Part Numbers

| Shell Size | Layout | Bracket,<br>#4-40 Nut | Bracket,<br>#4-40 Nut,<br>Boardlock |
|------------|--------|-----------------------|-------------------------------------|
| DE         | 9      | DEJK9S*-1U7N          | DEJK9S*-1U7N-146                    |
| DA         | 15     | DAJK15S*-1U7N         | DAJK15S*-1U7N-146                   |
| DB         | 25     | DBJK25S*-1U7N         | DBJK25S*-1U7N-146                   |
| DC         | 37     | DCJK37S*-1U7N         | DCJK37S*-1U7N-146                   |

Insert filter designator \*. Example DEJK9S4-1U7N-146 (For 1000 pF Filter Capacitance)

Note: For performance class 1, add -A190. Example: DEJK9S4-1U7N-A190-146

| Filter Designator* | Filter Capacitance |
|--------------------|--------------------|
| 1                  | 330 pF             |
| 2                  | 470 pF             |
| 3                  | 680 pF             |
| 4                  | 1000 pF            |
| 5                  | 1500 pF            |

For electrical data, see page 106.



Boardlock removed for clarity

## Dimensions

| Shell Size | A<br>±0.38 (.015) | B<br>±0.13 (.005) | C<br>±0.13 (.005) | D<br>±0.13 (.005) | E<br>±0.38 (.015) | F<br>±0.25 (.010) | W<br>±0.38 (.015) | L<br>±0.25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 30.81 (1.213)     | 16.33 (.643)      | 24.99 (.984)      | 7.90 (.311)       | 12.55 (.494)      | 10.90 (.429)      | 6.94 (.273)       | 0.76 (.030)       |
| DA         | 39.14 (1.541)     | 24.66 (.971)      | 33.32 (1.312)     | 7.90 (.311)       | 12.55 (.494)      | 10.90 (.429)      | 6.94 (.273)       | 0.76 (.030)       |
| DB         | 53.04 (2.088)     | 38.38 (1.511)     | 47.04 (1.852)     | 7.90 (.311)       | 12.55 (.494)      | 10.90 (.429)      | 6.94 (.273)       | 0.76 (.030)       |
| DC         | 69.32 (2.729)     | 54.84 (2.159)     | 63.50 (2.500)     | 7.90 (.311)       | 12.55 (.494)      | 10.90 (.429)      | 6.94 (.273)       | 0.76 (.030)       |

♦ Connector footprint measured from the front shell.

♦♦ Connector footprint measured from the rear shell.

## D\*JK — 90° PC Tails and Metal Brackets — European Footprint 10,2♦ or 9,4 mm♦♦

## Plug



## Part Numbers

| Bushing with Through Hole | Captive Nut #4-40 UNC | Captive Nut M3 | Post #4-40 UNC | Post M3       |
|---------------------------|-----------------------|----------------|----------------|---------------|
| DEJK9P*-1AFN              | DEJK9P*-1A7N          | DEJK9P*-1A9N   | DEJK9P*-1A8N   | DEJK9P*-1AHN  |
| DAJK15P*-1AFN             | DAJK15P*-1A7N         | DAJK15P*-1A9N  | DAJK15P*-1A8N  | DAJK15P*-1AHN |
| DBJK25P*-1AFN             | DBJK25P*-1A7N         | DBJK25P*-1A9N  | DBJK25P*-1A8N  | DBJK25P*-1AHN |
| DCJK37P*-1AFN             | DCJK37P*-1A7N         | DCJK37P*-1A9N  | DCJK37P*-1A8N  | DCJK37P*-1AHN |

\* Insert filter designator. Example: DEJK9P4-1A7N (For 1000 pF capacitance)

Notes: For performance class 1 add -A190. Example: DEJK9P1-1AFN-A190

For pushfit/boardlocks add -146. Example: DEJK9P1-1AFN-A190-146

## Reader's Resource

For contact cavity arrangements, see page 224.

For P.C. hole patterns, see page 273.

For panel cutouts, see page 221.

For hardware views (European), see page 227.

For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.

For pushfit/boardlock configuration, see page 225.

| Filter Designator* | Filter Capacitance |
|--------------------|--------------------|
| 1                  | 330 pF             |
| 2                  | 470 pF             |
| 3                  | 680 pF             |
| 4                  | 1000 pF            |
| 5                  | 1500 pF            |

For electrical data, see page 106.



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,368 (.0145) | W<br>±0,41 (.016) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,92 (.666)      | 24,99 (.984)      | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 25,25 (.994)      | 33,32 (1.312)     | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,96 (1.534)     | 47,04 (1.852)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       |
| DC         | 69,32 (2.729)     | 55,42 (2.182)     | 63,50 (2.500)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       |

♦ Connector footprint measured from the front shell.

♦♦ Connector footprint measured from the rear shell.

## D\*JK — 90° PC Tails and Metal Brackets — European Footprint 10,2♦ or 9,4 mm♦♦

## Receptacle



## Part Numbers

| Bushing with Through Hole | Captive Nut #4-40 UNC | Captive Nut M3 | Post #4-40 UNC | Post M3       |
|---------------------------|-----------------------|----------------|----------------|---------------|
| DEJK9S*-1AFN              | DEJK9S*-1A7N          | DEJK9S*-1A9N   | DEJK9S*-1A8N   | DEJK9S*-1AHN  |
| DAJK15S*-1AFN             | DAJK15S*-1A7N         | DAJK15S*-1A9N  | DAJK15S*-1A8N  | DAJK15S*-1AHN |
| DBJK25S*-1AFN             | DBJK25S*-1A7N         | DBJK25S*-1A9N  | DBJK25S*-1A8N  | DBJK25S*-1AHN |
| DCJK37S*-1AFN             | DCJK37S*-1A7N         | DCJK37S*-1A9N  | DCJK37S*-1A8N  | DCJK37S*-1AHN |

\* Insert filter designator. Example: DEJK9S4-1A7N (For 1000 pF capacitance)

Notes: For performance class 1 add -A190. Example: DEJK9S1-1AFN-A190

For pushfit/boardlocks add -146. Example: DEJK9S1-1AFN-A190-146

| Filter Designator* | Filter Capacitance |
|--------------------|--------------------|
| 1                  | 330 pF             |
| 2                  | 470 pF             |
| 3                  | 680 pF             |
| 4                  | 1000 pF            |
| 5                  | 1500 pF            |

For electrical data, see page 106.

## Reader's Resource

For contact cavity arrangements, see page 224.

For P.C. hole patterns, see page 273.

For panel cutouts, see page 221.

For hardware views (European), see page 227.

For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.

For pushfit/boardlock configuration, see page 225.



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) | K<br>±0,318 (.0125) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,33 (.643)      | 24,99 (.984)      | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,38 (1.511)     | 47,04 (1.852)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DC         | 69,32 (2.729)     | 54,84 (2.159)     | 63,50 (2.500)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |

- ♦ Connector footprint measured from the front shell.
- ♦♦ Connector footprint measured from the rear shell.

## D\*JK — 90° PC Tails &amp; Plastic Brackets with Grounding Straps — European Footprint 10,2♦ or 9,4 mm♦♦

## Plug



## Part Numbers

| Bushing with Through Hole | Captive Nut #4-40 UNC | Captive Nut M3 | Post #4-40 UNC | Post M3       |
|---------------------------|-----------------------|----------------|----------------|---------------|
| DEJK9P*-1ADN              | DEJK9P*-1AWN          | DEJK9P*-1AVN   | DEJK9P*-1AJN   | DEJK9P*-1AGN  |
| DAJK15P*-1ADN             | DAJK15P*-1AWN         | DAJK15P*-1AVN  | DAJK15P*-1AJN  | DAJK15P*-1AGN |
| DBJK25P*-1ADN             | DBJK25P*-1AWN         | DBJK25P*-1AVN  | DBJK25P*-1AJN  | DBJK25P*-1AGN |
| DCJK37P*-1ADN             | DCJK37P*-1AWN         | DCJK37P*-1AVN  | DCJK37P*-1AJN  | DCJK37P*-1AGN |

\* Insert filter designator. Example: DEJK9P4-1AWN (For 1000 pF capacitance)

Notes: For performance class 1 add -A190. Example: DEJK9P1-1ADN-A190

For pushfit/boardlocks add -146. Example: DEJK9P1-1ADN-A190-146

## Reader's Resource

For contact cavity arrangements, see page 224.

For P.C. hole patterns, see page 273.

For panel cutouts, see page 221.

For hardware views (European), see page 227.

For pushfit/boardlock configuration, see page 225.

| Filter Designator* | Filter Capacitance |
|--------------------|--------------------|
| 1                  | 330 pF             |
| 2                  | 470 pF             |
| 3                  | 680 pF             |
| 4                  | 1000 pF            |
| 5                  | 1500 pF            |

For electrical data, see page 106.



## Dimensions

| Shell Size | A             | B             | C             | D            | E            | F            | W              | W            | L            |
|------------|---------------|---------------|---------------|--------------|--------------|--------------|----------------|--------------|--------------|
|            | ±0,38 (.015)  | ±0,13 (.005)  | ±0,13 (.005)  | ±0,13 (.005) | ±0,38 (.015) | ±0,25 (.010) | ±0,368 (.0145) | ±0,41 (.016) | ±0,25 (.010) |
| DE         | 30,81 (1.213) | 16,92 (.666)  | 24,99 (.984)  | 8,36 (.329)  | 12,55 (.494) | 10,72 (.422) | 6,693 (.2635)  | —            | 0,76 (.030)  |
| DA         | 39,14 (1.541) | 25,25 (.994)  | 33,32 (1.312) | 8,36 (.329)  | 12,55 (.494) | 10,72 (.422) | 6,693 (.2635)  | —            | 0,76 (.030)  |
| DB         | 53,04 (2.088) | 38,96 (1.534) | 47,04 (1.852) | 8,36 (.329)  | 12,55 (.494) | 10,82 (.426) | —              | 6,84 (.269)  | 0,99 (.039)  |
| DC         | 69,32 (2.729) | 55,42 (2.182) | 63,50 (2.500) | 8,36 (.329)  | 12,55 (.494) | 10,82 (.426) | —              | 6,84 (.269)  | 0,99 (.039)  |

- ♦ Connector footprint measured from the front shell.
- ♦♦ Connector footprint measured from the rear shell.

## D\*JK — 90° PC Tails &amp; Plastic Brackets with Grounding Straps — European Footprint 10,2♦ or 9,4 mm♦♦

## Receptacle



## Part Numbers

| Bushing with Through Hole | Captive Nut #4-40 UNC | Captive Nut M3 | Post #4-40 UNC | Post M3       |
|---------------------------|-----------------------|----------------|----------------|---------------|
| DEJK9S*-1ADN              | DEJK9S*-1AWN          | DEJK9S*-1AVN   | DEJK9S*-1AJN   | DEJK9S*-1AGN  |
| DAJK15S*-1ADN             | DAJK15S*-1AWN         | DAJK15S*-1AVN  | DAJK15S*-1AJN  | DAJK15S*-1AGN |
| DBJK25S*-1ADN             | DBJK25S*-1AWN         | DBJK25S*-1AVN  | DBJK25S*-1AJN  | DBJK25S*-1AGN |
| DCJK37S*-1ADN             | DCJK37S*-1AWN         | DCJK37S*-1AVN  | DCJK37S*-1AJN  | DCJK37S*-1AGN |

\* Insert filter designator. Example: DEJK9S4-1AWN (For 1000 pF capacitance)

Notes: For performance class 1 add -A190. Example: DEJKS1-1ADN-A190

For pushfit/boardlocks add -146. Example: DEJK9P1-1ADN-A190-146

## Reader's Resource

For contact cavity arrangements, see page 224.

For P.C. hole patterns, see page 273.

For panel cutouts, see page 221.

For hardware views (European), see page 227.

For pushfit/boardlock configuration, see page 225.

| Filter Designator* | Filter Capacitance |
|--------------------|--------------------|
| 1                  | 330 pF             |
| 2                  | 470 pF             |
| 3                  | 680 pF             |
| 4                  | 1000 pF            |
| 5                  | 1500 pF            |

For electrical data, see page 106.



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,33 (.643)      | 24,99 (.984)      | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,38 (1.511)     | 47,04 (1.852)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DC         | 69,32 (2.729)     | 54,84 (2.159)     | 63,50 (2.500)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |

♦ Connector footprint measured from the front shell.

♦♦ Connector footprint measured from the rear shell.

D\*JK — 90° PC Tails & Plastic Brackets — European Footprint 10,2♦ or 9,4 mm♦♦

Plug



Part Numbers

| Bushing with Through Hole | Captive Nut #4-40 UNC | Captive Nut M3 | Post #4-40 UNC | Post M3       |
|---------------------------|-----------------------|----------------|----------------|---------------|
| DEJK9P*-1A5N              | DEJK9P*-1AUN          | DEJK9P*-1ATN   | DEJK9P*-1A6N   | DEJK9P*-1APN  |
| DAJK15P*-1A5N             | DAJK15P*-1AUN         | DAJK15P*-1ATN  | DAJK15P*-1A6N  | DAJK15P*-1APN |
| DBJK25P*-1A5N             | DBJK25P*-1AUN         | DBJK25P*-1ATN  | DBJK25P*-1A6N  | DBJK25P*-1APN |
| DCJK37P*-1A5N             | DCJK37P*-1AUN         | DCJK37P*-1ATN  | DCJK37P*-1A6N  | DCJK37P*-1APN |

\* Insert filter designator. Example: DEJK9P4-1A5N (For 1000 pF filter capacitance)  
 Notes: For performance class 1 add -A190. Example: DEJK9P1-1A5N-A190  
 For pushfit/boardlocks add -146. Example: DEJK9P1-1A5N-A190-146

Reader's Resource

For contact cavity arrangements, see page 224.  
 For P.C. hole patterns, see page 273.  
 For panel cutouts, see page 221.  
 For hardware views (European), see page 227.  
 For pushfit/boardlock configuration, see page 225.

| Filter Designator* | Filter Capacitance |
|--------------------|--------------------|
| 1                  | 330 pF             |
| 2                  | 470 pF             |
| 3                  | 680 pF             |
| 4                  | 1000 pF            |
| 5                  | 1500 pF            |

For electrical data, see page 106.



Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,37 (.015) | W<br>±0,41 (.016) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,92 (.666)      | 24,99 (.984)      | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,69 (.264)       | —                 | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 25,25 (.994)      | 33,32 (1.312)     | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,69 (.264)       | —                 | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,96 (1.534)     | 47,04 (1.852)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                 | 6,84 (.269)       | 0,99 (.039)       |
| DC         | 69,32 (2.729)     | 55,42 (2.182)     | 63,50 (2.500)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                 | 6,84 (.269)       | 0,99 (.039)       |

♦ Connector footprint measured from the front shell.  
 ♦♦ Connector footprint measured from the rear shell.

## D\*JK — 90° PC Tails and Plastic Brackets — European Footprint 10,2♦ or 9,4 mm♦♦

## Receptacle



## Part Numbers

| Bushing with Through Hole | Captive Nut #4-40 UNC | Captive Nut M3 | Post #4-40 UNC | Post M3       |
|---------------------------|-----------------------|----------------|----------------|---------------|
| DEJK9S*-1A5N              | DEJK9S*-1AUN          | DEJK9S*-1ATN   | DEJK9S*-1A6N   | DEJK9S*-1APN  |
| DAJK15S*-1A5N             | DAJK15S*-1AUN         | DAJK15S*-1ATN  | DAJK15S*-1A6N  | DAJK15S*-1APN |
| DBJK25S*-1A5N             | DBJK25S*-1AUN         | DBJK25S*-1ATN  | DBJK25S*-1A6N  | DBJK25S*-1APN |
| DCJK37S*-1A5N             | DCJK37S*-1AUN         | DCJK37S*-1ATN  | DCJK37S*-1A6N  | DCJK37S*-1APN |

\* Insert filter designator. Example: DEJK9S4-1A5N (for 1000 pF filter capacitance)

Notes: For performance class 1 add -A190. Example: DEJK9S1-1A5N-A190

For pushfit/boardlocks add -146. Example: DEJK9S1-1A5N-A190-146

## Reader's Resource

For contact cavity arrangements, see page 224.

For P.C. hole patterns, see page 273.

For panel cutouts, see page 221.

For hardware views (European), see page 227.

For pushfit/boardlock configuration, see page 225.

| Filter Designator* | Filter Capacitance |
|--------------------|--------------------|
| 1                  | 330 pF             |
| 2                  | 470 pF             |
| 3                  | 680 pF             |
| 4                  | 1000 pF            |
| 5                  | 1500 pF            |

For electrical data, see page 106.



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,33 (.643)      | 24,99 (.984)      | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,38 (1.511)     | 47,04 (1.852)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DC         | 69,32 (2.729)     | 54,84 (2.159)     | 63,50 (2.500)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |

- ♦ Connector footprint measured from the front shell.
- ♦♦ Connector footprint measured from the rear shell.

## D\*JK — Straight P.C. Tails

## Plug



## Part Numbers

| Shell Size | Layout | Through Hole | Clinch Nut<br>#4-40 UNC | Clinch Nut<br>M3 | Pushfit/Boardlock<br>#4-40 UNC | Pushfit/Boardlock<br>M3 |
|------------|--------|--------------|-------------------------|------------------|--------------------------------|-------------------------|
| DE         | 9      | DEJK9P*-OL4  | DEJKE9P*-OL4            | DEJKX9P*-OL4     | DEJKE9P*-OL4-146               | DEJKX9P*-OL4-146        |
| DA         | 15     | DAJK15P*-OL4 | DAJKE15P*-OL4           | DAJKX15P*-OL4    | DAJKE15P*-OL4-146              | DAJKX15P*-OL4-146       |
| DB         | 25     | DBJK25P*-OL4 | DBJKE25P*-OL4           | DBJKX25P*-OL4    | DBJKE25P*-OL4-146              | DBJKX25P*-OL4-146       |
| DC         | 37     | DCJK37P*-OL4 | DCJKE37P*-OL4           | DCJKX37P*-OL4    | DCJKE37P*-OL4-146              | DCJKX37P*-OL4-146       |
| DD         | 50     | DDJK50P*-OL4 | DDJKE50P*-OL4           | DDJKX50P*-OL4    | DDJKE50P*-OL4-146              | DDJKX50P*-OL4-146       |

\* Insert filter designator. Example: DEJK9P4-OL4 (for 1000 pF filter capacitance)

Note: For performance class 1 add -A190. Example: DEJK9P1-OL4-A190

## Reader's Resource

For contact cavity arrangements,  
see page 224.  
For P.C. hole patterns, see page 274.  
For panel cutouts, see page 221.  
For Hardware views (European),  
see page 227.  
For pushfit/boardlock configuration,  
see page 225.

| Filter Designator* | Filter Capacitance |
|--------------------|--------------------|
| 1                  | 330 pF             |
| 2                  | 470 pF             |
| 3                  | 680 pF             |
| 4                  | 1000 pF            |
| 5                  | 1500 pF            |

For electrical data, see page 106.

Engaging Face



DD Configuration



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,368 (.0145) | W<br>±0,41 (.016) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,92 (.666)      | 24,99 (.984)      | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 25,25 (.994)      | 33,32 (1.312)     | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,96 (1.534)     | 47,04 (1.852)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       |
| DC         | 69,32 (2.729)     | 55,42 (2.182)     | 63,50 (2.500)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       |
| DD         | 66,93 (2.635)     | 52,81 (2.079)     | 61,11 (2.406)     | 11,07 (.439)      | 15,37 (.607)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       |

## D\*JK — Straight P.C. Tails

## Receptacle



## Reader's Resource

For contact cavity arrangements,  
see page 224.  
For P.C. hole patterns, see page 274.  
For panel cutouts, see page 221.  
For Hardware views (European),  
see page 227.  
For pushfit/boardlock configuration,  
see page 225.

## Part Numbers

| Shell Size | Layout | Through Hole | Clinch Nut<br>#4-40 UNC | Clinch Nut<br>M3 | Pushfit/Boardlock<br>#4-40 UNC | Pushfit/Boardlock<br>M3 |
|------------|--------|--------------|-------------------------|------------------|--------------------------------|-------------------------|
| DE         | 9      | DEJK9S*-OL4  | DEJKE9S*-OL4            | DEJKX9S*-OL4     | DEJKE9S*-OL4-146               | DEJKX9S*-OL4-146        |
| DA         | 15     | DAJK15S*-OL4 | DAJKE15S*-OL4           | DAJKX15S*-OL4    | DAJKE15S*-OL4-146              | DAJKX15S*-OL4-146       |
| DB         | 25     | DBJK25S*-OL4 | DBJKE25S*-OL4           | DBJKX25S*-OL4    | DBJKE25S*-OL4-146              | DBJKX25S*-OL4-146       |
| DC         | 37     | DCJK37S*-OL4 | DCJKE37S*-OL4           | DCJKX37S*-OL4    | DCJKE37S*-OL4-146              | DCJKX37S*-OL4-146       |

\* Insert filter designator. Example: DEJK9S4-OL4 (for 1000 pF filter capacitance)

Note: For performance class 1 add -A190. Example: DEJK9S1-OL4-A190

| Filter Designator* | Filter Capacitance |
|--------------------|--------------------|
| 1                  | 330 pF             |
| 2                  | 470 pF             |
| 3                  | 680 pF             |
| 4                  | 1000 pF            |
| 5                  | 1500 pF            |

For electrical data, see page 106.



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,33 (.643)      | 24,99 (.984)      | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,38 (1.511)     | 47,04 (1.852)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DC         | 69,32 (2.729)     | 54,84 (2.159)     | 63,50 (2.500)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |

D\*JT — Solder Cup

Plug



Part Numbers

| Shell Size | Layout | Through Hole | Clinch Nut #4-40 UNC | Clinch Nut M3 |
|------------|--------|--------------|----------------------|---------------|
| DE         | 9      | DEJT9P*      | DEJTE9P*             | DEJTX9P*      |
| DA         | 15     | DAJT15P*     | DAJTE15P*            | DAJTX15P*     |
| DB         | 25     | DBJT25P*     | DBJTE25P*            | DBJTX25P*     |
| DC         | 37     | DCJT37P*     | DCJTE37P*            | DCJTX37P*     |

\* Insert filter designator. Example: DCJT37P4 (for 2000 pF filter capacitance)  
Note: For performance class 1 add -A190. Example: DCJT37P1-A190

Reader's Resource

For contact cavity arrangements,  
see page 224.  
For panel cutouts, see page 221.  
For hardware views (European),  
see page 227.

| Filter Designator* | Filter Capacitance |
|--------------------|--------------------|
| 1                  | 1000 pF            |
| 2                  | 500 pF             |
| 3                  | 250 pF             |
| 4                  | 2000 pF            |
| 5                  | 5000 pF            |

For electrical data, see page 107.



Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,37 (.015) | W<br>±0,41 (.016) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,92 (.666)      | 24,99 (.984)      | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,69 (.264)       | —                 | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 25,25 (.994)      | 33,32 (1.312)     | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,69 (.264)       | —                 | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,96 (1.534)     | 47,04 (1.852)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                 | 6,84 (.269)       | 0,99 (.039)       |
| DC         | 69,32 (2.729)     | 55,42 (2.182)     | 63,50 (2.500)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                 | 6,84 (.269)       | 0,99 (.039)       |

D\*JT — Solder Cup

Receptacle



**Reader's Resource**  
For contact cavity arrangements, see page 224.  
For panel cutouts, see page 221.  
For hardware views (European), see page 227.

Part Numbers

| Shell Size | Layout | Through Hole | Clinch Nut #4-40 UNC | Clinch Nut M3 |
|------------|--------|--------------|----------------------|---------------|
| DE         | 9      | DEJT9S*      | DEJTE9S*             | DEJTX9S*      |
| DA         | 15     | DAJT15S*     | DAJTE15S*            | DAJTX15S*     |
| DB         | 25     | DBJT25S*     | DBJTE25S*            | DBJTX25S*     |
| DC         | 37     | DCJT37S*     | DCJTE37S*            | DCJTX37S*     |

\* Insert filter designator. Example: DEJT9S4 (for 2000 pF filter capacitance)  
Note: For performance class 1 add -A190. Example: DEJT9S1-A190

| Filter Designator* | Filter Capacitance |
|--------------------|--------------------|
| 1                  | 1000 pF            |
| 2                  | 500 pF             |
| 3                  | 250 pF             |
| 4                  | 2000 pF            |
| 5                  | 5000 pF            |

For electrical data, see page 107.



Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,33 (.643)      | 24,99 (.984)      | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,38 (1.511)     | 47,04 (1.852)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DC         | 69,32 (2.729)     | 54,84 (2.159)     | 63,50 (2.500)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |

D\*JT Combo — High Power 90°

Plug

Reader's Resource  
For contact cavity arrangements, see page 222.  
For P.C. hole patterns, see page 250.  
For panel cutouts, see page 221.  
For hardware views (European), see page 227.

Part Numbers

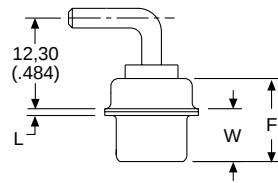
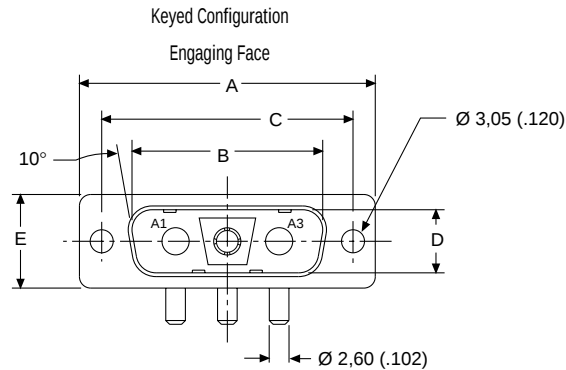
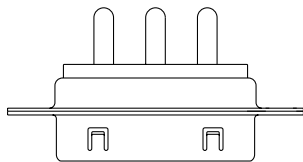
| Filter Capacitance | Through Hole   | Clinch Nut #4-40 UNC | Clinch Nut M3   |
|--------------------|----------------|----------------------|-----------------|
| 1000 pF            | DAJT3W3P1-1A0N | DAJTE3W3P1-1A0N      | DAJTX3W3P1-1A0N |
| 1500 pF            | DAJT3W3P6-1A0N | DAJTE3W3P6-1A0N      | DAJTX3W3P6-1A0N |
| 5000 pF            | DAJT3W3P5-1A0N | DAJTE3W3P5-1A0N      | DAJTX3W3P5-1A0N |
| 47000 pF           | DAJT3W3P9-1A0N | DAJTE3W3P9-1A0N      | DAJTX3W3P9-1A0N |

Note: For performance class 1 add -A190. Example: DAJT3WK3P6-1A0N-A190

Part Numbers — Keyed Configuration

| Filter Capacitance | Through Hole    | Clinch Nut #4-40 UNC | Clinch Nut M3    |
|--------------------|-----------------|----------------------|------------------|
| 1000 pF            | DAJT3WK3P1-1A0N | DAJTE3WK3P1-1A0N     | DAJTX3WK3P1-1A0N |
| 1500 pF            | DAJT3WK3P6-1A0N | DAJTE3WK3P6-1A0N     | DAJTX3WK3P6-1A0N |
| 5000 pF            | DAJT3WK3P5-1A0N | DAJTE3WK3P5-1A0N     | DAJTX3WK3P5-1A0N |
| 47000 pF           | DAJT3WK3P9-1A0N | DAJTE3WK3P9-1A0N     | DAJTX3WK3P9-1A0N |

Note: For performance class 1 add -A190. Example: DAJT3WK3P6-1A0N-A190  
For electrical data, see page 107.



Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,368 (.0145) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|
| DA         | 39,14 (1.541)     | 25,25 (.994)      | 33,32 (1.312)     | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | 0,76 (.030)       |

D\*JT Combo — High Power 90°

Receptacle

Reader's Resource  
For contact cavity arrangements, see page 223.  
For P.C. hole patterns, see page 252.  
For panel cutouts, see page 221.  
For hardware views (European), see page 227.

Part Numbers

| Filter Capacitance | Through Hole   | Clinch Nut #4-40 UNC | Clinch Nut M3   |
|--------------------|----------------|----------------------|-----------------|
| 1000 pF            | DAJT3W3S1-1A0N | DAJTE3W3S1-1A0N      | DAJTX3W3S1-1A0N |
| 1500 pF            | DAJT3W3S6-1A0N | DAJTE3W3S6-1A0N      | DAJTX3W3S6-1A0N |
| 5000 pF            | DAJT3W3S5-1A0N | DAJTE3W3S5-1A0N      | DAJTX3W3S5-1A0N |
| 47000 pF           | DAJT3W3S9-1A0N | DAJTE3W3S9-1A0N      | DAJTX3W3S9-1A0N |

Note: For performance class 1 add -A190. Example: DAJT3W3S9-1A0N-A190

Part Numbers — Keyed Configuration

| Filter Capacitance | Through Hole    | Clinch Nut #4-40 UNC | Clinch Nut M3    |
|--------------------|-----------------|----------------------|------------------|
| 1000 pF            | DAJT3WK3S1-1A0N | DAJTE3WK3S1-1A0N     | DAJTX3WK3S1-1A0N |
| 1500 pF            | DAJT3WK3S6-1A0N | DAJTE3WK3S6-1A0N     | DAJTX3WK3S6-1A0N |
| 5000 pF            | DAJT3WK3S5-1A0N | DAJTE3WK3S5-1A0N     | DAJTX3WK3S5-1A0N |
| 47000pF            | DAJT3WK3S9-1A0N | DAJTE3WK3S9-1A0N     | DAJTX3WK3S9-1A0N |

Note: For performance class 1 add -A190. Example: DAJT3WK3S9-1A0N-A190  
For electrical data, see page 107.



Dimensions

| Shell Size | A             | B            | C             | D            | E            | F            | W            | L            |
|------------|---------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|
| DA         | ±0,38 (.015)  | ±0,13 (.005) | ±0,13 (.005)  | ±0,13 (.005) | ±0,38 (.015) | ±0,25 (.010) | ±0,38 (.015) | ±0,25 (.010) |
|            | 39,14 (1.541) | 24,66 (.971) | 33,32 (1.312) | 7,90 (.311)  | 12,55 (.494) | 10,90 (.429) | 6,94 (.273)  | 0,76 (.030)  |

D\*JT Combo — High Power Straight

Plug



**Reader's Resource**  
 For contact cavity arrangements, see page 222.  
 For P.C. hole patterns, see page 254.  
 For panel cutouts, see page 221.  
 For hardware views (European), see page 227.

Part Numbers

| Filter Capacitance | Through Hole  | Clinch Nut #4-40 UNC | Clinch Nut M3  |
|--------------------|---------------|----------------------|----------------|
| 1000 pF            | DAJT3W3P1-OL4 | DAJTE3W3P1-OL4       | DAJTX3W3P1-OL4 |
| 1500 pF            | DAJT3W3P6-OL4 | DAJTE3W3P6-OL4       | DAJTX3W3P6-OL4 |
| 5000 pF            | DAJT3W3P5-OL4 | DAJTE3W3P5-OL4       | DAJTX3W3P5-OL4 |
| 47000 pF           | DAJT3W3P9-OL4 | DAJTE3W3P9-OL4       | DAJTX3W3P9-OL4 |

Note: For performance class 1 add -A190. Example: DAJT3W3P6-OL4-A190

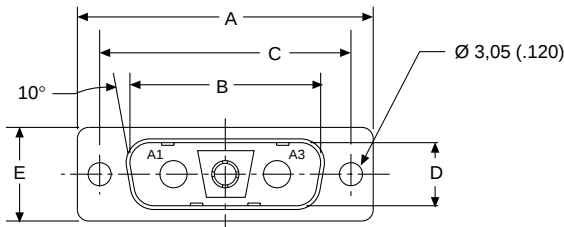
Part Numbers — Keyed Configuration

| Filter Capacitance | Through Hole   | Clinch Nut #4-40 UNC | Clinch Nut M3   |
|--------------------|----------------|----------------------|-----------------|
| 1000 pF            | DAJT3WK3P1-OL4 | DAJTE3WK3P1-OL4      | DAJTX3WK3P1-OL4 |
| 1500 pF            | DAJT3WK3P6-OL4 | DAJTE3WK3P6-OL4      | DAJTX3WK3P6-OL4 |
| 5000 pF            | DAJT3WK3P5-OL4 | DAJTE3WK3P5-OL4      | DAJTX3WK3P5-OL4 |
| 47000 pF           | DAJT3WK3P9-OL4 | DAJTE3WK3P9-OL4      | DAJTX3WK3P9-OL4 |

Note: For performance class 1 add -A190. Example: DAJT3WK3P6-OL4-A190  
 For electrical data, see page 107.



Keyed Configuration  
 Engaging Face



Dimensions

| Shell Size | A             | B            | C             | D            | E            | F            | W              | L            |
|------------|---------------|--------------|---------------|--------------|--------------|--------------|----------------|--------------|
| DA         | ±0,38 (.015)  | ±0,13 (.005) | ±0,13 (.005)  | ±0,13 (.005) | ±0,38 (.015) | ±0,25 (.010) | ±0,368 (.0145) | ±0,25 (.010) |
|            | 39,14 (1.541) | 25,25 (.994) | 33,32 (1.312) | 8,36 (.329)  | 12,55 (.494) | 10,72 (.422) | 6,693 (.2635)  | 0,76 (.030)  |

D\*JT Combo — High Power Straight

Receptacle

Reader's Resource  
For contact cavity arrangements, see page 223.  
For P.C. hole patterns, see page 257.  
For panel cutouts, see page 221.  
For hardware views (European), see page 227.

Part Numbers

| Filter Capacitance | Through Hole  | Clinch Nut #4-40 UNC | Clinch Nut M3  |
|--------------------|---------------|----------------------|----------------|
| 1000 pF            | DAJT3W3S1-OL4 | DAJTE3W3S1-OL4       | DAJTX3W3S1-OL4 |
| 1500 pF            | DAJT3W3S6-OL4 | DAJTE3W3S6-OL4       | DAJTX3W3S6-OL4 |
| 5000 pF            | DAJT3W3S5-OL4 | DAJTE3W3S5-OL4       | DAJTX3W3S5-OL4 |
| 47000 pF           | DAJT3W3S9-OL4 | DAJTE3W3S9-OL4       | DAJTX3W3S9-OL4 |

Note: For performance class 1 add -A190. Example: DAJT3W3S6-OL4-A190

Part Numbers — Keyed Configuration

| Filter Capacitance | Through Hole   | Clinch Nut #4-40 UNC | Clinch Nut M3   |
|--------------------|----------------|----------------------|-----------------|
| 1000 pF            | DAJT3WK3S1-OL4 | DAJTE3WK3S1-OL4      | DAJTX3WK3S1-OL4 |
| 1500 pF            | DAJT3WK3S6-OL4 | DAJTE3WK3S6-OL4      | DAJTX3WK3S6-OL4 |
| 5000 pF            | DAJT3WK3S5-OL4 | DAJTE3WK3S5-OL4      | DAJTX3WK3S5-OL4 |
| 47000 pF           | DAJT3WK3S9-OL4 | DAJTE3WK3S9-OL4      | DAJTX3WK3S9-OL4 |

Note: For performance class 1 add -A190. Example: DAJT3WK3S-OL4-A190  
For electrical data, see page 107.



Dimensions

|            | A             | B            | C             | D            | E            | F            | W            | L            |
|------------|---------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|
| Shell Size | ±0,38 (.015)  | ±0,13 (.005) | ±0,13 (.005)  | ±0,13 (.005) | ±0,38 (.015) | ±0,25 (.010) | ±0,38 (.015) | ±0,25 (.010) |
| DA         | 39,14 (1.541) | 24,66 (.971) | 33,32 (1.312) | 7,90 (.311)  | 12,55 (.494) | 10,90 (.429) | 6,94 (.273)  | 0,76 (.030)  |

D\*JT Combo — High Power Solder Cup

Plug



**Reader's Resource**  
For contact cavity arrangements, see page 222.  
For panel cutouts, see page 221.  
For hardware views (European), see page 227.

Part Numbers

| Filter Capacitance | Through Hole | Clinch Nut #4-40 UNC | Clinch Nut M3 |
|--------------------|--------------|----------------------|---------------|
| 1000 pF            | DAJT3W3P1    | DAJTE3W3P1           | DAJTX3W3P1    |
| 1500 pF            | DAJT3W3P6    | DAJTE3W3P6           | DAJTX3W3P6    |
| 5000 pF            | DAJT3W3P5    | DAJTE3W3P5           | DAJTX3W3P5    |
| 47000 pF           | DAJT3W3P9    | DAJTE3W3P9           | DAJTX3W3P9    |

Note: For performance class 1 add -A190. Example: DAJT3W3P6-A190

Part Numbers – Keyed Configuration

| Filter Capacitance | Through Hole | Clinch Nut #4-40 UNC | Clinch Nut M3 |
|--------------------|--------------|----------------------|---------------|
| 1000 pF            | DAJT3WK3P1   | DAJTE3WK3P1          | DAJTX3WK3P1   |
| 1500 pF            | DAJT3WK3P6   | DAJTE3WK3P6          | DAJTX3WK3P6   |
| 5000 pF            | DAJT3WK3P5   | DAJTE3WK3P5          | DAJTX3WK3P5   |
| 47000 pF           | DAJT3WK3P9   | DAJTE3WK3P9          | DAJTX3WK3P9   |

Note: For performance class 1 add -A190. Example: DAJT3WK3P6-A190  
For electrical data, see page 107.



Dimensions

|            | A             | B            | C             | D            | E            | F            | W              | L            |
|------------|---------------|--------------|---------------|--------------|--------------|--------------|----------------|--------------|
| Shell Size | ±0,38 (.015)  | ±0,13 (.005) | ±0,13 (.005)  | ±0,13 (.005) | ±0,38 (.015) | ±0,25 (.010) | ±0,368 (.0145) | ±0,25 (.010) |
| DA         | 39,14 (1.541) | 25,25 (.994) | 33,32 (1.312) | 8,36 (.329)  | 12,55 (.494) | 10,72 (.422) | 6,693 (.2635)  | 0,76 (.030)  |

## D\*JT Combo — High Power Solder Cup

## Receptacle



## Reader's Resource

For contact cavity arrangements,  
see page 223.  
For panel cutouts, see page 221.  
For hardware views (European),  
see page 227.

## Part Numbers

| Filter Capacitance | Through Hole | Clinch Nut #4-40 UNC | Clinch Nut M3 |
|--------------------|--------------|----------------------|---------------|
| 1000 pF            | DAJT3W3S1    | DAJTE3W3S1           | DAJTX3W3S1    |
| 1500 pF            | DAJT3W3S6    | DAJTE3W3S6           | DAJTX3W3S6    |
| 5000 pF            | DAJT3W3S5    | DAJTE3W3S5           | DAJTX3W3S5    |
| 47000 pF           | DAJT3W3S9    | DAJTE3W3S9           | DAJTX3W3S9    |

Note: For performance class 1 add -A190. Example: DAJT3W3S6-A190

## Part Numbers — Keyed Configuration

| Filter Capacitance | Through Hole | Clinch Nut #4-40 UNC | Clinch Nut M3 |
|--------------------|--------------|----------------------|---------------|
| 1000 pF            | DAJT3WK3S1   | DAJTE3WK3S1          | DAJTX3WK3S1   |
| 1500 pF            | DAJT3WK3S6   | DAJTE3WK3S6          | DAJTX3WK3S6   |
| 5000 pF            | DAJT3WK3S5   | DAJTE3WK3S5          | DAJTX3WK3S5   |
| 47000 pF           | DAJT3WK3S9   | DAJTE3WK3S9          | DAJTX3WK3S9   |

Note: For performance class 1 add -A190. Example: DAJT3WK3S6-A190  
For electrical data, see page 107.



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DA         | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |

| Selection Index                                                             | Page |
|-----------------------------------------------------------------------------|------|
| <b>Military/High Reliability</b>                                            |      |
| An Introduction . . . . .                                                   | 130  |
| <b>Standard Layout</b>                                                      |      |
| 90° PC Tail with Plastic Bracket . . . . .                                  | 132  |
| 90° PC Tail. . . . .                                                        | 134  |
| Straight PC Tail . . . . .                                                  | 136  |
| Wrap Post Connector . . . . .                                               | 138  |
| Solder Cup Connector . . . . .                                              | 140  |
| 24308-Style Cross Reference . . . . .                                       | 142  |
| MIL-C-39028 Crimp Contacts . . . . .                                        | 143  |
| HE501/D*M Cross Reference . . . . .                                         | 144  |
| MIL-24308 Test Data . . . . .                                               | 145  |
| <b>Combo D® PCB Connectors with Coaxial 75 Ohm Contacts (50 Ohm Option)</b> |      |
| Coaxial 90° (Sizes DE-DC) . . . . .                                         | 146  |
| Coaxial 90° (Size DD) . . . . .                                             | 148  |
| Coaxial Straight (Sizes DE-DC) . . . . .                                    | 150  |
| Coaxial Straight (Size DD) . . . . .                                        | 152  |
| <b>Combo D® PCB Connectors with High Power Contacts</b>                     |      |
| 40 A High Power 90° (Sizes DE-DC) . . . . .                                 | 154  |
| 40 A High Power 90° (Size DD) . . . . .                                     | 156  |
| 40 A High Power Straight (Sizes DE-DC) . . . . .                            | 158  |
| 40 A High Power Straight (Size DD) . . . . .                                | 160  |
| <b>Combo D® PCB Connectors with High Voltage Contacts</b>                   |      |
| High Voltage Straight (Sizes DE-DC) . . . . .                               | 162  |
| High Voltage Straight (Size DD) . . . . .                                   | 164  |
| <b>Combo D® PCB Connectors with (Size 20) Signal Contacts Only</b>          |      |
| Cable Solder Cup (Sizes DE-DD) . . . . .                                    | 166  |

ITT Cannon Military/High Reliability D Subminiature connectors are used in many applications, including aerospace, transportation, communication systems, information systems and test equipment. Being the inventor of the D Subminiature connector, ITT Cannon is able to use its extensive design expertise and high quality manufacturing processes to insure the optimum performance and reliability.

The D Subminiature connectors with fixed contacts in solder cup, straight and 90° PC contact terminations are designed to be comparable to MIL-C-24308 (see cross reference, pages 142-143). These high-reliability D Subminiature connectors are the finest quality connectors available at the most competitive prices in the market.

#### Applications:

- Aerospace
- Transportation
- Communication Systems
- Information Systems
- Test Equipment



### Product Features

Suitable for a variety of cable and printed circuit board options

Solder cup version accommodates wire size 20 AWG maximum

5 A standard current rating  
Clinch Nut and Float Mount Options

### Specifications

|                                                |                                       |                                                      |                                           |
|------------------------------------------------|---------------------------------------|------------------------------------------------------|-------------------------------------------|
| Temperature Rating                             | –55°C to 125°C                        | Coaxial VSWR                                         | Less than 1.30 + .03F for F up to 500 MHz |
| Signal Contact Current Rating                  | 7.5 A current capacity                | Coaxial Insertion Loss                               | .3dB loss at 500 MHz                      |
| Signal Contact Resistance                      | 55 millivolt max. at 7.5 test current | High Power Current Rating                            | Up to 40 A                                |
| Signal Contact Dielectric Withstanding Voltage | 1250 VAC at Sea Level                 | High Power Dielectric Withstanding Voltage           | 1000 VAC at Sea Level                     |
| Coaxial Current Rating                         | 5 A                                   | High Voltage Current Rating                          | 5 A                                       |
| Coaxial Dielectric Withstanding Voltage        | 1000 VAC at Sea Level                 | High Voltage Contact Dielectric Withstanding Voltage | 2800 V at Sea Level                       |
| Coaxial Impedance                              | 75 Ω or 50 Ω                          |                                                      |                                           |

### Materials and Finishes

| Description               | Material                            | Finish/Treatment                                                                |
|---------------------------|-------------------------------------|---------------------------------------------------------------------------------|
| Shell                     | Steel                               | Yellow Chromate over Zinc<br>(Cadmium available upon request; order code -A101) |
| Insulator                 | Polyester, UL 94V-0, Color: Green   | None                                                                            |
| Contacts (Military)       | Copper Alloy                        | 50 microinches of Gold over Nickel in mating area, Gold over Nickel on balance  |
| Contacts (Commercial)     | Copper Alloy                        | Gold over Nickel on mating area, Tin on balance                                 |
| Dual Float Mount Hardware | Stainless Steel                     | Passivated                                                                      |
| Clinch Nut Hardware       | Stainless Steel with plastic insert | Passivated                                                                      |
| Standoff                  | Stainless Steel                     | Passivated                                                                      |
| Plastic Bracket           | Thermoplastic, UL 94V-0             | None                                                                            |
| Metal Bracket             | Steel                               | Zinc (Tin if boardlocks are attached)                                           |

#### Coaxial/High Power/High Voltage Contact Assemblies

|                               |               |                  |
|-------------------------------|---------------|------------------|
| Contacts and Outer Shells     | Copper Alloy  | Gold over Nickel |
| Ring, Retaining               | Copper Alloy  | Nickel           |
| Insulator (Coaxial Only)      | Teflon        | None             |
| Insulator (High Voltage Only) | Thermoplastic | None             |

## 90° PC Tail with Plastic Bracket

## Plug



## Part Numbers

|            |        | Military Part Numbers |                  |                  |                    |                  |                  |
|------------|--------|-----------------------|------------------|------------------|--------------------|------------------|------------------|
|            |        | Ø Y<br>0,76 (.030)    |                  |                  | Ø Y<br>1,02 (.040) |                  |                  |
| Shell Size | Layout | X<br>3,23 (.127)      | X<br>4,01 (.158) | X<br>4,65 (.183) | X<br>3,23 (.127)   | X<br>4,01 (.158) | X<br>4,65 (.183) |
| DE         | 9      | DEMM9PD               | DEMM9PL          | DEMM9PS          | DEMM9PA            | DEMM9PG          | DEMM9PW          |
| DA         | 15     | DAMM15PD              | DAMM15PL         | DAMM15PS         | DAMM15PA           | DAMM15PG         | DAMM15PW         |
| DB         | 25     | DBMM25PD              | DBMM25PL         | DBMM25PS         | DBMM25PA           | DBMM25PG         | DBMM25PW         |
| DC         | 37     | DCMM37PD              | DCMM37PL         | DCMM37PS         | DCMM37PA           | DCMM37PG         | DCMM37PW         |
| DD         | 50     | DDMM50PD              | DDMM50PL         | DDMM50PS         | DDMM50PA           | DDMM50PG         | DDMM50PW         |

## Reader's Resource

For contact cavity arrangements,  
see page 224.

For P.C. hole patterns, see page 272.

For panel cutouts, see page 221.

|            |        | Commercial Part Numbers |                  |                  |                    |                  |                  |
|------------|--------|-------------------------|------------------|------------------|--------------------|------------------|------------------|
|            |        | Ø Y<br>0,76 (.030)      |                  |                  | Ø Y<br>1,02 (.040) |                  |                  |
| Shell Size | Layout | X<br>3,23 (.127)        | X<br>4,01 (.158) | X<br>4,65 (.183) | X<br>3,23 (.127)   | X<br>4,01 (.158) | X<br>4,65 (.183) |
| DE         | 9      | DEM9PD                  | DEM9PL           | DEM9PS           | DEM9PA             | DEM9PG           | DEM9PW           |
| DA         | 15     | DAM15PD                 | DAM15PL          | DAM15PS          | DAM15PA            | DAM15PG          | DAM15PW          |
| DB         | 25     | DBM25PD                 | DBM25PL          | DBM25PS          | DBM25PA            | DBM25PG          | DBM25PW          |
| DC         | 37     | DCM37PD                 | DCM37PL          | DCM37PS          | DCM37PA            | DCM37PG          | DCM37PW          |
| DD         | 50     | DDM50PD                 | DDM50PL          | DDM50PS          | DDM50PA            | DDM50PG          | DDM50PW          |



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,368 (.0145) | W<br>±0,41 (.016) | L<br>±0,25 (.010) | M<br>±0,25 (.010) | N<br>±0,13 (.005) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,92 (.666)      | 24,99 (.984)      | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 0,76 (.030)       | 12,30 (.484)      | 8,64 (.340)       |
| DA         | 39,14 (1.541)     | 25,25 (.994)      | 33,32 (1.312)     | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 0,76 (.030)       | 12,30 (.484)      | 8,64 (.340)       |
| DB         | 53,04 (2.088)     | 38,96 (1.534)     | 47,04 (1.852)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       | 12,30 (.484)      | 8,64 (.340)       |
| DC         | 69,32 (2.729)     | 55,42 (2.182)     | 63,50 (2.500)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       | 12,30 (.484)      | 8,64 (.340)       |
| DD         | 66,93 (2.635)     | 52,81 (2.079)     | 61,11 (2.406)     | 11,07 (.436)      | 15,37 (.605)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       | 15,09 (.594)      | 10,04 (.395)      |

## 90° PC Tail with Plastic Bracket

## Receptacle



## Part Numbers

|            |        | Military Part Numbers |                  |                  |                    |                  |                  |
|------------|--------|-----------------------|------------------|------------------|--------------------|------------------|------------------|
|            |        | Ø Y<br>0,76 (.030)    |                  |                  | Ø Y<br>1,02 (.040) |                  |                  |
| Shell Size | Layout | X<br>3,23 (.127)      | X<br>4,01 (.158) | X<br>4,65 (.183) | X<br>3,23 (.127)   | X<br>4,01 (.158) | X<br>4,65 (.183) |
| DE         | 9      | DEMM9SD               | DEMM9SL          | DEMM9SS          | DEMM9SA            | DEMM9SG          | DEMM9SW          |
| DA         | 15     | DAMM15SD              | DAMM15SL         | DAMM15SS         | DAMM15SA           | DAMM15SG         | DAMM15SW         |
| DB         | 25     | DBMM25SD              | DBMM25SL         | DBMM25SS         | DBMM25SA           | DBMM25SG         | DBMM25SW         |
| DC         | 37     | DCMM37SD              | DCMM37SL         | DCMM37SS         | DCMM37SA           | DCMM37SG         | DCMM37SW         |
| DD         | 50     | DDMM50SD              | DDMM50SL         | DDMM50SS         | DDMM50SA           | DDMM50SG         | DDMM50SW         |

## Reader's Resource

For contact cavity arrangements,  
see page 224.

For P.C. hole patterns, see page 272.

For panel cutouts, see page 221.

|            |        | Commercial Part Numbers |                  |                  |                    |                  |                  |
|------------|--------|-------------------------|------------------|------------------|--------------------|------------------|------------------|
|            |        | Ø Y<br>0,76 (.030)      |                  |                  | Ø Y<br>1,02 (.040) |                  |                  |
| Shell Size | Layout | X<br>3,23 (.127)        | X<br>4,01 (.158) | X<br>4,65 (.183) | X<br>3,23 (.127)   | X<br>4,01 (.158) | X<br>4,65 (.183) |
| DE         | 9      | DEM9SD                  | DEM9SL           | DEM9SS           | DEM9SA             | DEM9SG           | DEM9SW           |
| DA         | 15     | DAM15SD                 | DAM15SL          | DAM15SS          | DAM15SA            | DAM15SG          | DAM15SW          |
| DB         | 25     | DBM25SD                 | DBM25SL          | DBM25SS          | DBM25SA            | DBM25SG          | DBM25SW          |
| DC         | 37     | DCM37SD                 | DCM37SL          | DCM37SS          | DCM37SA            | DCM37SG          | DCM37SW          |
| DD         | 50     | DDM50SD                 | DDM50SL          | DDM50SS          | DDM50SA            | DDM50SG          | DDM50SW          |



## DD Configuration



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) | L<br>±0,25 (.010) | M<br>±0,25 (.010) | N<br>±0,13 (.005) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,33 (.643)      | 24,99 (.984)      | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       | 12,30 (.484)      | 8,64 (.340)       |
| DA         | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       | 12,30 (.484)      | 8,64 (.340)       |
| DB         | 53,04 (2.088)     | 38,38 (1.511)     | 47,04 (1.852)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       | 12,30 (.484)      | 8,64 (.340)       |
| DC         | 69,32 (2.729)     | 54,84 (2.159)     | 63,50 (2.500)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       | 12,30 (.484)      | 8,64 (.340)       |
| DD         | 66,93 (2.635)     | 52,42 (2.064)     | 61,11 (2.406)     | 10,74 (.423)      | 15,37 (.605)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       | 15,09 (.594)      | 10,04 (.395)      |

## 90° PC Tail

## Plug



## Reader's Resource

For contact cavity arrangements,  
see page 224.

For P.C. hole patterns, see page 272.

For panel cutouts, see page 221.

For hardware views (Standard), see page 226.

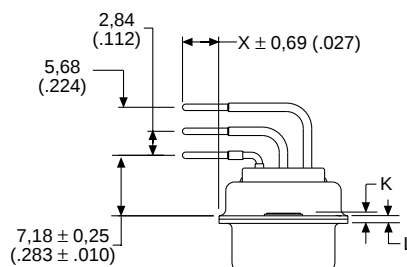
## Part Numbers

|            |        | Military Part Numbers |                  |                  |                    |                  |  |
|------------|--------|-----------------------|------------------|------------------|--------------------|------------------|--|
|            |        | Ø Y<br>0,76 (.030)    |                  |                  | Ø Y<br>1,02 (.040) |                  |  |
| Shell Size | Layout | X<br>3,23 (.127)      | X<br>4,01 (.158) | X<br>4,65 (.183) | X<br>3,23 (.127)   | X<br>4,01 (.158) |  |
| DE         | 9      | DEMM9PF               | DEMM9PP          | DEMM9PR          | DEMM9PC            | DEMM9PK          |  |
| DA         | 15     | DAMM15PF              | DAMM15PP         | DAMM15PR         | DAMM15PC           | DAMM15PK         |  |
| DB         | 25     | DBMM25PF              | DBMM25PP         | DBMM25PR         | DBMM25PC           | DBMM25PK         |  |
| DC         | 37     | DCMM37PF              | DCMM37PP         | DCMM37PR         | DCMM37PC           | DCMM37PK         |  |
| DD         | 50     | DDMM50PF              | DDMM50PP         | DDMM50PR         | DDMM50PC           | DDMM50PK         |  |

|            |        | Commercial Part Numbers |                  |                  |                    |                  |  |
|------------|--------|-------------------------|------------------|------------------|--------------------|------------------|--|
|            |        | Ø Y<br>0,76 (.030)      |                  |                  | Ø Y<br>1,02 (.040) |                  |  |
| Shell Size | Layout | X<br>3,23 (.127)        | X<br>4,01 (.158) | X<br>4,65 (.183) | X<br>3,23 (.127)   | X<br>4,01 (.158) |  |
| DE         | 9      | DEM9PF                  | DEM9PP           | DEM9PR           | DEM9PC             | DEM9PK           |  |
| DA         | 15     | DAM15PF                 | DAM15PP          | DAM15PR          | DAM15PC            | DAM15PK          |  |
| DB         | 25     | DBM25PF                 | DBM25PP          | DBM25PR          | DBM25PC            | DBM25PK          |  |
| DC         | 37     | DCM37PF                 | DCM37PP          | DCM37PR          | DCM37PC            | DCM37PK          |  |
| DD         | 50     | DDM50PF                 | DDM50PP          | DDM50PR          | DDM50PC            | DDM50PK          |  |



DD Configuration



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,368 (.0145) | W<br>±0,41 (.016) | K<br>±0,317 (.0125) | K<br>±0,25 (.010) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|---------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,92 (.666)      | 24,99 (.984)      | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 1,206 (.0475)       | —                 | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 25,25 (.994)      | 33,32 (1.312)     | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 1,206 (.0475)       | —                 | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,96 (1.534)     | 47,04 (1.852)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | —                   | 1,52 (.060)       | 0,99 (.039)       |
| DC         | 69,32 (2.729)     | 55,42 (2.182)     | 63,50 (2.500)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | —                   | 1,52 (.060)       | 0,99 (.039)       |
| DD         | 66,93 (2.635)     | 52,81 (2.079)     | 61,11 (2.406)     | 11,07 (.436)      | 15,37 (.605)      | 10,82 (.426)      | —                   | 6,84 (.269)       | —                   | 1,52 (.060)       | 0,99 (.039)       |

## 90° PC Tail

## Receptacle



## Part Numbers

|            |        | Military Part Numbers |                  |                  |                    |                  |  |
|------------|--------|-----------------------|------------------|------------------|--------------------|------------------|--|
|            |        | Ø Y<br>0,76 (.030)    |                  |                  | Ø Y<br>1,02 (.040) |                  |  |
| Shell Size | Layout | X<br>3,23 (.127)      | X<br>4,01 (.158) | X<br>4,65 (.183) | X<br>3,23 (.127)   | X<br>4,01 (.158) |  |
| DE         | 9      | DEMM9SF               | DEMM9SP          | DEMM9SR          | DEMM9SC            | DEMM9SK          |  |
| DA         | 15     | DAMM15SF              | DAMM15SP         | DAMM15SR         | DAMM15SC           | DAMM15SK         |  |
| DB         | 25     | DBMM25SF              | DBMM25SP         | DBMM25SR         | DBMM25SC           | DBMM25SK         |  |
| DC         | 37     | DCMM37SF              | DCMM37SP         | DCMM37SR         | DCMM37SC           | DCMM37SK         |  |
| DD         | 50     | DDMM50SF              | DDMM50SP         | DDMM50SR         | DDMM50SC           | DDMM50SK         |  |

## Reader's Resource

For contact cavity arrangements,  
see page 224.

For P.C. hole patterns, see page 272.

For panel cutouts, see page 221.

For hardware view (Standard), see page 226.

|            |        | Commercial Part Numbers |                  |                  |                    |                  |  |
|------------|--------|-------------------------|------------------|------------------|--------------------|------------------|--|
|            |        | Ø Y<br>0,76 (.030)      |                  |                  | Ø Y<br>1,02 (.040) |                  |  |
| Shell Size | Layout | X<br>3,23 (.127)        | X<br>4,01 (.158) | X<br>4,65 (.183) | X<br>3,23 (.127)   | X<br>4,01 (.158) |  |
| DE         | 9      | DEM9SF                  | DEM9SP           | DEM9SR           | DEM9SC             | DEM9SK           |  |
| DA         | 15     | DAM15SF                 | DAM15SP          | DAM15SR          | DAM15SC            | DAM15SK          |  |
| DB         | 25     | DBM25SF                 | DBM25SP          | DBM25SR          | DBM25SC            | DBM25SK          |  |
| DC         | 37     | DCM37SF                 | DCM37SP          | DCM37SR          | DCM37SC            | DCM37SK          |  |
| DD         | 50     | DDM50SF                 | DDM50SP          | DDM50SR          | DDM50SC            | DDM50SK          |  |

Engaging Face



DD Configuration



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) | K<br>±0,318 (.0125) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,33 (.643)      | 24,99 (.984)      | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,38 (1.511)     | 47,04 (1.852)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DC         | 69,32 (2.729)     | 54,84 (2.159)     | 63,50 (2.500)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DD         | 66,93 (2.635)     | 52,42 (2.064)     | 61,11 (2.406)     | 10,74 (.423)      | 15,37 (.605)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |

## Straight PC Tail

## Plug



## Part Numbers

|            |        | Military Part Numbers |                  |                  |                    |                  |                  |
|------------|--------|-----------------------|------------------|------------------|--------------------|------------------|------------------|
|            |        | Ø Y<br>0,76 (.030)    |                  |                  | Ø Y<br>1,02 (.040) |                  |                  |
| Shell Size | Layout | X<br>3,23 (.127)      | X<br>4,01 (.158) | X<br>4,65 (.183) | X<br>3,23 (.127)   | X<br>4,01 (.158) | X<br>4,65 (.183) |
| DE         | 9      | DEMM9PE*              | DEMM9PM*         | DEMM9PZ*         | DEMM9PB            | DEMM9PH          | DEMM9PX*         |
| DA         | 15     | DAMM15PE*             | DAMM15PM*        | DAMM15PZ*        | DAMM15PB           | DAMM15PH         | DAMM15PX*        |
| DB         | 25     | DBMM25PE*             | DBMM25PM*        | DBMM25PZ*        | DBMM25PB           | DBMM25PH         | DBMM25PX*        |
| DC         | 37     | DCMM37PE*             | DCMM37PM*        | DCMM37PZ*        | DCMM37PB           | DCMM37PH         | DCMM37PX*        |
| DD         | 50     | DDMM50PE*             | DDMM50PM*        | DDMM50PZ*        | DDMM50PB           | DDMM50PH         | DDMM50PX*        |

Note: Spacers (shipped loose) provided only on parts marked \*

## Reader's Resource

For contact cavity arrangements,  
see page 224.

For P.C. hole patterns, see page 274.

For panel cutouts, see page 221.

For hardware views (Standard), see page 226.

|            |        | Commercial Part Numbers |                  |                  |                    |                  |                  |
|------------|--------|-------------------------|------------------|------------------|--------------------|------------------|------------------|
|            |        | Ø Y<br>0,76 (.030)      |                  |                  | Ø Y<br>1,02 (.040) |                  |                  |
| Shell Size | Layout | X<br>3,23 (.127)        | X<br>4,01 (.158) | X<br>4,65 (.183) | X<br>3,23 (.127)   | X<br>4,01 (.158) | X<br>4,65 (.183) |
| DE         | 9      | DEM9PE                  | DEM9PM           | DEM9PZ           | DEM9PB             | DEM9PH           | DEM9PX           |
| DA         | 15     | DAM15PE                 | DAM15PM          | DAM15PZ          | DAM15PB            | DAM15PH          | DAM15PX          |
| DB         | 25     | DBM25PE                 | DBM25PM          | DBM25PZ          | DBM25PB            | DBM25PH          | DBM25PX          |
| DC         | 37     | DCM37PE                 | DCM37PM          | DCM37PZ          | DCM37PB            | DCM37PH          | DCM37PX          |
| DD         | 50     | DDM50PE                 | DDM50PM          | DDM50PZ          | DDM50PB            | DDM50PH          | DDM50PX          |



## DD Configuration



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,368 (.0145) | W<br>±0,41 (.016) | K<br>±0,317 (.0125) | K<br>±0,25 (.010) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|---------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,92 (.666)      | 24,99 (.984)      | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 1,206 (.0475)       | —                 | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 25,25 (.994)      | 33,32 (1.312)     | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 1,206 (.0475)       | —                 | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,96 (1.534)     | 47,04 (1.852)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | —                   | 1,52 (.060)       | 0,99 (.039)       |
| DC         | 69,32 (2.729)     | 55,42 (2.182)     | 63,50 (2.500)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | —                   | 1,52 (.060)       | 0,99 (.039)       |
| DD         | 66,93 (2.635)     | 52,81 (2.079)     | 61,11 (2.406)     | 11,07 (.436)      | 15,37 (.605)      | 10,82 (.426)      | —                   | 6,84 (.269)       | —                   | 1,52 (.060)       | 0,99 (.039)       |

## Straight PC Tail

## Receptacle



## Part Numbers

|            |        | Military Part Numbers |                  |                  |                    |                  |                  |
|------------|--------|-----------------------|------------------|------------------|--------------------|------------------|------------------|
|            |        | Ø Y<br>0,76 (.030)    |                  |                  | Ø Y<br>1,02 (.040) |                  |                  |
| Shell Size | Layout | X<br>3,23 (.127)      | X<br>4,01 (.158) | X<br>4,65 (.183) | X<br>3,23 (.127)   | X<br>4,01 (.158) | X<br>4,65 (.183) |
| DE         | 9      | DEMM9SE*              | DEMM9SM*         | DEMM9SZ*         | DEMM9SB            | DEMM9SH          | DEMM9SX*         |
| DA         | 15     | DAMM15SE*             | DAMM15SM*        | DAMM15SZ*        | DAMM15SB           | DAMM15SH         | DAMM15SX*        |
| DB         | 25     | DBMM25SE*             | DBMM25SM*        | DBMM25SZ*        | DBMM25SB           | DBMM25SH         | DBMM25SX*        |
| DC         | 37     | DCMM37SE*             | DCMM37SM*        | DCMM37SZ*        | DCMM37SB           | DCMM37SH         | DCMM37SX*        |
| DD         | 50     | DDMM50SE*             | DDMM50SM*        | DDMM50SZ*        | DDMM50SB           | DDMM50SH         | DDMM50SX*        |

Note: Spacers (shipped loose) provided only on parts marked \*

## Reader's Resource

For contact cavity arrangements,  
see page 224.

For P.C. hole patterns, see page 274.

For panel cutouts, see page 221.

For hardware views (Standard), see page 226.

|            |        | Commercial Part Numbers |                  |                  |                    |                  |                  |
|------------|--------|-------------------------|------------------|------------------|--------------------|------------------|------------------|
|            |        | Ø Y<br>0,76 (.030)      |                  |                  | Ø Y<br>1,02 (.040) |                  |                  |
| Shell Size | Layout | X<br>3,23 (.127)        | X<br>4,01 (.158) | X<br>4,65 (.183) | X<br>3,23 (.127)   | X<br>4,01 (.158) | X<br>4,65 (.183) |
| DE         | 9      | DEM9SE                  | DEM9SM           | DEM9SZ           | DEM9SB             | DEM9SH           | DEM9SX           |
| DA         | 15     | DAM15SE                 | DAM15SM          | DAM15SZ          | DAM15SB            | DAM15SH          | DAM15SX          |
| DB         | 25     | DBM25SE                 | DBM25SM          | DBM25SZ          | DBM25SB            | DBM25SH          | DBM25SX          |
| DC         | 37     | DCM37SE                 | DCM37SM          | DCM37SZ          | DCM37SB            | DCM37SH          | DCM37SX          |
| DD         | 50     | DDM50SE                 | DDM50SM          | DDM50SZ          | DDM50SB            | DDM50SH          | DDM50SX          |



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) | K<br>±0,318 (.0125) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,33 (.643)      | 24,99 (.984)      | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,38 (1.511)     | 47,04 (1.852)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DC         | 69,32 (2.729)     | 54,84 (2.159)     | 63,50 (2.500)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DD         | 66,93 (2.635)     | 52,42 (2.064)     | 61,11 (2.406)     | 10,74 (.423)      | 15,37 (.605)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |

## Wrap Post Connector

Plug



Part Numbers

| Shell Size | Layout | Military Part Numbers |              |
|------------|--------|-----------------------|--------------|
| DE         | 9      | DEMM9PF179            | DEMM9PF179A  |
| DA         | 15     | DAMM15PF179           | DAMM15PF179A |
| DB         | 25     | DBMM25PF179           | DBMM25PF179A |
| DC         | 37     | DCMM37PF179           | DCMM37PF179A |
| DD         | 50     | DDMM50PF179           | DDMM50PF179A |

| Shell Size | Layout | Commercial Part Numbers |             |
|------------|--------|-------------------------|-------------|
| DE         | 9      | DEM9PF179               | DEM9PF179A  |
| DA         | 15     | DAM15PF179              | DAM15PF179A |
| DB         | 25     | DBM25PF179              | DBM25PF179A |
| DC         | 37     | DCM37PF179              | DCM37PF179A |
| DD         | 50     | DDM50PF179              | DDM50PF179A |

## Reader's Resource

For contact cavity arrangements,  
see page 224.

For P.C. hole patterns, see page 274.

For panel cutouts, see page 221.

For hardware views (Standard), see page 226.

| Modification Code | Number of Wraps | X<br>±0,51 (.020) |
|-------------------|-----------------|-------------------|
| F179              | 2               | 9,60 (.378)       |
| F179A             | 3               | 12,90 (.508)      |



DD Configuration



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,368 (.0145) | W<br>±0,41 (.016) | K<br>±0,317 (.0125) | K<br>±0,25 (.010) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|---------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,92 (.666)      | 24,99 (.984)      | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 1,206 (.0475)       | —                 | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 25,25 (.994)      | 33,32 (1.312)     | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 1,206 (.0475)       | —                 | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,96 (1.534)     | 47,04 (1.852)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | —                   | 1,52 (.060)       | 0,99 (.039)       |
| DC         | 69,32 (2.729)     | 55,42 (2.182)     | 63,50 (2.500)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | —                   | 1,52 (.060)       | 0,99 (.039)       |
| DD         | 66,93 (2.635)     | 52,81 (2.079)     | 61,11 (2.406)     | 11,07 (.436)      | 15,37 (.605)      | 10,82 (.426)      | —                   | 6,84 (.269)       | —                   | 1,52 (.060)       | 0,99 (.039)       |

Wrap Post Connector

Receptacle



Reader's Resource  
For contact cavity arrangements, see page 224.  
For P.C. hole patterns, see page 274.  
For panel cutouts, see page 221.  
For hardware views (Standard), see page 226.

Part Numbers

| Shell Size | Layout | Military Part Numbers |              |
|------------|--------|-----------------------|--------------|
| DE         | 9      | DEMM9SF179            | DEMM9SF179A  |
| DA         | 15     | DAMM15SF179           | DAMM15SF179A |
| DB         | 25     | DBMM25SF179           | DBMM25SF179A |
| DC         | 37     | DCMM37SF179           | DCMM37SF179A |
| DD         | 50     | DDMM50SF179           | DDMM50SF179A |

| Shell Size | Layout | Commercial Part Numbers |             |
|------------|--------|-------------------------|-------------|
| DE         | 9      | DEM9SF179               | DEM9SF179A  |
| DA         | 15     | DAM15SF179              | DAM15SF179A |
| DB         | 25     | DBM25SF179              | DBM25SF179A |
| DC         | 37     | DCM37SF179              | DCM37SF179A |
| DD         | 50     | DDM50SF179              | DDM50SF179A |

| Modification Code | Number of Wraps | X<br>±0,51 (.020) |
|-------------------|-----------------|-------------------|
| F179              | 2               | 9,60 (.378)       |
| F179A             | 3               | 12,90 (.508)      |



DD Configuration



Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) | K<br>±0,318 (.0125) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,33 (.643)      | 24,99 (.984)      | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,38 (1.511)     | 47,04 (1.852)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DC         | 69,32 (2.729)     | 54,84 (2.159)     | 63,50 (2.500)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DD         | 66,93 (2.635)     | 52,42 (2.064)     | 61,11 (2.406)     | 10,74 (.423)      | 15,37 (.605)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |

Solder Cup Connector

Plug



Reader's Resource  
For contact cavity arrangements, see page 224.  
For panel cutouts, see page 221.  
For hardware views (Standard), see page 226.

Part Numbers

| Shell Size | Layout | Military Part Numbers |                  |                      |
|------------|--------|-----------------------|------------------|----------------------|
|            |        | Through Hole          | Dual Float Mount | Clinch Nut #4-40 UNC |
| DE         | 9      | DEMM9P                | DEMMY9P          | DEMME9P              |
| DA         | 15     | DAMM15P               | DAMMY15P         | DAMME15P             |
| DB         | 25     | DBMM25P               | DBMMY25P         | DBMME25P             |
| DC         | 37     | DCMM37P               | DCMMY37P         | DCMME37P             |
| DD         | 50     | DDMM50P               | DDMMY50P         | DDMME50P             |

| Shell Size | Layout | Commercial Part Numbers |                  |                      |
|------------|--------|-------------------------|------------------|----------------------|
|            |        | Through Hole            | Dual Float Mount | Clinch Nut #4-40 UNC |
| DE         | 9      | DEM9P                   | DEMY9P           | DEME9P               |
| DA         | 15     | DAM15P                  | DAMY15P          | DAME15P              |
| DB         | 25     | DBM25P                  | DBMY25P          | DBME25P              |
| DC         | 37     | DCM37P                  | DCMY37P          | DCME37P              |
| DD         | 50     | DDM50P                  | DDMY50P          | DDME50P              |



Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,368 (.0145) | W<br>±0,41 (.016) | K<br>±0,317 (.0125) | K<br>±0,25 (.010) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|---------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,92 (.666)      | 24,99 (.984)      | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 1,206 (.0475)       | —                 | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 25,25 (.994)      | 33,32 (1.312)     | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 1,206 (.0475)       | —                 | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,96 (1.534)     | 47,04 (1.852)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | —                   | 1,52 (.060)       | 0,99 (.039)       |
| DC         | 69,32 (2.729)     | 55,42 (2.182)     | 63,50 (2.500)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | —                   | 1,52 (.060)       | 0,99 (.039)       |
| DD         | 66,93 (2.635)     | 52,81 (2.079)     | 61,11 (2.406)     | 11,07 (.436)      | 15,37 (.605)      | 10,82 (.426)      | —                   | 6,84 (.269)       | —                   | 1,52 (.060)       | 0,99 (.039)       |

## Solder Cup Connector

## Receptacle



## Reader's Resource

For contact cavity arrangements,  
see page 224.

For panel cutouts, see page 221.

For hardware views (Standard), see page 226.

## Part Numbers

| Shell Size | Layout | Military Part Numbers |                  |                      |
|------------|--------|-----------------------|------------------|----------------------|
|            |        | Through Hole          | Dual Float Mount | Clinch Nut #4-40 UNC |
| DE         | 9      | DEMM9S                | DEMMY9S          | DEMME9S              |
| DA         | 15     | DAMM15S               | DAMMY15S         | DAMME15S             |
| DB         | 25     | DBMM25S               | DBMMY25S         | DBMME25S             |
| DC         | 37     | DCMM37S               | DCMMY37S         | DCMME37S             |
| DD         | 50     | DDMM50S               | DDMMY50S         | DDMME50S             |

| Shell Size | Layout | Commercial Part Numbers |                  |                      |
|------------|--------|-------------------------|------------------|----------------------|
|            |        | Through Hole            | Dual Float Mount | Clinch Nut #4-40 UNC |
| DE         | 9      | DEM9S                   | DEMY9S           | DEME9S               |
| DA         | 15     | DAM15S                  | DAMY15S          | DAME15S              |
| DB         | 25     | DBM25S                  | DBMY25S          | DBME25S              |
| DC         | 37     | DCM37S                  | DCMY37S          | DCME37S              |
| DD         | 50     | DDM50S                  | DDMY50S          | DDME50S              |



## DD Configuration



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) | K<br>±0,318 (.0125) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,33 (.643)      | 24,99 (.984)      | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,38 (1.511)     | 47,04 (1.852)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DC         | 69,32 (2.729)     | 54,84 (2.159)     | 63,50 (2.500)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DD         | 66,93 (2.635)     | 52,42 (2.064)     | 61,11 (2.406)     | 10,74 (.423)      | 15,37 (.605)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |

## 24308-Style Cross Reference

| Military Part Number | ITT Cannon Part Number | Military Part Number | ITT Cannon Part Number | Military Part Number | ITT Cannon Part Number |
|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|
| M24308/1-1           | DEMM9S                 | M24308/3-3           | DBMM25P                | M24308/6-261         | DBMAMF25SNM            |
| M24308/1-2           | DAMM15S                | M24308/3-4           | DCMM37P                | M24308/6-262         | DCMAMF37SNM            |
| M24308/1-3           | DBMM25S                | M24308/3-5           | DDMM50P                | M24308/6-263         | DDMAMF50SNM            |
| M24308/1-4           | DCMM37S                | M24308/3-12          | DEMMF9P                | M24308/6-270         | DEMMFT9SNM             |
| M24308/1-5           | DDMM50S                | M24308/3-13          | DAMMF15P               | M24308/6-271         | DAMAMFT15SNM           |
| M24308/1-12          | DEMMF9S                | M24308/3-14          | DBMMF25P               | M24308/6-272         | DBMAMFT25SNM           |
| M24308/1-13          | DAMMF15S               | M24308/3-15          | DCMMF37P               | M24308/6-273         | DCMAMFT37SNM           |
| M24308/1-14          | DBMMF25S               | M24308/3-16          | DDMMF50P               | M24308/6-274         | DDMAMFT50SNM           |
| M24308/1-15          | DCMMF37S               | M24308/4-1           | DEMAM9P                | M24308/6-281         | DEMAM9SNM-FO           |
| M24308/1-16          | DDMMF50S               | M24308/4-2           | DAMAM15P               | M24308/6-282         | DAMAM15SNM-FO          |
| M24308/1-23          | DEMMY9S                | M24308/4-3           | DBMAM25P               | M24308/6-283         | DBMAM25SNM-FO          |
| M24308/1-24          | DAMMY15S               | M24308/4-4           | DCMAM37P               | M24308/6-284         | DCMAM37SNM-FO          |
| M24308/1-25          | DBMMY25S               | M24308/4-5           | DDMAM50P               | M24308/6-285         | DDMAM50SNM-FO          |
| M24308/1-26          | DCMMY37S               | M24308/4-6           | DEMAMT9P               | M24308/6-324         | DEMAMF9SNM-FO          |
| M24308/1-27          | DDMMY50S               | M24308/4-7           | DAMAMT15P              | M24308/6-325         | DAMAMF15SNM-FO         |
| M24308/2-1           | DEMAM9S                | M24308/4-8           | DBMAMT25P              | M24308/6-326         | DBMAMF25SNM-FO         |
| M24308/2-2           | DAMAM15S               | M24308/4-9           | DCMAMT37P              | M24308/6-327         | DCMAMF37SNM-FO         |
| M24308/2-3           | DBMAM25S               | M24308/4-10          | DDMAMT50P              | M24308/6-328         | DDMAMF50SNM-FO         |
| M24308/2-4           | DCMAM37S               | M24308/4-259         | DEMAM9P-FO             | M24308/6-453         | DEMAMY9SNM             |
| M24308/2-5           | DDMAM50S               | M24308/4-260         | DAMAM15P-FO            | M24308/6-454         | DAMAMY15SNM            |
| M24308/2-6           | DEMAMT9S               | M24308/4-261         | DBMAMF25P-FO           | M24308/6-455         | DBMAMY25SNM            |
| M24308/2-7           | DAMAMT15S              | M24308/4-262         | DCMAM37P-FO            | M24308/6-456         | DCMAMY37SNM            |
| M24308/2-8           | DBMAMT25S              | M24308/4-263         | DDMAM50P-FO            | M24308/6-457         | DDMAMY50SNM            |
| M24308/2-9           | DCMAMT37S              | M24308/4-302         | DEMAMF9P               | M24308/6-464         | DEMEMY9SNM             |
| M24308/2-10          | DDMAMT50S              | M24308/4-303         | DAMAMF15P              | M24308/6-465         | DAMAMYT15SNM           |
| M24308/2-23          | DEMAMF9S               | M24308/4-304         | DBMAMF25P              | M24308/6-466         | DBMAMYT25SNM           |
| M24308/2-24          | DAMAMF15S              | M24308/4-305         | DCMAMF37P              | M24308/6-467         | DCMAMYT37SNM           |
| M24308/2-25          | DBMAMF25S              | M24308/4-306         | DDMAMF50P              | M24308/6-468         | DDMAMYT50SNM           |
| M24308/2-26          | DCMAMF37S              | M24308/4-313         | DEMAMFT9P              | M24308/6-491         | DEMAMY9SNM-FO          |
| M24308/2-27          | DDMAMF50S              | M24308/4-314         | DAMAMFT15P             | M24308/6-492         | DAMAMY15SNM-FO         |
| M24308/2-34          | DEMAMFT9S              | M24308/4-315         | DBMAMFT25P             | M24308/6-493         | DBMAMY25SNM-FO         |
| M24308/2-35          | DAMAMFT15S             | M24308/4-316         | DCMAMFT37P             | M24308/6-494         | DCMAMY37SNM-FO         |
| M24308/2-36          | DBMAMFT25S             | M24308/4-317         | DDMAMFT50P             | M24308/6-495         | DDMAMY50SNM-FO         |
| M24308/2-37          | DCMAMFT37S             | M24308/4-324         | DEMAMF9P-FO            | M24308/7-1           | DEMM9PNM               |
| M24308/2-38          | DDMAMFT50S             | M24308/4-325         | DAMAMF15P-FO           | M24308/7-2           | DAMM15PNM              |
| M24308/2-281         | DEMAM9S-FO             | M24308/4-326         | DBMAMF25P-FO           | M24308/7-3           | DBMM25PNM              |
| M24308/2-282         | DAMAM15S-FO            | M24308/4-327         | DCMAMF37P-FO           | M24308/7-4           | DCMM37PNM              |
| M24308/2-283         | DBMAM25S-FO            | M24308/4-328         | DDMAMF50P-FO           | M24308/7-5           | DDMM50PNM              |
| M24308/2-284         | DCMAM37S-FO            | M24308/5-1           | DEMM9SNM               | M24308/7-12          | DEMMF9PNM              |
| M24308/2-285         | DDMAM50S-FO            | M24308/5-2           | DAMM15SNM              | M24308/7-13          | DAMMF15PNM             |
| M24308/2-292         | DEMAMF9S-FO            | M24308/5-3           | DBMM25SNM              | M24308/7-14          | DBMMF25PNM             |
| M24308/2-293         | DAMAMF15S-FO           | M24308/5-4           | DCMM37SNM              | M24308/7-15          | DCMMF37PNM             |
| M24308/2-294         | DBMAMF25S-FO           | M24308/5-5           | DDMM50SNM              | M24308/7-16          | DDMMF50PNM             |
| M24308/2-295         | DCMAMF37S-FO           | M24308/5-12          | DEMMF9SNM              | M24308/8-1           | DEMAM9PNM              |
| M24308/2-296         | DDMAMF50S-FO           | M24308/5-13          | DAMMF15SNM             | M24308/8-2           | DAMAM15PNM             |
| M24308/2-335         | DBMAMR25S              | M24308/5-14          | DBMMF25SNM             | M24308/8-3           | DBMAM25PNM             |
| M24308/2-336         | DCMAMR37S              | M24308/5-15          | DCMMF37SNM             | M24308/8-4           | DCMAM37PNM             |
| M24308/2-341         | DAMAMR15S              | M24308/5-16          | DDMMF50SNM             | M24308/8-5           | DDMAM50PNM             |
| M24308/2-342         | DEMAMY9S               | M24308/5-23          | DDMMY9SNM              | M24308/8-6           | DEMAMT9PNM             |
| M24308/2-343         | DAMAMY15S              | M24308/5-24          | DAMMY15SNM             | M24308/8-7           | DAMAMT15PNM            |
| M24308/2-344         | DBMAMY25S              | M24308/5-25          | DBMMY25SNM             | M24308/8-8           | DBMAMT25PNM            |
| M24308/2-345         | DCMAMY37S              | M24308/5-26          | DCMMY37SNM             | M24308/8-9           | DCMAMT37PNM            |
| M24308/2-346         | DDMAMY50S              | M24308/5-27          | DDMMY50SNM             | M24308/8-10          | DDMAMT50PNM            |
| M24308/2-353         | DEMAMYT9S              | M24308/6-1           | DEMAM9SNM              | M24308/8-259         | DEMAM9PNM-FO           |
| M24308/2-354         | DAMAMYT15S             | M24308/6-2           | DAMAM15SNM             | M24308/8-260         | DAMAM15PNM-FO          |
| M24308/2-355         | DBMAMYT25S             | M24308/6-3           | DBMAM25SNM             | M24308/8-261         | DBMAM25PNM-FO          |
| M24308/2-356         | DCMAMYT37S             | M24308/6-4           | DCMAM37SNM             | M24308/8-262         | DCMAM37PNM-FO          |
| M24308/2-357         | DDMAMYT50S             | M24308/6-5           | DDMAM50SNM             | M24308/8-263         | DDMAM50PNM-FO          |
| M24308/2-482         | DEMAMY9S-FO            | M24308/6-6           | DEMAMT9SNM             | M24308/8-302         | DEMAMF9PNM             |
| M24308/2-483         | DEMAMY15S-FO           | M24308/6-7           | DAMAMT15SNM            | M24308/8-303         | DAMAMF15PNM            |
| M24308/2-484         | DEMAMY25S-FO           | M24308/6-8           | DBMAMT25SNM            | M24308/8-304         | DBMAMF25PNM            |
| M24308/2-485         | DCMAMY37S-FO           | M24308/6-9           | DCMAMT37SNM            | M24308/8-305         | DCMAMF37PNM            |
| M24308/2-486         | DDMAMY50S-FO           | M24308/6-10          | DDMAMT50SNM            | M24308/8-306         | DDMAMF50PNM            |
| M24308/3-1           | DEMM9P                 | M24308/6-259         | DEMAMF9SNM             | M24308/8-313         | DEMAMF9PNM             |
| M24308/3-2           | DAMM15P                | M24308/6-260         | DAMAMF15SNM            | M24308/8-314         | DAMAMFT15PNM           |

## 24308-Style Cross Reference

| Military Part Number | ITT Cannon Part Number | Military Part Number | ITT Cannon Part Number | Military Part Number | ITT Cannon Part Number |
|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|
| M24308/8-315         | DBMAMFT25PNM           | M24308/23-21         | DBMM25SX               | M24308/24-15         | DBMM25PH               |
| M24308/8-316         | DCMAMFT37PNM           | M24308/23-22         | DCMM37SX               | M24308/24-16         | DCMM37PH               |
| M24308/8-317         | DDMAMFT50PNM           | M24308/23-23         | DDMM50SX               | M24308/24-17         | DDMM50PH               |
| M24308/8-324         | DEMAMF9PNM-FO          | M24308/23-25         | DEMM9SD                | M24308/24-19         | DEMM9PX                |
| M24308/8-325         | DAMAMF15PNM-FO         | M24308/23-26         | DAMM15SD               | M24308/24-20         | DAMM15PX               |
| M24308/8-326         | DBMAMF25PNM-FO         | M24308/23-27         | DBMM25SD               | M24308/24-21         | DBMM25PX               |
| M24308/8-327         | DCMAMF37PNM-FO         | M24308/23-28         | DCMM37SD               | M24308/24-22         | DCMM37PX               |
| M24308/8-328         | DDMAMF50PNM-FO         | M24308/23-29         | DDMM50SD               | M24308/24-23         | DDMM50PX               |
| M24308/9-1           | DEH9P002               | M24308/23-31         | DEMM9SL                | M24308/24-25         | DEMM9PD                |
| M24308/9-2           | DAH15P002              | M24308/23-32         | DAMM15SL               | M24308/24-26         | DAMM15PD               |
| M24308/9-3           | DBH25P002              | M24308/23-33         | DBMM25SL               | M24308/24-27         | DBMM25PD               |
| M24308/9-4           | DCH37P002              | M24308/23-34         | DCMM37SL               | M24308/24-28         | DCMM37PD               |
| M24308/9-5           | DDH50P002              | M24308/23-35         | DDMM50SL               | M24308/24-29         | DDMM50PD               |
| M24308/9-6           | DEH9P001               | M24308/23-37         | DEMM9SA                | M24308/24-31         | DEMM9PL                |
| M24308/9-7           | DAH15P001              | M24308/23-38         | DAMM15SA               | M24308/24-32         | DAMM15PL               |
| M24308/9-8           | DBH25P001              | M24308/23-39         | DBMM25SA               | M24308/24-33         | DBMM25PL               |
| M24308/9-9           | DCH37P001              | M24308/23-40         | DCMM37SA               | M24308/24-34         | DCMM37PL               |
| M24308/9-10          | DDH50P001              | M24308/23-41         | DDMM50SA               | M24308/24-35         | DDMM50PL               |
| M24308/9-11          | DEH9P202               | M24308/23-43         | DEMM9SG                | M24308/24-37         | DEMM9PA                |
| M24308/9-12          | DAH15P202              | M24308/23-44         | DAMM15SG               | M24308/24-38         | DAMM15PA               |
| M24308/9-13          | DBH25P202              | M24308/23-45         | DBMM25SG               | M24308/24-39         | DBMM25PA               |
| M24308/9-14          | DCH37P202              | M24308/23-46         | DCMM37SG               | M24308/24-40         | DCMM37PA               |
| M24308/9-15          | DDH50P202              | M24308/23-47         | DDMM50SG               | M24308/24-41         | DDMM50PA               |
| M24308/9-16          | DEH9P201               | M24308/23-49         | DEMM9SS                | M24308/24-43         | DEMM9PG                |
| M24308/9-17          | DAH15P201              | M24308/23-50         | DAMM15SS               | M24308/24-44         | DAMM15PG               |
| M24308/9-18          | DBH25P201              | M24308/23-51         | DBMM25SS               | M24308/24-45         | DBMM25PG               |
| M24308/9-19          | DCH37P201              | M24308/23-52         | DCMM37SS               | M24308/24-46         | DCMM37PG               |
| M24308/9-20          | DDH50P201              | M24308/23-53         | DDMM50SS               | M24308/24-47         | DDMM50PG               |
| M24308/23-1          | DEMM9SM                | M24308/23-55         | DEMM9SW                | M24308/24-49         | DEMM9PS                |
| M24308/23-2          | DAMM15SM               | M24308/23-56         | DAMM15SW               | M24308/24-50         | DAMM15PS               |
| M24308/23-3          | DBMM25SM               | M24308/23-57         | DBMM25SW               | M24308/24-51         | DBMM25PS               |
| M24308/23-4          | DCMM37SM               | M24308/23-58         | DCMM37SW               | M24308/24-52         | DCMM37PS               |
| M24308/23-5          | DDMM50SM               | M24308/23-59         | DDMM50SW               | M24308/24-53         | DDMM50PS               |
| M24308/23-7          | DEMM9SZ                | M24308/24-1          | DEMM9PM                | M24308/24-55         | DEMM9PW                |
| M24308/23-8          | DAMM15SZ               | M24308/24-2          | DAMM15PM               | M24308/24-56         | DAMM15PW               |
| M24308/23-9          | DBMM25SZ               | M24308/24-3          | DBMM25PM               | M24308/24-57         | DBMM25PW               |
| M24308/23-10         | DCMM37SZ               | M24308/24-4          | DCMM37PM               | M24308/24-58         | DCMM37PW               |
| M24308/23-11         | DDMM50SZ               | M24308/24-5          | DDMM50PM               | M24308/24-59         | DDMM50PW               |
| M24308/23-13         | DEMM9SH                | M24308/24-7          | DEMM9PZ                | M24308/26-1          | D20418-2               |
| M24308/23-14         | DAMM15SH               | M24308/24-8          | DAMM15PZ               | M24308/26-2          | D20418-39              |
| M24308/23-15         | DBMM25SH               | M24308/24-9          | DBMM25PZ               |                      |                        |
| M24308/23-16         | DCMM37SH               | M24308/24-10         | DCMM37PZ               |                      |                        |
| M24308/23-17         | DDMM50SH               | M24308/24-11         | DDMM50PZ               |                      |                        |
| M24308/23-19         | DEMM9SX                | M24308/24-13         | DEMM9PH                |                      |                        |
| M24308/23-20         | DAMM15SX               | M24308/24-14         | DAMM15PH               |                      |                        |

## MIL-C-39029 Crimp Contacts

| Military Part Number | ITT Cannon Part Number | Contact Size | Contact Style | Product Line | MIL Specification |
|----------------------|------------------------|--------------|---------------|--------------|-------------------|
| M39029/63-368        | 031-1007-078           | 20           | Socket        | D*MA         | 24308-Style       |
| M39029/64-369        | 330-5291-097           | 20           | Pin           | D*MA         | 24308-Style       |

## HE501/D\*M Cross Reference

| HE501<br>Part Number | ITT Cannon<br>Part Number | HE501<br>Part Number | ITT Cannon<br>Part Number | HE501<br>Part Number | ITT Cannon<br>Part Number |
|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|
| HE501N09AS3          | DEM9S                     | HE501N9KS33          | DEM9SF179A                | HE501N09YP4          | DEM9POL3                  |
| HE501N15AS3          | DAM15S                    | HE501N15KS33         | DAM15SF179A               | HE501N15YP4          | DAM15POL3                 |
| HE501N25AS3          | DBM25S                    | HE501N25KS33         | DBM25SF179A               | HE501N25YP4          | DBM25POL3                 |
| HE501N37AS3          | DCM37S                    | HE501N37KS33         | DCM37SF179A               | HE501N37YP4          | DCM37POL3                 |
| HE501N50AS3          | DDM50S                    | HE501N50KS33         | DDM50SF179A               | HE501N50YP4          | DDM50POL3                 |
| HE501F09AS3          | DEMY9S                    | HE501N09AP           | DEM9P                     | HE501P09VP6E         | DEM9P1A5N                 |
| HE501F15AS3          | DAMY15S                   | HE501N15AP           | DAM15P                    | HE501P15VP6E         | DAM15P1A5N                |
| HE501F25AS3          | DBMY25S                   | HE501N25AP           | DBM25P                    | HE501P25VP6E         | DBM25P1A5N                |
| HE501F37AS3          | DCMY37S                   | HE501N37AP           | DCM37P                    | HE501P37VP6E         | DCM39P1A5N                |
| HE501F50AS3          | DDMY50S                   | HE501N50AP           | DDM50P                    | HE501P50VP6E         | DDM50P1A5N                |
| HE501N09YS43         | DEM9SOL3                  | HE501F09AP           | DEMY9P                    | HE501N9KP3           | DEM9PF179A                |
| HE501N15YS43         | DAM15SOL3                 | HE501F15AP           | DAMY15P                   | HE501N15KP3          | DAM15PF179A               |
| HE501N25YS43         | DBM25SOL3                 | HE501F25AP           | DBMY25P                   | HE501N25KP3          | DBM25PF179A               |
| HE501N37YS43         | DCM37SOL3                 | HE501F37AP           | DCMY37P                   | HE501N37KP3          | DCM37PF179A               |
| HE501N50YS43         | DDM50SOL3                 | HE501F50AP           | DDMY50P                   | HE501N50KP3          | DDM50PF179A               |
| HE501P09VS63E        | DEM9S1A5N                 |                      |                           |                      |                           |
| HE501P15VS63E        | DAM15SA15N                |                      |                           |                      |                           |
| HE501P25VS63E        | DBM25S1A5N                |                      |                           |                      |                           |
| HE501P37VS63E        | DCM37S1A5N                |                      |                           |                      |                           |
| HE501P50VS63E        | DDM50S1A5N                |                      |                           |                      |                           |



## Coaxial 90° PCB (Sizes DE-DC)

## Plug



## Reader's Resource

For contact cavity arrangements,  
see page 222.

For P.C. hole patterns, see pages 228-229.

For panel cutouts, see page 221.

For hardware views (Standard), see page 226.

For alternate bracket configuration (when  
connectors are supplied without boardlocks),  
see page 226.

For alternate 50 Ohm coaxial configuration,  
see page 225.

## 75 Ohm Part Numbers\* with Bracket and Rivnut #4-40 UNC

| Shell Size | Layout | Part Number<br>Without Screw Locks<br>Without Boardlocks | Part Number<br>Without Screw Locks<br>With Boardlocks | Part Number<br>With Screw Locks<br>Without Boardlocks | Part Number<br>With Screw Locks<br>With Boardlocks |
|------------|--------|----------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|
| DE         | 5W1    | DEMMP5C1PJ                                               | DEMMC5C1PJ                                            | DEMMD5C1PJ                                            | DEMMG5C1PJ                                         |
| DA         | 7W2    | DAMMP7C2PJ                                               | DAMMC7C2PJ                                            | DAMMD7C2PJ                                            | DAMMG7C2PJ                                         |
| DA         | 11W1   | DAMMP11C1PJ                                              | DAMMC11C1PJ                                           | DAMMD11C1PJ                                           | DAMMG11C1PJ                                        |
| DA         | 3W3    | DAMMP3C3PJ                                               | DAMMC3C3PJ                                            | DAMMD3C3PJ                                            | DAMMG3C3PJ                                         |
| DA         | 3WK3♣  | DAMMP3CK3PJTM                                            | DAMMC3CK3PJTM                                         | DAMMD3CK3PJTM                                         | DAMMG3CK3PJTM                                      |
| DB         | 5W5    | DBMMP5C5PJ                                               | DBMMC5C5PJ                                            | DBMMD5C5PJ                                            | DBMMG5C5PJ                                         |
| DB         | 9W4    | DBMMP9C4PJ                                               | DBMMC9C4PJ                                            | DBMMD9C4PJ                                            | DBMMG9C4PJ                                         |
| DB         | 13W3   | DBMMP13C3PJ                                              | DBMMC13C3PJ                                           | DBMMD13C3PJ                                           | DBMMG13C3PJ                                        |
| DB         | 17W2   | DBMMP17C2PJ                                              | DBMMC17C2PJ                                           | DBMMD17C2PJ                                           | DBMMG17C2PJ                                        |
| DB         | 21W1   | DBMMP21C1PJ                                              | DBMMC21C1PJ                                           | DBMMD21C1PJ                                           | DBMMG21C1PJ                                        |
| DC         | 8W8    | DCMMP8C8PJ                                               | DCMMC8C8PJ                                            | DCMMD8C8PJ                                            | DCMMG8C8PJ                                         |
| DC         | 13W6   | DCMMP13C6PJ                                              | DCMMC13C6PJ                                           | DCMMD13C6PJ                                           | DCMMG13C6PJ                                        |
| DC         | 17W5   | DCMMP17C5PJ                                              | DCMMC17C5PJ                                           | DCMMD17C5PJ                                           | DCMMG17C5PJ                                        |
| DC         | 21WA4  | DCMMP21CA4PJ                                             | DCMMC21CA4PJ                                          | DCMMD21CA4PJ                                          | DCMMG21CA4PJ                                       |
| DC         | 25W3   | DCMMP25C3PJ                                              | DCMMC25C3PJ                                           | DCMMD25C3PJ                                           | DCMMG25C3PJ                                        |
| DC         | 27W2   | DCMMP27C2PJ                                              | DCMMC27C2PJ                                           | DCMMD27C2PJ                                           | DCMMG27C2PJ                                        |

Notes: \*For 50 Ohm Coaxial substitute X for C. Example: DEMMP5X1PJ

For DD shell size, see page 148.

♣ Keyed



Note: ♥ Dimension varies with alternate bracket configuration, see Reader's Resource page 226.

## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,368 (.0145) | W<br>±0,41 (.016) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,92 (.666)      | 24,99 (.984)      | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 25,25 (.994)      | 33,32 (1.312)     | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,96 (1.534)     | 47,04 (1.852)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       |
| DC         | 69,32 (2.729)     | 55,42 (2.182)     | 63,50 (2.500)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       |

## Coaxial 90° PCB (Sizes DE-DC)

## Receptacle



## Reader's Resource

For contact cavity arrangements, see page 223.

For P.C. hole patterns, see pages 231-232.

For panel cutouts, see page 221.

For hardware views (Standard), see page 226.

For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.

For alternate 50 Ohm coaxial configuration, see page 225.

## 75 Ohm Part Numbers\* with Bracket and Rivnut #4-40 UNC

| Shell Size | Layout | Part Number Without Screw Locks Without Boardlocks | Part Number Without Screw Locks With Boardlocks | Part Number With Screw Locks Without Boardlocks | Part Number With Screw Locks With Boardlocks |
|------------|--------|----------------------------------------------------|-------------------------------------------------|-------------------------------------------------|----------------------------------------------|
| DE         | 5W1    | DEMMP5C1SJ                                         | DEMMC5C1SJ                                      | DEMMD5C1SJ                                      | DEMMG5C1SJ                                   |
| DA         | 7W2    | DAMMP7C2SJ                                         | DAMMC7C2SJ                                      | DAMMD7C2SJ                                      | DAMMG7C2SJ                                   |
| DA         | 11W1   | DAMMP11C1SJ                                        | DAMMC11C1SJ                                     | DAMMD11C1SJ                                     | DAMMG11C1SJ                                  |
| DA         | 3W3    | DAMMP3C3SJ                                         | DAMMC3C3SJ                                      | DAMMD3C3SJ                                      | DAMMG3C3SJ                                   |
| DA         | 3WK3♣  | DAMMP3CK3SJTM                                      | DAMMC3CK3SJTM                                   | DAMMD3CK3SJTM                                   | DAMMG3CK3SJTM                                |
| DB         | 5W5    | DBMMP5C5SJ                                         | DBMMC5C5SJ                                      | DBMMD5C5SJ                                      | DBMMG5C5SJ                                   |
| DB         | 9W4    | DBMMP9C4SJ                                         | DBMMC9C4SJ                                      | DBMMD9C4SJ                                      | DBMMG9C4SJ                                   |
| DB         | 13W3   | DBMMP13C3SJ                                        | DBMMC13C3SJ                                     | DBMMD13C3SJ                                     | DBMMG13C3SJ                                  |
| DB         | 17W2   | DBMMP17C2SJ                                        | DBMMC17C2SJ                                     | DBMMD17C2SJ                                     | DBMMG17C2SJ                                  |
| DB         | 21W1   | DBMMP21C1SJ                                        | DBMMC21C1SJ                                     | DBMMD21C1SJ                                     | DBMMG21C1SJ                                  |
| DC         | 8W8    | DCMMP8C8SJ                                         | DCMMC8C8SJ                                      | DCMMD8C8SJ                                      | DCMMG8C8SJ                                   |
| DC         | 13W6   | DCMMP13C6SJ                                        | DCMMC13C6SJ                                     | DCMMD13C6SJ                                     | DCMMG13C6SJ                                  |
| DC         | 17W5   | DCMMP17C5SJ                                        | DCMMC17C5SJ                                     | DCMMD17C5SJ                                     | DCMMG17C5SJ                                  |
| DC         | 21WA4  | DCMMP21CA4SJ                                       | DCMMC21CA4SJ                                    | DCMMD21CA4SJ                                    | DCMMG21CA4SJ                                 |
| DC         | 25W3   | DCMMP25C3SJ                                        | DCMMC25C3SJ                                     | DCMMD25C3SJ                                     | DCMMG25C3SJ                                  |
| DC         | 27W2   | DCMMP27C2SJ                                        | DCMMC27C2SJ                                     | DCMMD27C2SJ                                     | DCMMG27C2SJ                                  |

Notes: \*For 50 Ohm Coaxial substitute X for C. Example: DEMMP5X1SJ

For DD shell size, see page 149.

♣ Keyed



Note: ♥ Dimension varies with alternate bracket configuration, see Reader's Resource page 225.

## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,33 (.643)      | 24,99 (.984)      | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,38 (1.511)     | 47,04 (1.852)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DC         | 69,32 (2.729)     | 54,84 (2.159)     | 63,50 (2.500)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |

## Coaxial 90° PCB (Size DD)

## Plug



## 75 Ohm Part Numbers\* with Metal Bracket and Rivnut #4-40 UNC

| Shell Size | Layout | Part Number<br>Without Screw Locks<br>Without Boardlocks | Part Number<br>Without Screw Locks<br>With Boardlocks | Part Number<br>With Screw Locks<br>Without Boardlocks | Part Number<br>With Screw Locks<br>With Boardlocks |
|------------|--------|----------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|
| DD         | 24W7   | DDMMP24C7PJ                                              | DDMMC24C7PJ                                           | DDMMD24C7PJ                                           | DDMMG24C7PJ                                        |
| DD         | 36W4   | DDMMP36C4PJ                                              | DDMMC36C4PJ                                           | DDMMD36C4PJ                                           | DDMMG36C4PJ                                        |
| DD         | 43W2   | DDMMP43C2PJ                                              | DDMMC43C2PJ                                           | DDMMD43C2PJ                                           | DDMMG43C2PJ                                        |
| DD         | 47W1   | DDMMP47C1PJ                                              | DDMMC47C1PJ                                           | DDMMD47C1PJ                                           | DDMMG47C1PJ                                        |

Note: \*For 50 Ohm Coaxial substitute X for C. Example: DDMMP24X7PJ

## Reader's Resource

For contact cavity arrangements,  
see page 222.  
For P.C. hole patterns, see page 230.  
For panel cutouts, see page 221.  
For hardware views (Standard), see page 226.  
For alternate bracket configuration (when  
connectors are supplied without boardlocks),  
see page 226.  
For alternate 50 Ohm coaxial configuration,  
see page 225.



Screw lock, boardlock, and coaxial contact removed for clarity



Screw lock, boardlock, and signal contacts removed for clarity



Engaging Face



Note: ♥ Dimension varies with alternate bracket configuration, see Reader's Resource page 226.

## Dimensions

| Shell Size | A             | B             | C             | D            | E            | F            | W            | L            |
|------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|
| DD         | ±0.38 (.015)  | ±0.13 (.005)  | ±0.13 (.005)  | ±0.13 (.005) | ±0.38 (.015) | ±0.25 (.010) | ±0.41 (.016) | ±0.25 (.010) |
| DD         | 66.93 (2.635) | 52.81 (2.079) | 61.11 (2.406) | 11.07 (.436) | 15.37 (.605) | 10.82 (.426) | 6.84 (.269)  | 0.99 (.039)  |

## Coaxial 90° PCB (Size DD)

## Receptacle



## 75 Ohm Part Numbers\* with Metal Bracket and Rivnut #4-40 UNC

| Shell Size | Layout | Part Number Without Screw Locks Without Boardlocks | Part Number Without Screw Locks With Boardlocks | Part Number With Screw Locks Without Boardlocks | Part Number With Screw Locks With Boardlocks |
|------------|--------|----------------------------------------------------|-------------------------------------------------|-------------------------------------------------|----------------------------------------------|
| DD         | 24W7   | DDMMP24C7SJ                                        | DDMMC24C7SJ                                     | DDMMD24C7SJ                                     | DDMMG24C7SJ                                  |
| DD         | 36W4   | DDMMP36C4SJ                                        | DDMMC36C4SJ                                     | DDMMD36C4SJ                                     | DDMMG36C4SJ                                  |
| DD         | 43W2   | DDMMP43C2SJ                                        | DDMMC43C2SJ                                     | DDMMD43C2SJ                                     | DDMMG43C2SJ                                  |
| DD         | 47W1   | DDMMP47C1SJ                                        | DDMMC47C1SJ                                     | DDMMD47C1SJ                                     | DDMMG47C1SJ                                  |

Note: \*For 50 Ohm Coaxial substitute X for C. Example: DDMMG36X4SJ

## Reader's Resource

For contact cavity arrangements, see page 223.

For P.C. hole patterns, see page 233.

For panel cutouts, see page 221.

For hardware views (Standard), see page 226.

For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.

For alternate 50 Ohm coaxial configuration, see page 225.



Screw lock, boardlock, and coaxial contacts removed for clarity



Screw lock, boardlock, and signal contacts removed for clarity



Note: ♥ Dimension varies with alternate bracket configuration, see Reader's Resource page 226.

## Dimensions

| Shell Size | A             | B             | C             | D            | E            | F            | W            | L            |
|------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|
| DD         | ±0.38 (.015)  | ±0.13 (.005)  | ±0.13 (.005)  | ±0.13 (.005) | ±0.38 (.015) | ±0.25 (.010) | ±0.38 (.015) | ±0.25 (.010) |
| DD         | 66.93 (2.635) | 52.42 (2.064) | 61.11 (2.406) | 10.74 (.423) | 15.37 (.605) | 10.90 (.429) | 6.94 (.273)  | 0.76 (.030)  |

## Coaxial Straight PCB (Sizes DE-DC)

## Plug



## Reader's Resource

For contact cavity arrangements, see page 222.

For P.C. hole patterns, see pages 238-239.

For panel cutouts, see page 221.

For hardware views (Standard), see page 226.

For alternate 50 Ohm coaxial configuration, see page 225.

## 75 Ohm Part Numbers\* with Standoff #4-40 UNC

| Shell Size | Layout | Part Number Without Screw Locks Without Boardlocks | Part Number Without Screw Locks With Boardlocks | Part Number With Screw Locks With Boardlocks |
|------------|--------|----------------------------------------------------|-------------------------------------------------|----------------------------------------------|
| DE         | 5W1    | DEMMV5C1PN                                         | DEMMZ5C1PN                                      | DEMMN5C1PN                                   |
| DA         | 7W2    | DAMMV7C2PN                                         | DAMMZ7C2PN                                      | DAMMN7C2PN                                   |
| DA         | 11W1   | DAMMV11C1PN                                        | DAMMZ11C1PN                                     | DAMMN11C1PN                                  |
| DA         | 3W3    | DAMMV3C3PN                                         | DAMMZ3C3PN                                      | DAMMN3C3PN                                   |
| DA         | 3WK3♣  | DAMMV3CK3PNTM                                      | DAMMZ3CK3PNTM                                   | DAMMN3CK3PNTM                                |
| DB         | 5W5    | DBMMV5C5PN                                         | DBMMZ5C5PN                                      | DBMMN5C5PN                                   |
| DB         | 9W4    | DBMMV9C4PN                                         | DBMMZ9C4PN                                      | DBMMN9C4PN                                   |
| DB         | 13W3   | DBMMV13C3PN                                        | DBMMZ13C3PN                                     | DBMMN13C3PN                                  |
| DB         | 17W2   | DBMMV17C2PN                                        | DBMMZ17C2PN                                     | DBMMN17C2PN                                  |
| DB         | 21W1   | DBMMV21C1PN                                        | DBMMZ21C1PN                                     | DBMMN21C1PN                                  |
| DC         | 8W8    | DCMMV8C8PN                                         | DCMMZ8C8PN                                      | DCMMN8C8PN                                   |
| DC         | 13W6   | DCMMV13C6PN                                        | DCMMZ13C6PN                                     | DCMMN13C6PN                                  |
| DC         | 17W5   | DCMMV17C5PN                                        | DCMMZ17C5PN                                     | DCMMN17C5PN                                  |
| DC         | 21WA4  | DCMMV21CA4PN                                       | DCMMZ21CA4PN                                    | DCMMN21CA4PN                                 |
| DC         | 25W3   | DCMMV25C3PN                                        | DCMMZ25C3PN                                     | DCMMN25C3PN                                  |
| DC         | 27W2   | DCMMV27C2PN                                        | DCMMZ27C2PN                                     | DCMMN27C2PN                                  |

Notes: \*For 50 Ohm Coaxial substitute X for C. Example: DEMMV5X1PN

For DD shell size, see page 152.

♣ Keyed



Screw lock, boardlock, and signal contacts removed for clarity



Screw lock, boardlock, and coaxial contact removed for clarity

## Dimensions

| Shell Size | A             | B             | C             | D            | E            | F            | W              | W            | L            |
|------------|---------------|---------------|---------------|--------------|--------------|--------------|----------------|--------------|--------------|
|            | ±0.38 (.015)  | ±0.13 (.005)  | ±0.13 (.005)  | ±0.13 (.005) | ±0.38 (.015) | ±0.25 (.010) | ±0.368 (.0145) | ±0.41 (.016) | ±0.25 (.010) |
| DE         | 30.81 (1.213) | 16.92 (.666)  | 24.99 (.984)  | 8.36 (.329)  | 12.55 (.494) | 10.72 (.422) | 6.693 (.2635)  | —            | 0.76 (.030)  |
| DA         | 39.14 (1.541) | 25.25 (.994)  | 33.32 (1.312) | 8.36 (.329)  | 12.55 (.494) | 10.72 (.422) | 6.693 (.2635)  | —            | 0.76 (.030)  |
| DB         | 53.04 (2.088) | 38.96 (1.534) | 47.04 (1.852) | 8.36 (.329)  | 12.55 (.494) | 10.82 (.426) | —              | 6.84 (.269)  | 0.99 (.039)  |
| DC         | 69.32 (2.729) | 55.42 (2.182) | 63.50 (2.500) | 8.36 (.329)  | 12.55 (.494) | 10.82 (.426) | —              | 6.84 (.269)  | 0.99 (.039)  |

## Coaxial Straight PCB (Sizes DE-DC)

## Receptacle



## Reader's Resource

For contact cavity arrangements, see page 223.

For P.C. hole patterns, see pages 241-242.

For panel cutouts, see page 221.

For hardware views (Standard), see page 226.

For alternate 50 Ohm coaxial configuration, see page 225.

## 75 Ohm Part Numbers\* with Standoff #4-40 UNC

| Shell Size | Layout | Part Number Without Screw Locks Without Boardlocks | Part Number Without Screw Locks With Boardlocks | Part Number With Screw Locks With Boardlocks |
|------------|--------|----------------------------------------------------|-------------------------------------------------|----------------------------------------------|
| DE         | 5W1    | DEMMV5C1SN                                         | DEMMZ5C1SN                                      | DEMMN5C1SN                                   |
| DA         | 7W2    | DAMMV7C2SN                                         | DAMMZ7C2SN                                      | DAMMN7C2SN                                   |
| DA         | 11W1   | DAMMV11C1SN                                        | DAMMZ11C1SN                                     | DAMMN11C1SN                                  |
| DA         | 3W3    | DAMMV3C3SN                                         | DAMMZ3C3SN                                      | DAMMN3C3SN                                   |
| DA         | 3WK3♣  | DAMMV3CK3SNTM                                      | DAMMZ3CK3SNTM                                   | DAMMN3CK3SNTM                                |
| DB         | 5W5    | DBMMV5C5SN                                         | DBMMZ5C5SN                                      | DBMMN5C5SN                                   |
| DB         | 9W4    | DBMMV9C4SN                                         | DBMMZ9C4SN                                      | DBMMN9C4SN                                   |
| DB         | 13W3   | DBMMV13C3SN                                        | DBMMZ13C3SN                                     | DBMMN13C3SN                                  |
| DB         | 17W2   | DBMMV17C2SN                                        | DBMMZ17C2SN                                     | DBMMN17C2SN                                  |
| DB         | 21W1   | DBMMV21C1SN                                        | DBMMZ21C1SN                                     | DBMMN21C1SN                                  |
| DC         | 8W8    | DCMMV8C8SN                                         | DCMMZ8C8SN                                      | DCMMN8C8SN                                   |
| DC         | 13W6   | DCMMV13C6SN                                        | DCMMZ13C6SN                                     | DCMMN13C6SN                                  |
| DC         | 17W5   | DCMMV17C5SN                                        | DCMMZ17C5SN                                     | DCMMN17C5SN                                  |
| DC         | 21WA4  | DCMMV21CA4SN                                       | DCMMZ21CA4SN                                    | DCMMN21CA4SN                                 |
| DC         | 25W3   | DCMMV25C3SN                                        | DCMMZ25C3SN                                     | DCMMN25C3SN                                  |
| DC         | 27W2   | DCMMV27C2SN                                        | DCMMZ27C2SN                                     | DCMMN27C2SN                                  |

Notes: \*For 50 Ohm Coaxial substitute X for C. Example: DEMMV5X1SN

For DD shell size, see page 153.

♣ Keyed



Screw lock, boardlock, and signal contacts removed for clarity



Hardware and coaxial contact removed for clarity

## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>0,25 (.010) | W<br>±0,38 (.015) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,33 (.643)      | 24,99 (.984)      | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)     | 6,94 (.273)       | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)     | 6,94 (.273)       | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,38 (1.511)     | 47,04 (1.852)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)     | 6,94 (.273)       | 0,76 (.030)       |
| DC         | 69,32 (2.729)     | 54,84 (2.159)     | 63,50 (2.500)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)     | 6,94 (.273)       | 0,76 (.030)       |

## Coaxial Straight PCB (Size DD)

Plug



75 Ohm Part Numbers\* with Standoff #4-40 UNC

| Shell Size | Layout | Part Number Without Screw Locks Without Boardlocks | Part Number Without Screw Locks With Boardlocks | Part Number With Screw Locks With Boardlocks |
|------------|--------|----------------------------------------------------|-------------------------------------------------|----------------------------------------------|
| DD         | 24W7   | DDMMV24C7PN                                        | DDMMZ24C7PN                                     | DDMMN24C7PN                                  |
| DD         | 36W4   | DDMMV36C4PN                                        | DDMMZ36C4PN                                     | DDMMN36C4PN                                  |
| DD         | 43W2   | DDMMV43C2PN                                        | DDMMZ43C2PN                                     | DDMMN43C2PN                                  |
| DD         | 47W1   | DDMMV47C1PN                                        | DDMMZ47C1PN                                     | DDMMN47C1PN                                  |

Note: \*For 50 Ohm Coaxial substitute X for C. Example: DDMMV24XPN

### Reader's Resource

- For contact cavity arrangements, see page 222.
- For P.C. hole patterns, see page 256.
- For panel cutouts, see page 221.
- For hardware views (Standard), see page 226.
- For alternate 50 Ohm coaxial configuration, see page 225.



Screw lock, boardlock, and signal contacts removed for clarity



Screw lock, boardlock, and coaxial contact removed for clarity

### Dimensions

| Shell Size | A<br>±0.38 (.015) | B<br>±0.13 (.005) | C<br>±0.13 (.005) | D<br>±0.13 (.005) | E<br>±0.38 (.015) | F<br>±0.25 (.010) | W<br>±0.41 (.016) | L<br>±0.25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DD         | 66.93 (2.635)     | 52.81 (2.079)     | 61.11 (2.406)     | 11.07 (.436)      | 15.37 (.605)      | 10.82 (.426)      | 6.84 (.269)       | 0.99 (.039)       |

## Coaxial Straight PCB (Size DD)

## Receptacle



## 75 Ohm Part Numbers\* with Standoff #4-40 UNC

| Shell Size | Layout | Part Number<br>Without Screw Locks<br>Without Boardlocks | Part Number<br>Without Screw Locks<br>With Boardlocks | Part Number<br>With Screw Locks<br>With Boardlocks |
|------------|--------|----------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|
| DD         | 24W7   | DDMMV24C7SN                                              | DDMMZ24C7SN                                           | DDMMN24C7SN                                        |
| DD         | 36W4   | DDMMV36C4SN                                              | DDMMZ36C4SN                                           | DDMMN36C4SN                                        |
| DD         | 43W2   | DDMMV43C2SN                                              | DDMMZ43C2SN                                           | DDMMN43C2SN                                        |
| DD         | 47W1   | DDMMV47C1SN                                              | DDMMZ47C1SN                                           | DDMMN47C1SN                                        |

Note: \*For 50 Ohm Coaxial substitute X for C. Example: DDMMV24X7SN

## Reader's Resource

For contact cavity arrangements,  
see page 223.

For P.C. hole patterns, see page 259.

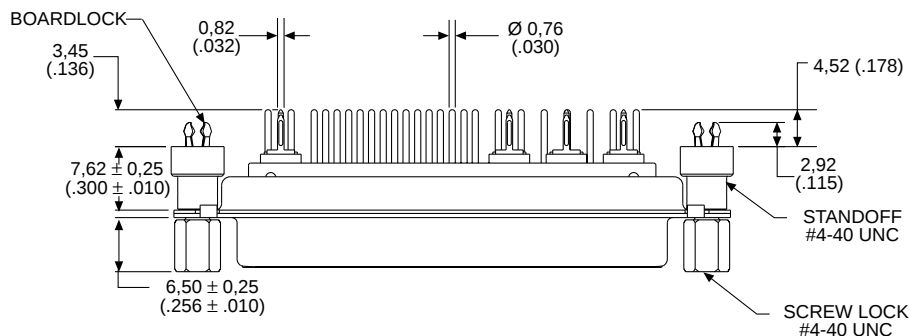
For panel cutouts, see page 221.

For hardware views (Standard), see page 226.

For alternate 50 Ohm coaxial configuration,  
see page 225.



Screw lock, boardlock, and signal contacts  
removed for clarity



Screw lock, boardlock, and coaxial contact  
removed for clarity

## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DD         | 66,93 (2.635)     | 52,42 (2.064)     | 61,11 (2.406)     | 10,74 (.423)      | 15,37 (.605)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |

## 40 A High Power 90° PCB (Sizes DE-DC)

## Plug



## Reader's Resource

For contact cavity arrangements,  
see page 222.

For P.C. hole patterns, see pages 244-245.

For panel cutouts, see page 221.

For hardware views (Standard), see page 226.

For alternate bracket configuration (when  
connectors are supplied without boardlocks),  
see page 226.

## Part Numbers with Metal Bracket and Rivnut #4-40 UNC

| Shell Size | Layout | Part Number<br>Without Screw Locks<br>Without Boardlocks | Part Number<br>Without Screw Locks<br>With Boardlocks | Part Number<br>With Screw Locks<br>Without Boardlocks | Part Number<br>With Screw Locks<br>With Boardlocks |
|------------|--------|----------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|
| DE         | 5W1    | DEMMP5H1PJ                                               | DEMMC5H1PJ                                            | DEMMD5H1PJ                                            | DEMMG5H1PJ                                         |
| DA         | 7W2    | DAMMP7H2PJ                                               | DAMMC7H2PJ                                            | DAMMD7H2PJ                                            | DAMMG7H2PJ                                         |
| DA         | 11W1   | DAMMP11H1PJ                                              | DAMMC11H1PJ                                           | DAMMD11H1PJ                                           | DAMMG11H1PJ                                        |
| DA         | 3W3    | DAMMP3H3PJ                                               | DAMMC3H3PJ                                            | DAMMD3H3PJ                                            | DAMMG3H3PJ                                         |
| DA         | 3WK3♣  | DAMMP3HK3PJTM                                            | DAMMC3HK3PJTM                                         | DAMMD3HK3PJTM                                         | DAMMG3HK3PJTM                                      |
| DB         | 5W5    | DBMMP5H5PJ                                               | DBMMC5H5PJ                                            | DBMMD5H5PJ                                            | DBMMG5H5PJ                                         |
| DB         | 9W4    | DBMMP9H4PJ                                               | DBMMC9H4PJ                                            | DBMMD9H4PJ                                            | DBMMG9H4PJ                                         |
| DB         | 13W3   | DBMMP13H3PJ                                              | DBMMC13H3PJ                                           | DBMMD13H3PJ                                           | DBMMG13H3PJ                                        |
| DB         | 17W2   | DBMMP17H2PJ                                              | DBMMC17H2PJ                                           | DBMMD17H2PJ                                           | DBMMG17H2PJ                                        |
| DB         | 21W1   | DBMMP21H1PJ                                              | DBMMC21H1PJ                                           | DBMMD21H1PJ                                           | DBMMG21H1PJ                                        |
| DC         | 8W8    | DCMMP8H8PJ                                               | DCMMC8H8PJ                                            | DCMMD8H8PJ                                            | DCMMG8H8PJ                                         |
| DC         | 13W6   | DCMMP13H6PJ                                              | DCMMC13H6PJ                                           | DCMMD13H6PJ                                           | DCMMG13H6PJ                                        |
| DC         | 17W5   | DCMMP17H5PJ                                              | DCMMC17H5PJ                                           | DCMMD17H5PJ                                           | DCMMG17H5PJ                                        |
| DC         | 21WA4  | DCMMP21HA4PJ                                             | DCMMC21HA4PJ                                          | DCMMD21HA4PJ                                          | DCMMG21HA4PJ                                       |
| DC         | 25W3   | DCMMP25H3PJ                                              | DCMMC25H3PJ                                           | DCMMD25H3PJ                                           | DCMMG25H3PJ                                        |
| DC         | 27W2   | DCMMP27H2PJ                                              | DCMMC27H2PJ                                           | DCMMD27H2PJ                                           | DCMMG27H2PJ                                        |

Notes: For DD shell size, see page 156.

♣ Keyed



Note: ♥ Dimension varies with alternate bracket configuration, see Reader's Resource page 226.

## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,368 (.0145) | W<br>±0,41 (.016) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,92 (.666)      | 24,99 (.984)      | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 25,25 (.994)      | 33,32 (1.312)     | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,96 (1.534)     | 47,04 (1.852)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       |
| DC         | 69,32 (2.729)     | 55,42 (2.182)     | 63,50 (2.500)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       |

## 40 A High Power 90° PCB (Sizes DE-DC)

## Receptacle



## Reader's Resource

For contact cavity arrangements, see page 223.

For P.C. hole patterns, see pages 247-248.

For panel cutouts, see page 221.

For hardware views (Standard), see page 226.

For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.

## Part Numbers with Metal Bracket and Rivnut #4-40 UNC

| Shell Size | Layout | Part Number Without Screw Locks Without Boardlocks | Part Number Without Screw Locks With Boardlocks | Part Number With Screw Locks Without Boardlocks | Part Number With Screw Locks With Boardlocks |
|------------|--------|----------------------------------------------------|-------------------------------------------------|-------------------------------------------------|----------------------------------------------|
| DE         | 5W1    | DEMMP5H1SJ                                         | DEMMC5H1SJ                                      | DEMMD5H1SJ                                      | DEMMG5H1SJ                                   |
| DA         | 7W2    | DAMMP7H2SJ                                         | DAMMC7H2SJ                                      | DAMMD7H2SJ                                      | DAMMG7H2SJ                                   |
| DA         | 11W1   | DAMMP11H1SJ                                        | DAMMC11H1SJ                                     | DAMMD11H1SJ                                     | DAMMG11H1SJ                                  |
| DA         | 3W3    | DAMMP3H3SJ                                         | DAMMC3H3SJ                                      | DAMMD3H3SJ                                      | DAMMG3H3SJ                                   |
| DA         | 3WK3♣  | DAMMP3HK3SJTM                                      | DAMMC3HK3SJTM                                   | DAMMD3HK3SJTM                                   | DAMMG3HK3SJTM                                |
| DB         | 5W5    | DBMMP5H5SJ                                         | DBMMC5H5SJ                                      | DBMMD5H5SJ                                      | DBMMG5H5SJ                                   |
| DB         | 9W4    | DBMMP9H4SJ                                         | DBMMC9H4SJ                                      | DBMMD9H4SJ                                      | DBMMG9H4SJ                                   |
| DB         | 13W3   | DBMMP13H3SJ                                        | DBMMC13H3SJ                                     | DBMMD13H3SJ                                     | DBMMG13H3SJ                                  |
| DB         | 17W2   | DBMMP17H2SJ                                        | DBMMC17H2SJ                                     | DBMMD17H2SJ                                     | DBMMG17H2SJ                                  |
| DB         | 21W1   | DBMMP21H1SJ                                        | DBMMC21H1SJ                                     | DBMMD21H1SJ                                     | DBMMG21H1SJ                                  |
| DC         | 8W8    | DCMMP8H8SJ                                         | DCMMC8H8SJ                                      | DCMMD8H8SJ                                      | DCMMG8H8SJ                                   |
| DC         | 13W6   | DCMMP13H6SJ                                        | DCMMC13H6SJ                                     | DCMMD13H6SJ                                     | DCMMG13H6SJ                                  |
| DC         | 17W5   | DCMMP17H5SJ                                        | DCMMC17H5SJ                                     | DCMMD17H5SJ                                     | DCMMG17H5SJ                                  |
| DC         | 21WA4  | DCMMP21HA4SJ                                       | DCMMC21HA4SJ                                    | DCMMD21HA4SJ                                    | DCMMG21HA4SJ                                 |
| DC         | 25W3   | DCMMP25H3SJ                                        | DCMMC25H3SJ                                     | DCMMD25H3SJ                                     | DCMMG25H3SJ                                  |
| DC         | 27W2   | DCMMP27H2SJ                                        | DCMMC27H2SJ                                     | DCMMD27H2SJ                                     | DCMMG27H2SJ                                  |

Notes: For DD shell size, see page 157.

♣ Keyed.



Note: ♥ Dimension varies with alternate bracket configuration, see Reader's Resource page 226.

## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,33 (.643)      | 24,99 (.984)      | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,38 (1.511)     | 47,04 (1.852)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DC         | 69,32 (2.729)     | 54,84 (2.159)     | 63,50 (2.500)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |

## 40 A High Power 90° PCB (Size DD)

## Plug



## Part Numbers with Metal Bracket and Rivnut #4-40 UNC

| Shell Size | Layout | Part Number Without Screw Locks Without Boardlocks | Part Number Without Screw Locks With Boardlocks | Part Number With Screw Locks Without Boardlocks | Part Number With Screw Locks With Boardlocks |
|------------|--------|----------------------------------------------------|-------------------------------------------------|-------------------------------------------------|----------------------------------------------|
| DD         | 24W7   | DDMMP24H7PJ                                        | DDMMC24H7PJ                                     | DDMMD24H7PJ                                     | DDMMG24H7PJ                                  |
| DD         | 36W4   | DDMMP36H4PJ                                        | DDMMC36H4PJ                                     | DDMMD36H4PJ                                     | DDMMG36H4PJ                                  |
| DD         | 43W2   | DDMMP43H2PJ                                        | DDMMC43H2PJ                                     | DDMMD43H2PJ                                     | DDMMG43H2PJ                                  |
| DD         | 47W1   | DDMMP47H1PJ                                        | DDMMC47H1PJ                                     | DDMMD47H1PJ                                     | DDMMG47H1PJ                                  |

## Reader's Resource

For contact cavity arrangements, see page 222.

For P.C. hole patterns, see page 246.

For panel cutouts, see page 221.

For hardware views (Standard), see page 226.

For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.



Screw lock, boardlock, and signal contacts removed for clarity



Screw lock, boardlock, and high power contact removed for clarity

Note: ♥ Dimension varies with alternate bracket configuration, see Reader's Resource page 226.

## Dimensions

| Shell Size | A             | B             | C             | D            | E            | F            | W            | L            |
|------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|
|            | ±0.38 (.015)  | ±0.13 (.005)  | ±0.13 (.005)  | ±0.13 (.005) | ±0.38 (.015) | ±0.25 (.010) | ±0.41 (.016) | ±0.25 (.010) |
| DD         | 66.93 (2.635) | 52.81 (2.079) | 61.11 (2.406) | 11.07 (.436) | 15.37 (.605) | 10.82 (.426) | 6.84 (.269)  | 0.99 (.039)  |

## 40 A High Power 90° PCB (Size DD)

## Receptacle



## Part Numbers with Metal Bracket and Rivnut #4-40 UNC

| Shell Size | Layout | Part Number Without Screw Locks Without Boardlocks | Part Number Without Screw Locks With Boardlocks | Part Number With Screw Locks Without Boardlocks | Part Number With Screw Locks With Boardlocks |
|------------|--------|----------------------------------------------------|-------------------------------------------------|-------------------------------------------------|----------------------------------------------|
| DD         | 24W7   | DDMMP24H7SJ                                        | DDMMC24H7SJ                                     | DDMMD24H7SJ                                     | DDMMG24H7SJ                                  |
| DD         | 36W4   | DDMMP36H4SJ                                        | DDMMC36H4SJ                                     | DDMMD36H4SJ                                     | DDMMG36H4SJ                                  |
| DD         | 43W2   | DDMMP43H2SJ                                        | DDMMC43H2SJ                                     | DDMMD43H2SJ                                     | DDMMG43H2SJ                                  |
| DD         | 47W1   | DDMMP47H1SJ                                        | DDMMC47H1SJ                                     | DDMMD47H1SJ                                     | DDMMG47H1SJ                                  |

## Reader's Resource

For contact cavity arrangements, see page 223.

For P.C. hole patterns, see page 249.

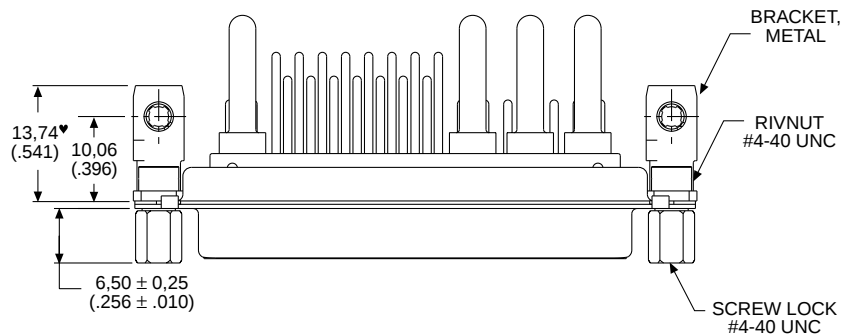
For panel cutouts, see page 221.

For hardware views (Standard), see page 226.

For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.



Screw lock, boardlock, and signal contacts removed for clarity



Screw lock, boardlock, and high power contact removed for clarity

Note: ♥ Dimension varies with alternate bracket configuration, see Reader's Resource page 226.

## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DD         | 66,93 (2.635)     | 52,42 (2.064)     | 61,11 (2.406)     | 10,74 (.423)      | 15,37 (.605)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |

## 40 A High Power Straight PCB (Sizes DE-DC)

## Plug



## Reader's Resource

For contact cavity arrangements,  
see page 222.

For P.C. hole patterns, see pages 254-255.

For panel cutouts, see page 221.

For hardware views (Standard), see page 226.

## Part Numbers with Standoff #4-40 UNC

| Shell Size | Layout | Part Number<br>Without Screw Locks<br>Without Boardlocks | Part Number<br>Without Screw Locks<br>With Boardlocks | Part Number<br>With Screw Locks<br>With Boardlocks |
|------------|--------|----------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|
| DE         | 5W1    | DEMMV5H1PN                                               | DEMMZ5H1PN                                            | DEMMN5H1PN                                         |
| DA         | 7W2    | DAMMV7H2PN                                               | DAMMZ7H2PN                                            | DAMMN7H2PN                                         |
| DA         | 11W1   | DAMMV11H1PN                                              | DAMMZ11H1PN                                           | DAMMN11H1PN                                        |
| DA         | 3W3    | DAMMV3H3PN                                               | DAMMZ3H3PN                                            | DAMMN3H3PN                                         |
| DA         | 3WK3♣  | DAMMV3HK3PNTM                                            | DAMMZ3HK3PNTM                                         | DAMMN3HK3PNTM                                      |
| DB         | 5W5    | DBMMV5H5PN                                               | DBMMZ5H5PN                                            | DBMMN5H5PN                                         |
| DB         | 9W4    | DBMMV9H4PN                                               | DBMMZ9H4PN                                            | DBMMN9H4PN                                         |
| DB         | 13W3   | DBMMV13H3PN                                              | DBMMZ13H3PN                                           | DBMMN13H3PN                                        |
| DB         | 17W2   | DBMMV17H2PN                                              | DBMMZ17H2PN                                           | DBMMN17H2PN                                        |
| DB         | 21W1   | DBMMV21H1PN                                              | DBMMZ21H1PN                                           | DBMMN21H1PN                                        |
| DC         | 8W8    | DCMMV8H8PN                                               | DCMMZ8H8PN                                            | DCMMN8H8PN                                         |
| DC         | 13W6   | DCMMV13H6PN                                              | DCMMZ13H6PN                                           | DCMMN13H6PN                                        |
| DC         | 17W5   | DCMMV17H5PN                                              | DCMMZ17H5PN                                           | DCMMN17H5PN                                        |
| DC         | 21WA4  | DCMMV21HA4PN                                             | DCMMZ21HA4PN                                          | DCMMN21HA4PN                                       |
| DC         | 25W3   | DCMMV25H3PN                                              | DCMMZ25H3PN                                           | DCMMN25H3PN                                        |
| DC         | 27W2   | DCMMV27H2PN                                              | DCMMZ27H2PN                                           | DCMMN27H2PN                                        |

Notes: For DD shell sizes, see page 160.

♣ Keyed.



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,368 (.0145) | W<br>±0,41 (.016) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,92 (.666)      | 24,99 (.984)      | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 25,25 (.994)      | 33,32 (1.312)     | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,96 (1.534)     | 47,04 (1.852)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       |
| DC         | 69,32 (2.729)     | 55,42 (2.182)     | 63,50 (2.500)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       | 0,99 (.039)       |

## 40 A High Power Straight PCB (Sizes DE-DC)

## Receptacle



## Reader's Resource

For contact cavity arrangements, see page 223.  
 For P.C. hole patterns, see pages 257-258.  
 For panel cutouts, see page 221.  
 For hardware views (Standard), see page 226.

## Part Numbers with Standoff #4-40 UNC

| Shell Size | Layout | Part Number Without Screw Locks Without Boardlocks | Part Number Without Screw Locks With Boardlocks | Part Number With Screw Locks With Boardlocks |
|------------|--------|----------------------------------------------------|-------------------------------------------------|----------------------------------------------|
| DE         | 5W1    | DEMMV5H1SN                                         | DEMMZ5H1SN                                      | DEMMN5H1SN                                   |
| DA         | 7W2    | DAMMV7H2SN                                         | DAMMZ7H2SN                                      | DAMMN7H2SN                                   |
| DA         | 11W1   | DAMMV11H1SN                                        | DAMMZ11H1SN                                     | DAMMN11H1SN                                  |
| DA         | 3W3    | DAMMV3H3SN                                         | DAMMZ3H3SN                                      | DAMMN3H3SN                                   |
| DA         | 3WK3♣  | DAMMV3HK3SNTM                                      | DAMMZ3HK3SNTM                                   | DAMMN3HK3SNTM                                |
| DB         | 5W5    | DBMMV5H5SN                                         | DBMMZ5H5SN                                      | DBMMN5H5SN                                   |
| DB         | 9W4    | DBMMV9H4SN                                         | DBMMZ9H4SN                                      | DBMMN9H4SN                                   |
| DB         | 13W3   | DBMMV13H3SN                                        | DBMMZ13H3SN                                     | DBMMN13H3SN                                  |
| DB         | 17W2   | DBMMV17H2SN                                        | DBMMZ17H2SN                                     | DBMMN17H2SN                                  |
| DB         | 21W1   | DBMMV21H1SN                                        | DBMMZ21H1SN                                     | DBMMN21H1SN                                  |
| DC         | 8W8    | DCMMV8H8SN                                         | DCMMZ8H8SN                                      | DCMMN8H8SN                                   |
| DC         | 13W6   | DCMMV13H6SN                                        | DCMMZ13H6SN                                     | DCMMN13H6SN                                  |
| DC         | 17W5   | DCMMV17H5SN                                        | DCMMZ17H5SN                                     | DCMMN17H5SN                                  |
| DC         | 21WA4  | DCMMV21HA4SN                                       | DCMMZ21HA4SN                                    | DCMMN21HA4SN                                 |
| DC         | 25W3   | DCMMV25H3SN                                        | DCMMZ25H3SN                                     | DCMMN25H3SN                                  |
| DC         | 27W2   | DCMMV27H2SN                                        | DCMMZ27H2SN                                     | DCMMN27H2SN                                  |

Notes: For DD shell sizes, see page 161.

♣ Keyed.



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,33 (.643)      | 24,99 (.984)      | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,38 (1.511)     | 47,04 (1.852)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |
| DC         | 69,32 (2.729)     | 54,84 (2.159)     | 63,50 (2.500)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |

40 A High Power Straight PCB (Size DD)

Plug



Part Numbers with Standoff #4-40 UNC

| Shell Size | Layout | Part Number                               | Part Number                            | Part Number                         |
|------------|--------|-------------------------------------------|----------------------------------------|-------------------------------------|
|            |        | Without Screw Locks<br>Without Boardlocks | Without Screw Locks<br>With Boardlocks | With Screw Locks<br>With Boardlocks |
| DD         | 24W7   | DDMMV24H7PN                               | DDMMZ24H7PN                            | DDMMN24H7PN                         |
| DD         | 36W4   | DDMMV36H4PN                               | DDMMZ36H4PN                            | DDMMN36H4PN                         |
| DD         | 43W2   | DDMMV43H2PN                               | DDMMZ43H2PN                            | DDMMN43H2PN                         |
| DD         | 47W1   | DDMMV47H1PN                               | DDMMZ47H1PN                            | DDMMN47H1PN                         |

Reader's Resource  
For contact cavity arrangements,  
see page 222.  
For P.C. hole patterns, see page 256.  
For panel cutouts, see page 221.  
For hardware views (Standard), see page 226.



Dimensions

|            | A             | B             | C             | D            | E            | F            | W            | L            |
|------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|
| Shell Size | ±0,38 (.015)  | ±0,13 (.005)  | ±0,13 (.005)  | ±0,13 (.005) | ±0,38 (.015) | ±0,25 (.010) | ±0,41 (.016) | ±0,25 (.010) |
| DD         | 66,93 (2.635) | 52,81 (2.079) | 61,11 (2.406) | 11,07 (.436) | 15,37 (.605) | 10,82 (.426) | 6,84 (.269)  | 0,99 (.039)  |

40 A High Power Straight PCB (Size DD)

Receptacle

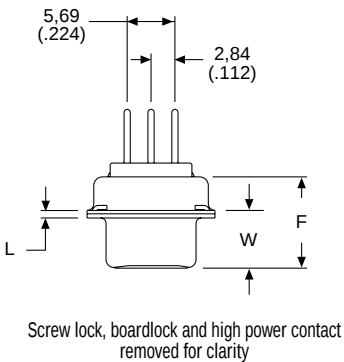
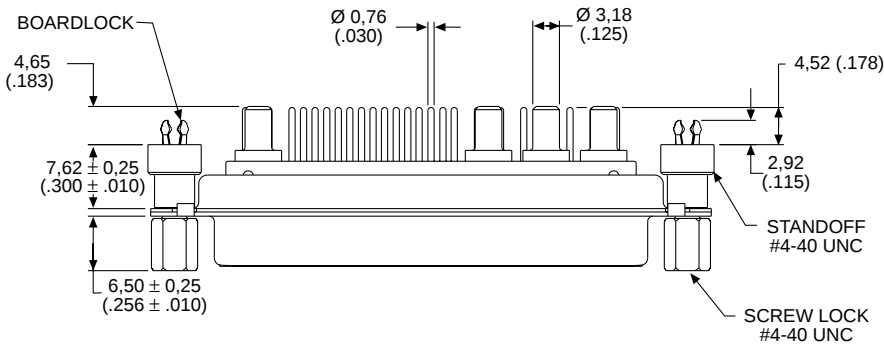


Part Numbers with Standoff #4-40 UNC

| Shell Size | Layout | Part Number Without Screw Locks Without Boardlocks | Part Number Without Screw Locks With Boardlocks | Part Number With Screw Locks With Boardlocks |
|------------|--------|----------------------------------------------------|-------------------------------------------------|----------------------------------------------|
| DD         | 24W7   | DDMMV24H7SN                                        | DDMMZ24H7SN                                     | DDMMN24H7SN                                  |
| DD         | 36W4   | DDMMV36H4SN                                        | DDMMZ36H4SN                                     | DDMMN36H4SN                                  |
| DD         | 43W2   | DDMMV43H2SN                                        | DDMMZ43H2SN                                     | DDMMN43H2SN                                  |
| DD         | 47W1   | DDMMV47H1SN                                        | DDMMZ47H1SN                                     | DDMMN47H1SN                                  |

Reader’s Resource

- For contact cavity arrangements, see page 223.
- For P.C. hole patterns, see page 259.
- For panel cutouts, see page 221.
- For hardware views (Standard), see page 226.



Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DD         | 66,93 (2.635)     | 52,42 (2.064)     | 61,11 (2.406)     | 10,74 (.423)      | 15,37 (.605)      | 10,90 (.429)      | 6,94 (.273)       | 0,76 (.030)       |

## High Voltage Straight PCB (Sizes DE-DC)

## Plug



## Reader's Resource

For contact cavity arrangements,  
see page 222.

For P.C. hole patterns, see pages 254-255.

For panel cutouts, see page 221.

For hardware views (Standard), see page 226.

## Part Numbers with Standoff #4-40 UNC

| Shell Size | Layout | Part Number<br>Without Screw Locks<br>Without Boardlocks | Part Number<br>Without Screw Locks<br>With Boardlocks | Part Number<br>With Screw Locks<br>With Boardlocks |
|------------|--------|----------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|
| DE         | 5W1    | DEMMV5V1PN                                               | DEMMZ5V1PN                                            | DEMMN5V1PN                                         |
| DA         | 7W2    | DAMMV7V2PN                                               | DAMMZ7V2PN                                            | DAMMN7V2PN                                         |
| DA         | 11W1   | DAMMV11V1PN                                              | DAMMZ11V1PN                                           | DAMMN11V1PN                                        |
| DA         | 3W3    | DAMMV3V3PN                                               | DAMMZ3V3PN                                            | DAMMN3V3PN                                         |
| DA         | 3WK3♣  | DAMMV3VK3PNTM                                            | DAMMZ3VK3PNTM                                         | DAMMN3VK3PNTM                                      |
| DB         | 5W5    | DBMMV5V5PN                                               | DBMMZ5V5PN                                            | DBMMN5V5PN                                         |
| DB         | 9W4    | DBMMV9V4PN                                               | DBMMZ9V4PN                                            | DBMMN9V4PN                                         |
| DB         | 13W3   | DBMMV13V3PN                                              | DBMMZ13V3PN                                           | DBMMN13V3PN                                        |
| DB         | 17W2   | DBMMV17V2PN                                              | DBMMZ17V2PN                                           | DBMMN17V2PN                                        |
| DB         | 21W1   | DBMMV21V1PN                                              | DBMMZ21V1PN                                           | DBMMN21V1PN                                        |
| DC         | 8W8    | DCMMV8V8PN                                               | DCMMZ8V8PN                                            | DCMMN8V8PN                                         |
| DC         | 13W6   | DCMMV13V6PN                                              | DCMMZ13V6PN                                           | DCMMN13V6PN                                        |
| DC         | 17W5   | DCMMV17V5PN                                              | DCMMZ17V5PN                                           | DCMMN17V5PN                                        |
| DC         | 21WA4  | DCMMV21VA4PN                                             | DCMMZ21VA4PN                                          | DCMMN21VA4PN                                       |
| DC         | 25W3   | DCMMV25V3PN                                              | DCMMZ25V3PN                                           | DCMMN25V3PN                                        |
| DC         | 27W2   | DCMMV27V2PN                                              | DCMMZ27V2PN                                           | DCMMN27V2PN                                        |

Notes: For DD shell size, see page 164.

♣ Keyed.



## Dimensions

| Plug<br>Shell Size | A             | B             | C             | D            | E            | F            | W            | W            | L            |
|--------------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                    | ±0,38 (.015)  | ±0,13 (.005)  | ±0,13 (.005)  | ±0,13 (.005) | ±0,38 (.015) | ±0,25 (.010) | ±0,37 (.015) | ±0,41 (.016) | ±0,25 (.010) |
| DE                 | 30,81 (1.213) | 16,92 (.666)  | 24,99 (.984)  | 8,36 (.329)  | 12,55 (.494) | 10,72 (.422) | 6,69 (.264)  | —            | 0,76 (.030)  |
| DA                 | 39,14 (1.541) | 25,25 (.994)  | 33,32 (1.312) | 8,36 (.329)  | 12,55 (.494) | 10,72 (.422) | 6,69 (.264)  | —            | 0,76 (.030)  |
| DB                 | 53,04 (2.088) | 38,96 (1.534) | 47,04 (1.852) | 8,36 (.329)  | 12,55 (.494) | 10,82 (.426) | —            | 6,84 (.269)  | 0,99 (.039)  |
| DC                 | 69,32 (2.729) | 55,42 (2.182) | 63,50 (2.500) | 8,36 (.329)  | 12,55 (.494) | 10,82 (.426) | —            | 6,84 (.269)  | 0,99 (.039)  |

## High Voltage Straight PCB (Sizes DE-DC)

## Receptacle



## Reader's Resource

For contact cavity arrangements,  
see page 223.

For P.C. hole patterns, see pages 257-258.

For panel cutouts, see page 221.

For hardware views (Standard), see page 226.

## Part Numbers with Standoff #4-40 UNC

| Shell Size | Layout | Part Number<br>Without Screw Locks<br>Without Boardlocks | Part Number<br>Without Screw Locks<br>With Boardlocks | Part Number<br>With Screw Locks<br>With Boardlocks |
|------------|--------|----------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|
| DE         | 5W1    | DEMMV5V1SN                                               | DEMMZ5V1SN                                            | DEMMN5V1SN                                         |
| DA         | 7W2    | DAMMV7V2SN                                               | DAMMZ7V2SN                                            | DAMMN7V2SN                                         |
| DA         | 11W1   | DAMMV11V1SN                                              | DAMMZ11V1SN                                           | DAMMN11V1SN                                        |
| DA         | 3W3    | DAMMV3V3SN                                               | DAMMZ3V3SN                                            | DAMMN3V3SN                                         |
| DA         | 3WK3♣  | DAMMV3VK3SNTM                                            | DAMMZ3VK3SNTM                                         | DAMMN3VK3SNTM                                      |
| DB         | 5W5    | DBMMV5V5SN                                               | DBMMZ5V5SN                                            | DBMMN5V5SN                                         |
| DB         | 9W4    | DBMMV9V4SN                                               | DBMMZ9V4SN                                            | DBMMN9V4SN                                         |
| DB         | 13W3   | DBMMV13V3SN                                              | DBMMZ13V3SN                                           | DBMMN13V3SN                                        |
| DB         | 17W2   | DBMMV17V2SN                                              | DBMMZ17V2SN                                           | DBMMN17V2SN                                        |
| DB         | 21W1   | DBMMV21V1SN                                              | DBMMZ21V1SN                                           | DBMMN21V1SN                                        |
| DC         | 8W8    | DCMMV8V8SN                                               | DCMMZ8V8SN                                            | DCMMN8V8SN                                         |
| DC         | 13W6   | DCMMV13V6SN                                              | DCMMZ13V6SN                                           | DCMMN13V6SN                                        |
| DC         | 17W5   | DCMMV17V5SN                                              | DCMMZ17V5SN                                           | DCMMN17V5SN                                        |
| DC         | 21WA4  | DCMMV21VA4SN                                             | DCMMZ21VA4SN                                          | DCMMN21VA4SN                                       |
| DC         | 25W3   | DCMMV25V3SN                                              | DCMMZ25V3SN                                           | DCMMN25V3SN                                        |
| DC         | 27W2   | DCMMV27V2SN                                              | DCMMZ27V2SN                                           | DCMMN27V2SN                                        |

Notes: For DD shell size, see page 165.

♣ Keyed.



## Dimensions

| Receptacle<br>Shell Size | A             | B             | C             | D            | E            | F            | W            | L            |
|--------------------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|
|                          | ±0,38 (.015)  | ±0,13 (.005)  | ±0,13 (.005)  | ±0,13 (.005) | ±0,38 (.015) | ±0,25 (.010) | ±0,38 (.015) | ±0,25 (.010) |
| DE                       | 30,81 (1.213) | 16,33 (.643)  | 24,99 (.984)  | 7,90 (.311)  | 12,55 (.494) | 10,90 (.429) | 6,94 (.273)  | 0,76 (.030)  |
| DA                       | 39,14 (1.541) | 24,66 (.971)  | 33,32 (1.312) | 7,90 (.311)  | 12,55 (.494) | 10,90 (.429) | 6,94 (.273)  | 0,76 (.030)  |
| DB                       | 53,04 (2.088) | 38,38 (1.511) | 47,04 (1.852) | 7,90 (.311)  | 12,55 (.494) | 10,90 (.429) | 6,94 (.273)  | 0,76 (.030)  |
| DC                       | 69,32 (2.729) | 54,84 (2.159) | 63,50 (2.500) | 7,90 (.311)  | 12,55 (.494) | 10,90 (.429) | 6,94 (.273)  | 0,76 (.030)  |

High Voltage Straight PCB (Size DD)

Plug



Part Numbers with Standoff #4-40 UNC

| Shell Size | Layout | Part Number                               |                                        |                                     |
|------------|--------|-------------------------------------------|----------------------------------------|-------------------------------------|
|            |        | Without Screw Locks<br>Without Boardlocks | Without Screw Locks<br>With Boardlocks | With Screw Locks<br>With Boardlocks |
| DD         | 24W7   | DDMMV24V7PN                               | DDMMZ24V7PN                            | DDMMN24V7PN                         |
| DD         | 36W4   | DDMMV36V4PN                               | DDMMZ36V4PN                            | DDMMN36V4PN                         |
| DD         | 43W2   | DDMMV43V2PN                               | DDMMZ43V2PN                            | DDMMN43V2PN                         |
| DD         | 47W1   | DDMMV47V1PN                               | DDMMZ47V1PN                            | DDMMN47V1PN                         |

Reader's Resource  
For contact cavity arrangements,  
see page 222.  
For P.C. hole patterns, see page 256.  
For panel cutouts, see page 221.  
For hardware views (Standard), see page 226.



Dimensions

| Plug<br>Shell Size | A             | B             | C             | D            | E            | F            | W            | L            |
|--------------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|
|                    | ±0,38 (.015)  | ±0,13 (.005)  | ±0,13 (.005)  | ±0,13 (.005) | ±0,38 (.015) | ±0,25 (.010) | ±0,41 (.016) | ±0,25 (.010) |
| DD                 | 66,93 (2.635) | 52,81 (2.079) | 61,11 (2.406) | 11,07 (.436) | 15,37 (.605) | 10,82 (.426) | 6,84 (.269)  | 0,99 (.039)  |

High Voltage Straight PCB (Size DD)

Receptacle



Part Numbers with Standoff #4-40 UNC

| Shell Size | Layout | Part Number                            |                                     | Part Number With Screw Locks With Boardlocks |
|------------|--------|----------------------------------------|-------------------------------------|----------------------------------------------|
|            |        | Without Screw Locks Without Boardlocks | Without Screw Locks With Boardlocks |                                              |
| DD         | 24W7   | DDMMV24V7SN                            | DDMMZ24V7SN                         | DDMMN24V7SN                                  |
| DD         | 36W4   | DDMMV36V4SN                            | DDMMZ36V4SN                         | DDMMN36V4SN                                  |
| DD         | 43W2   | DDMMV43V2SN                            | DDMMZ43V2SN                         | DDMMN43V2SN                                  |
| DD         | 47W1   | DDMMV47V1SN                            | DDMMZ47V1SN                         | DDMMN47V1SN                                  |

Reader's Resource

- For contact cavity arrangements, see page 223.
- For P.C. hole patterns, see page 259.
- For panel cutouts, see page 221.
- For hardware views (Standard), see page 226.



Dimensions

| Receptacle Shell Size | A             | B             | C             | D            | E            | F            | W            | L            |
|-----------------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|
|                       | ±0,38 (.015)  | ±0,13 (.005)  | ±0,13 (.005)  | ±0,13 (.005) | ±0,38 (.015) | ±0,25 (.010) | ±0,38 (.015) | ±0,25 (.010) |
| DD                    | 66,93 (2.635) | 52,42 (2.064) | 61,11 (2.406) | 10,74 (.423) | 15,37 (.605) | 10,90 (.429) | 6,94 (.273)  | 0,76 (.030)  |

## Cable Solder Cup

## Plug



## Reader's Resource

For contact cavity arrangements,  
see page 222.

For panel cutouts, see page 221.

For hardware views (Standard), see page 226.

## Part Numbers

| Shell Size | Layout | Through Hole | Dual Float Mount | Clinch Nut #4-40 UNC |
|------------|--------|--------------|------------------|----------------------|
| DE         | 5W1    | DEMM5W1P     | DEMMY5W1P        | DEMME5W1P            |
| DA         | 7W2    | DAMM7W2P     | DAMMY7W2P        | DAMME7W2P            |
| DA         | 11W1   | DAMM11W1P    | DAMMY11W1P       | DAMME11W1P           |
| DA         | 3W3    | DAMM3W3P     | DAMMY3W3P        | DAMME3W3P            |
| DA         | 3WK3♣  | DAMM3WK3P    | DAMMY3WK3P       | DAMME3WK3P           |
| DB         | 5W5    | DBMM5W5P     | DBMMY5W5P        | DBMME5W5P            |
| DB         | 9W4    | DBMM9W4P     | DBMMY9W4P        | DBMME9W4P            |
| DB         | 13W3   | DBMM13W3P    | DBMMY13W3P       | DBMME13W3P           |
| DB         | 17W2   | DBMM17W2P    | DBMMY17W2P       | DBMME17W2P           |
| DB         | 21W1   | DBMM21W1P    | DBMMY21W1P       | DBMME21W1P           |
| DC         | 8W8    | DCMM8W8P     | DCMMY8W8P        | DCMME8W8P            |
| DC         | 13W6   | DCMM13W6P    | DCMMY13W6P       | DCMME13W6P           |
| DC         | 17W5   | DCMM17W5P    | DCMMY17W5P       | DCMME17W5P           |
| DC         | 21WA4  | DCMM21WA4P   | DCMMY21WA4P      | DCMME21WA4P          |
| DC         | 25W3   | DCMM25W3P    | DCMMY25W3P       | DCMME25W3P           |
| DC         | 27W2   | DCMM27W2P    | DCMMY27W2P       | DCMME27W2P           |
| DD         | 24W7   | DDMM24W7P    | DDMMY24W7P       | DDMME24W7P           |
| DD         | 36W4   | DDMM36W4P    | DDMMY36W4P       | DDMME36W4P           |
| DD         | 43W2   | DDMM43W2P    | DDMMY43W2P       | DDMME43W2P           |
| DD         | 47W1   | DDMM47W1P    | DDMMY47W1P       | DDMME47W1P           |

Note: ♣ Keyed.



## DD Configuration



## Dimensions

| Shell Size | A             | B             | C             | D            | E            | F            | W              | W            | K              | K            | L            |
|------------|---------------|---------------|---------------|--------------|--------------|--------------|----------------|--------------|----------------|--------------|--------------|
|            | ±0.38 (.015)  | ±0.13 (.005)  | ±0.13 (.005)  | ±0.13 (.005) | ±0.38 (.015) | ±0.25 (.010) | ±0.368 (.0145) | ±0.41 (.016) | ±0.317 (.0125) | ±0.25 (.010) | ±0.25 (.010) |
| DE         | 30.81 (1.213) | 16.92 (.666)  | 24.99 (.984)  | 8.36 (.329)  | 12.55 (.494) | 10.72 (.422) | 6.693 (.2635)  | —            | 1.206 (.0475)  | —            | 0.76 (.030)  |
| DA         | 39.14 (1.541) | 25.25 (.994)  | 33.32 (1.312) | 8.36 (.329)  | 12.55 (.494) | 10.72 (.422) | 6.693 (.2635)  | —            | 1.206 (.0475)  | —            | 0.76 (.030)  |
| DB         | 53.04 (2.088) | 38.96 (1.534) | 47.04 (1.852) | 8.36 (.329)  | 12.55 (.494) | 10.82 (.426) | —              | 6.84 (.269)  | —              | 1.52 (.060)  | 0.99 (.039)  |
| DC         | 69.32 (2.729) | 55.42 (2.182) | 63.50 (2.500) | 8.36 (.329)  | 12.55 (.494) | 10.82 (.426) | —              | 6.84 (.269)  | —              | 1.52 (.060)  | 0.99 (.039)  |
| DD         | 66.93 (2.635) | 52.81 (2.079) | 61.11 (2.406) | 11.07 (.436) | 15.37 (.605) | 10.82 (.426) | —              | 6.84 (.269)  | —              | 1.52 (.060)  | 0.99 (.039)  |

## Cable Solder Cup

## Receptacle



## Part Numbers

| Shell Size | Layout | Through Hole | Dual Float Mount | Clinch Nut #4-40 UNC |
|------------|--------|--------------|------------------|----------------------|
| DE         | 5W1    | DEMM5W1S     | DEMMY5W1S        | DEMME5W1S            |
| DA         | 7W2    | DAMM7W2S     | DAMMY7W2S        | DAMME7W2S            |
| DA         | 11W1   | DAMM11W1S    | DAMMY11W1S       | DAMME11W1S           |
| DA         | 3W3    | DAMM3W3S     | DAMMY3W3S        | DAMME3W3S            |
| DA         | 3WK3♣  | DAMM3WK3S    | DAMMY3WK3S       | DAMME3WK3S           |
| DB         | 5W5    | DBMM5W5S     | DBMMY5W5S        | DBMME5W5S            |
| DB         | 9W4    | DBMM9W4S     | DBMMY9W4S        | DBMME9W4S            |
| DB         | 13W3   | DBMM13W3S    | DBMMY13W3S       | DBMME13W3S           |
| DB         | 17W2   | DBMM17W2S    | DBMMY17W2S       | DBMME17W2S           |
| DB         | 21W1   | DBMM21W1S    | DBMMY21W1S       | DBMME21W1S           |
| DC         | 8W8    | DCMM8W8S     | DCMMY8W8S        | DCMME8W8S            |
| DC         | 13W6   | DCMM13W6S    | DCMMY13W6S       | DCMME13W6S           |
| DC         | 17W5   | DCMM17W5S    | DCMMY17W5S       | DCMME17W5S           |
| DC         | 21WA4  | DCMM21WA4S   | DCMMY21WA4S      | DCMME21WA4S          |
| DC         | 25W3   | DCMM25W3S    | DCMMY25W3S       | DCMME25W3S           |
| DC         | 27W2   | DCMM27W2S    | DCMMY27W2S       | DCMME27W2S           |
| DD         | 24W7   | DCMM24W7S    | DCMMY24W7S       | DCMME24W7S           |
| DD         | 36W4   | DCMM36W4S    | DCMMY36W4S       | DCMME36W4S           |
| DD         | 43W2   | DCMM43W2S    | DCMMY43W2S       | DCMME43W2S           |
| DD         | 47W1   | DCMM47W1S    | DCMMY47W1S       | DCMME47W1S           |

Note: ♣ Keyed.

## Reader's Resource

For contact cavity arrangements, see page 223.

For panel cutouts, see page 221.

For hardware views (Standard), see page 226.



## Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) | K<br>±0,318 (.0125) | L<br>±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|
| DE         | 30,81 (1.123)     | 16,33 (.643)      | 24,99 (.984)      | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DA         | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DB         | 53,04 (2.088)     | 38,38 (1.511)     | 47,04 (1.852)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DC         | 69,32 (2.729)     | 54,84 (2.159)     | 63,50 (2.500)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |
| DD         | 66,93 (2.635)     | 52,42 (2.064)     | 61,11 (2.406)     | 10,74 (.423)      | 15,37 (.605)      | 10,90 (.429)      | 6,94 (.273)       | 1,206 (.0475)       | 0,76 (.030)       |



ITT Cannon has a long history of providing high performance D Subminiature connectors for space applications (qualified by NASA/GFSC and the European Space Agency). Space/High Reliability D\*M and D\*MA connectors meet stringent tests for outgassing and residual magnetism and are suitable for use in space, medical, and high performance military/aerospace applications. D\*M and D\*MA connectors are designed to be comparable to MIL-C-24308. The newest product group is High Density D\*MA crimp connectors.

- Applications
- Space - Low/High Orbit Satellites
  - Medical



Product Features

- |              |               |
|--------------|---------------|
| Non-Magnetic | No Outgassing |
|--------------|---------------|

Specifications

|                               |                                         |
|-------------------------------|-----------------------------------------|
| Temperature Rating            | −65° at 125°C                           |
| Signal Contact Current Rating | 5 A (20 AWG)                            |
| Signal Contact Resistance     | 55 millivolt max. at 7.5 A test current |
| Wire Accommodation (Solder)   | 20 AWG max.                             |
| Wire Accommodation (Crimp)    | 18/30 AWG                               |
| Coaxial Impedance             | 50 Ohm                                  |
| Loss VSWR                     | Less than 1,3 - 1,0 up to 500 Mhz       |
| Coaxial Insertion Loss        | 1db loss at 500 Mhz                     |

## Dielectric Withstanding Voltage

|                                                          |                | Altitude (meter/feet) |           |              |              |               |               |               |               |
|----------------------------------------------------------|----------------|-----------------------|-----------|--------------|--------------|---------------|---------------|---------------|---------------|
|                                                          |                | Sea Level             | Sea Level | 6 096/20 000 | 6 096/20 000 | 15 240/50 000 | 15 240/50 000 | 21 336/70 000 | 21 336/70 000 |
| Average Flashover                                        |                | 1500/1700             | 1500/1700 | 1000/1000    | 1000/1000    | 500/650       | 500/650       | 500/500       | 500/500       |
| Test                                                     |                | 1000/1250             | 1000/1250 | 650/750      | 650/750      | 325/475       | 325/475       | 325/375       | 325/375       |
| Type of Contact                                          |                | 90°                   | Straight  | 90°          | Straight     | 90°           | Straight      | 90°           | Straight      |
| Center Conductor<br>to Coaxial Shell                     | Average        | 1200                  | 1500      | 900          | 1000         | 600           | 700           | 400           | 500           |
|                                                          | Flashover Test | 800                   | 1000      | 600          | 550          | 400           | 475           | 275           | 325           |
| Coaxial Shell to Nearest<br>Solder Cup Contact           | Average        | —                     | 1500      | —            | 1500         | —             | 900           | —             | 650           |
|                                                          | Flashover Test | —                     | 1000      | —            | 1000         | —             | 800           | —             | 425           |
| High Power Contact and/or<br>Coaxial Shell to Plug Shell | Average        | 1500                  | 1500      | 1000         | 1000         | 500           | 500           | 500           | 500           |
|                                                          | Flashover Test | 1000                  | 1000      | 650          | 650          | 325           | 325           | 325           | 325           |
| Size 20 Signal Contact                                   | Average        | 1200                  | 1200      | 1000         | 1000         | 650           | 650           | 500           | 500           |
|                                                          | Flashover Test | 1250                  | 1250      | 750          | 750          | 475           | 475           | 375           | 375           |

All voltage figures are rms AC 60 rms cps. Measured at approximately +25°C, 50% rh. For additional performance specifications refer to 24308-Style.

## Residual Magnetism Level

| Residual Magnetism | Suffix Code |
|--------------------|-------------|
| 20 000 Gamma       | NM          |
| 200 Gamma          | NMB         |

Note: NMC is available by special request. Consult factory for details.















































## NASA/GSFC Cross Reference

| NASA/GSFC Part Number | ITT Cannon Part Number | NASA/GSFC Part Number | ITT Cannon Part Number | NASA/GSFC Part Number | ITT Cannon Part Number |
|-----------------------|------------------------|-----------------------|------------------------|-----------------------|------------------------|
| G08P1                 | 030-2042-002           | 311-P-10-12S-B-15     | DBM13W3S-NMB-76        | 311-P-10-24P-B-12     | DDM43W2P-NMB-77        |
| G08S1                 | 031-1147-002           | 311-P-10-12S-C-15     | DBM-13W3S-NMC-76       | 311-P-10-24S-C-12     | DDM-43W2S-NMB-77       |
| S-311-P-4/6GCP1       | DM53740-17             | 311-P-10-13P-B-12     | DBM17W2PNMB77          | 311-P-10-24S-C-15     | DDM-43W2S-NMC-76       |
| S-311-P-4/6GCP2       | DM53740-15             | 311-P-10-13P-B-15     | DBM-17W2P-NMB-76       | 311-P-10-25P-C-15     | DDM47W1P-NMC-76        |
| S-311-P-4/6GCP3       | DM53740-16             | 311-P-10-13P-C-12     | DBM17W2P-NMC-77        | 311-P-10-25S-C-15     | DDM-47W1S-NMC-76       |
| S-311-P-4/6GCP4       | DM53740-18             | 311-P-10-13P-C-15     | DBM-17W2P-NMC-76       | 311-P-10-3S-B-12      | DBM25PNMB77            |
| S-311-P-4/6GCRP1      | DM53741-12             | 311-P-10-13S-B-12     | DBM17W2SNMB77          | 311-P-10-3P-B-15      | DBM25PNMB76            |
| S-311-P-4/6GCRP2      | DM53741-11             | 311-P-10-13S-C-12     | DBM-17W2S-NMC-77       | 311-P-10-3P-C-12      | DBM25PNMC77            |
| S-311-P-4/6GCRP3      | DM53741-10             | 311-P-10-13S-C-15     | DBM-17W2S-NMC-76       | 311-P-10-3P-C-15      | DBM25PNMC76            |
| S-311-P-4/6GCRP4      | DM53741-13             | 311-P-10-14P-B-12     | DBM-21W1P-NMB-77       | 311-P-10-3S-B-12      | DBM25PNMB77            |
| S-311-P-4/6GCRS1      | DM53743-18             | 311-P-10-14P-B-15     | DBM-21W1P-NMB-76       | 311-P-10-3S-B-15      | DBM-25S-NMB-76         |
| S-311-P-4/6GCRS2      | DM53743-16             | 311-P-10-14S-B-12     | DBM-21W1S-NMB-77       | 311-P-10-3S-C-12      | DBM-25S-NMC-77         |
| S-311-P-4/6GCRS3      | DM53743-17             | 311-P-10-14S-B-15     | DBM-21W1S-NMB-76       | 311-P-10-3S-C-15      | DBM-25S-NMC-76         |
| S-311-P-4/6GCRS4      | DM53743-19             | 311-P-10-14S-C-15     | DBM-21W1S-NMC-76       | 311-P-10-4P-B-12      | DCM37PNMB77            |
| S-311-P-4/6GCS1       | DM53742-18             | 311-P-10-15P-B-12     | DCM-8W8P-NMB-77        | 311-P-10-4P-B-15      | DCM37PNMB76            |
| S-311-P-4/6GCS2       | DM53742-16             | 311-P-10-15P-B-15     | DCM8W8PNMB76           | 311-P-10-4P-C-12      | DCM-37P-NMC-77         |
| S-311-P-4/6GCS3       | DM53742-17             | 311-P-10-15P-C-12     | DCM-8W8P-NMC-77        | 311-P-10-4P-C-15      | DCM37PNMC76            |
| S-311-P-4/6GCS4       | DM53742-19             | 311-P-10-15P-C-15     | DCM8W8PNMC76           | 311-P-10-4S-B-12      | DCM37SNMB77            |
| S-311-P-4/6GHP6       | DM51157-8              | 311-P-10-15S-B-12     | DCM-8W8S-NMB-77        | 311-P-10-4S-B-15      | DCM-37S-NMB-76         |
| S-311-P-4/6GHRP6      | DM51157-5005           | 311-P-10-15S-B-15     | DCM8W8SNMB76           | 311-P-10-4S-C-12      | DCM-37S-NMC-77         |
| S-311-P-4/6GHRP6      | DM51155-5005           | 311-P-10-15S-C-12     | DCM-8W8S-NMC-77        | 311-P-10-4S-C-15      | DCM-37S-NMC-76         |
| S-311-P-4/6GHS6       | DM51155-7              | 311-P-10-15S-C-15     | DCM-8W8S-NMC-76        | 311-P-10-5P-B-12      | DDM50PNMB77            |
| 311P409-1P-B-12       | DEMA9PNMBK47FO         | 311-P-10-16P-B-12     | DCM-13W6P-NMB-77       | 311-P-10-5P-B-15      | DDM50PNMB76            |
| 311P409-1P-B-15       | DEMAK9PNMBK47FO        | 311-P-10-16P-B-15     | DCM-13W6P-NMB-76       | 311-P-10-5P-C-12      | DDM-50P-NMC-77         |
| 311P409-1S-B-12       | DEMA9SNMBK47FO         | 311-P-10-16P-C-12     | DCM-13W6P-NMC-77       | 311-P-10-5P-C-15      | DDM50PNMC76            |
| 311P409-1S-B-15       | DEMAK9SNMBK47FO        | 311-P-10-16P-C-15     | DCM-13W6P-NMC-76       | 311-P-10-5S-B-12      | DDM50SNMB77            |
| 311P409-2P-B-12       | DEMA15PNMBK47FO        | 311-P-10-16S-B-12     | DCM-13W6S-NMB-77       | 311-P-10-5S-B-15      | DDM50SNMB76            |
| 311P409-2P-B-15       | DEMAK15PNMBK47FO       | 311-P-10-16S-C-12     | DCM-13W6S-NMC-77       | 311-P-10-5S-C-12      | DDM-50S-NMC-77         |
| 311P409-2S-B-12       | DEMA15SNMBK47FO        | 311-P-10-16S-C-15     | DCM13W6SNMC76          | 311-P-10-5S-C-15      | DDM-50S-NMC-76         |
| 311P409-2S-B-15       | DEMAK15SNMBK47FO       | 311-P-10-17P-B-12     | DCM17W5PNMB77          | 311-P-10-6P-B-12      | DEM-5W1P-NMB-77        |
| 311P409-3P-B-12       | DEMA25PNMBK47FO        | 311-P-10-17P-B-15     | DCM-17W5P-NMB-76       | 311-P-10-6P-B-15      | DEM-5W1P-NMB-76        |
| 311P409-3P-B-15       | DEMAK25PNMBK47FO       | 311-P-10-17P-C-12     | DCM-17W5P-NMC-77       | 311-P-10-6P-C-15      | DEM-5W1P-NMC-76        |
| 311P409-3S-B-12       | DEMA25SNMBK47FO        | 311-P-10-17P-C-15     | DCM-17W5P-NMC-76       | 311-P-10-6S-B-12      | DEM-5W1S-NMB-77        |
| 311P409-3S-B-15       | DEMAK25SNMBK47FO       | 311-P-10-17S-B-12     | DCM-17W5S-NMB-77       | 311-P-10-6P-C-15      | DEM-5W1S-NMC-76        |
| 311P409-4P-B-12       | DEMA37PNMBK47FO        | 311-P-10-17S-B-15     | DCM17W5S-NMB-76        | 311-P-10-7P-B-12      | DAM3W3PNMC76           |
| 311P409-4P-B-15       | DEMAK37PNMBK47FO       | 311-P-10-17S-C-12     | DCM-17W5S-NMC-77       | 311-P-10-7P-B-15      | DAM-3W3P-NMB-76        |
| 311P409-4S-B-12       | DEMA37SNMBK47FO        | 311-P-10-17S-C-15     | DCM-17W5S-NMC-76       | 311-P-10-7P-C-12      | DAM3W3P-NMC-77         |
| 311P409-4S-B-15       | DEMAK37SNMBK47FO       | 311-P-10-18P-B-12     | DCM-21W4AP-NMB-77      | 311-P-10-7P-C-15      | DAM-3W3P-NMC-76        |
| 311P409-5P-B-12       | DEMA50PNMBK47FO        | 311-P-10-18P-B-15     | DCM21W4AP-NMB-76       | 311-P-10-7S-B-12      | DAM3W3SNMB77           |
| 311P409-5S-B-15       | DEMAK50PNMBK47FO       | 311-P-10-18P-C-15     | DCM-21W4AP-NMC-76      | 311-P-10-7S-B-15      | DAM3W3SNMB76           |
| 311P409-5S-B-12       | DEMA50SNMBK47FO        | 311-P-10-18S-B-12     | DCM-21W4S-NMB-77       | 311-P-10-7S-C-12      | DAM3W3S-NMC-76         |
| 311P409-5S-B-15       | DEMA50PNMBK47FO        | 311-P-10-18S-B-15     | DCM21W4AS-NMB-76       | 311-P-10-7S-C-15      | DAM-3W3S-NMC-76        |
| S-311-P-4/10G10P1     | 330-5291-081-02        | 311-P-10-19P-B-12     | DCM-21W4P-NMB-77       | 311-P-10-8P-B-12      | DAM-7W2P-NMB-77        |
| S-311-P-4/10G10S1     | 031-1007-052-05        | 311-P-10-19S-B-12     | DCM-21W4S-NMB-77       | 311-P-10-8P-B-15      | DAM-7W2P-NMB-76        |
| 311-P-10-B-1S-B-15    | DEMB9S-NMB-76          | 311-P-10-19S-C-15     | DCM21W4S-NMC-76        | 311-P-10-8P-C-15      | DAM-7W2P-NMC-76        |
| 311-P-10-B-4S-B-15    | DCMB37S-NMB-76         | 311-P-10-2P-B-12      | DAM15PNMB77            | 311-P-10-8S-B-12      | DAM-7W2S-NMB           |

## NASA/GSFC Cross Reference

| NASA/GSFC<br>Part Number | ITT Cannon<br>Part Number | NASA/GSFC<br>Part Number | ITT Cannon<br>Part Number | NASA/GSFC<br>Part Number | ITT Cannon<br>Part Number |
|--------------------------|---------------------------|--------------------------|---------------------------|--------------------------|---------------------------|
| 311-P-10B-4S-C-12        | DCMB-37S-NMC-77           | 311-P-10B-5S-C-12        | DDMB-50S-NMC-77           | 311-P-10B-8S-B-15        | DAMB-7W2S-NMB-76          |
| 311-P-10B-4S-C-15        | DCMB37S-NMC-76            | 311-P-10B-5S-C-15        | DDMB50S-NMC-76            | 311-P-10B-9S-B-12        | DAMB-11W1S-NMB-77         |
| 311-P-10B-5S-B-12        | DDMB-50S-NMB-77           | 311-P-10B-6S-B-15        | DEMB-5W1S-NMB-76          |                          |                           |
| 311-P-10B-5S-B-15        | DDMB50S-NMB-76            | 311-P-10B-8S-B-12        | DAMB-7W2S-NMB-77          |                          |                           |

## ESA/SCC Cross Reference

| ESA-SCC<br>Part Number  | ITT Cannon<br>Part Number | ESA-SCC<br>Part Number     | ITT Cannon<br>Part Number | ESA-SCC<br>Part Number     | ITT Cannon<br>Part Number |
|-------------------------|---------------------------|----------------------------|---------------------------|----------------------------|---------------------------|
| 340100101B DEM5W1SNMB   | DEM5W1SNMBK52             | 340100101B DBM17W2POL3NMB  | DBM17W2POL3NMBK52         | 340100101B DAM7W2P1A7NNMB  | DAM7W2P1A7NNMBK52         |
| 340100101B DAM3W3SNMB   | DAM3W3SNMBK52             | 340100101B DBM21W1POL3NMB  | DBM21W1POL3NMBK52         | 340100101B DAM11W1P1A7NNMB | DAM11W1P1A7NNMBK52        |
| 340100101B DAM7W2SNMB   | DAM7W2SNMBK52             | 340100101B DCM13W6POL3NMB  | DCM13W6POL3NMBK52         | 340100101B DBM9W4P1A7NNMB  | DBM9W4P1A7NNMBK52         |
| 340100101B DAM11W1SNMB  | DAM11W1SNMBK52            | 340100101B DCM17W5POL3NMB  | DCM17W5POL3NMBK52         | 340100101B DBM13W3P1A7NNMB | DBM13W3P1A7NNMBK52        |
| 340100101B DBM5W5SNMB   | DBM5W5SNMBK52             | 340100101B DCM21W4POL3NMB  | DCM21W4POL3NMBK52         | 340100101B DBM17W2P1A7NNMB | DBM17W2P1A7NNMBK52        |
| 340100101B DBM9W4SNMB   | DBM9W4SNMBK52             | 340100101B DCM25W3POL3NMB  | DCM25W3POL3NMBK52         | 340100101B DBM21W1P1A7NNMB | DBM21W1P1A7NNMBK52        |
| 340100101B DBM13W3SNMB  | DBM13W3SNMBK52            | 340100101B DCM27W2POL3NMB  | DCM27W2POL3NMBK52         | 340100101B DCM13W6P1A7NNMB | DCM13W6P1A7NNMBK52        |
| 340100101B DBM17W2SNMB  | DBM17W2SNMBK52            | 340100101B DDM24W7POL3NMB  | DDM24W7POL3NMBK52         | 340100101B DCM17W5P1A7NNMB | DCM17W5P1A7NNMBK52        |
| 340100101B DBM21W1SNMB  | DBM21W1SNMBK52            | 340100101B DDM36W4POL3NMB  | DDM36W4POL3NMBK52         | 340100101B DCM21W4P1A7NNMB | DCM21W4P1A7NNMBK52        |
| 340100101B DCM8W8SNMB   | DCM8W8SNMBK52             | 340100101B DDM43W2POL3NMB  | DDM43W2POL3NMBK52         | 340100101B DCM25W3P1A7NNMB | DCM25W3P1A7NNMBK52        |
| 340100101B DCM13W6SNMB  | DCM13W6SNMBK52            | 340100101B DDM47W1POL3NMB  | DDM47W1POL3NMBK52         | 340100101B DCM27W2P1A7NNMB | DCM27W2P1A7NNMBK52        |
| 340100101B DCM17W5SNMB  | DCM17W5SNMBK52            | 340100101B DEM5W1S1A0NNMB  | DEM5W1S1A0NNMBK52         | 340100101B DDM24W7P1A7NNMB | DDM24W7P1A7NNMBK52        |
| 340100101B DCM21W4SNMB  | DCM21W4SNMBK52            | 340100101B DAM7W2S1A0NNMB  | DAM7W2S1A0NNMBK52         | 340100101B DDM36W4P1A7NNMB | DDM36W4P1A7NNMBK52        |
| 340100101B DCM25W3SNMB  | DCM25W3SNMBK52            | 340100101B DAM11W1S1A0NNMB | DAM11W1S1A0NNMBK52        | 340100101B DDM43W2P1A7NNMB | DDM43W2P1A7NNMBK52        |
| 340100101B DCM27W2SNMB  | DCM27W2SNMBK52            | 340100101B DBM9W4S1A0NNMB  | DBM9W4S1A0NNMBK52         | 340100101B DDM47W1P1A7NNMB | DDM47W1P1A7NNMBK52        |
| 340100101B DDM24W7SNMB  | DDM24W7SNMBK52            | 340100101B DBM13W3S1A0NNMB | DBM13W3S1A0NNMBK52        | 340100101B DEM5W1S1A9NNMB  | DEM5W1S1A9NNMBK52         |
| 340100101B DDM36W4SNMB  | DDM36W4SNMBK52            | 340100101B DBM17W2S1A0NNMB | DBM17W2S1A0NNMBK52        | 340100101B DAM7W2S1A9NNMB  | DAM7W2S1A9NNMBK52         |
| 340100101B DDM43W2SNMB  | DDM43W2SNMBK52            | 340100101B DBM21W1S1A0NNMB | DBM21W1S1A0NNMBK52        | 340100101B DAM11W1S1A9NNMB | DAM11W1S1A9NNMBK52        |
| 340100101B DDM47W1SNMB  | DDM47W1SNMBK52            | 340100101B DCM13W6S1A0NNMB | DCM13W6S1A0NNMBK52        | 340100101B DBM9W4S1A9NNMB  | DBM9W4S1A9NNMBK52         |
| 340100101B DEM5W1PNMB   | DEM5W1PNMBK52             | 340100101B DCM17W5S1A0NNMB | DCM17W5S1A0NNMBK52        | 340100101B DBM13W3S1A9NNMB | DBM13W3S1A9NNMBK52        |
| 340100101B DAM3W3PNMB   | DAM3W3PNMBK52             | 340100101B DCM21W4S1A0NNMB | DCM21W4S1A0NNMBK52        | 340100101B DBM17W2S1A9NNMB | DBM17W2S1A9NNMBK52        |
| 340100101B DAM7W2PNMB   | DAM7W2PNMBK52             | 340100101B DCM25W3S1A0NNMB | DCM25W3S1A0NNMBK52        | 340100101B DBM21W1S1A9NNMB | DBM21W1S1A9NNMBK52        |
| 340100101B DAM11W1PNMB  | DAM11W1PNMBK52            | 340100101B DCM27W2S1A0NNMB | DCM27W2S1A0NNMBK52        | 340100101B DCM13W6S1A9NNMB | DCM13W6S1A9NNMBK52        |
| 340100101B DBM5W5PNMB   | DBM5W5PNMBK52             | 340100101B DDM24W7S1A0NNMB | DDM24W7S1A0NNMBK52        | 340100101B DCM17W5S1A9NNMB | DCM17W5S1A9NNMBK52        |
| 340100101B DBM9W4PNMB   | DBM9W4PNMBK52             | 340100101B DDM36W4S1A0NNMB | DDM36W4S1A0NNMBK52        | 340100101B DCM21W4S1A9NNMB | DCM21W4S1A9NNMBK52        |
| 340100101B DBM13W3PNMB  | DBM13W3PNMBK52            | 340100101B DDM43W2S1A0NNMB | DDM43W2S1A0NNMBK52        | 340100101B DCM25W3S1A9NNMB | DCM25W3S1A9NNMBK52        |
| 340100101B DBM17W2PNMB  | DBM17W2PNMBK52            | 340100101B DDM47W1S1A0NNMB | DDM47W1S1A0NNMBK52        | 340100101B DCM27W2S1A9NNMB | DCM27W2S1A9NNMBK52        |
| 340100101B DBM21W1PNMB  | DBM21W1PNMBK52            | 340100101B DEM5W1P1A0NNMB  | DEM5W1P1A0NNMBK52         | 340100101B DDM24W7S1A9NNMB | DDM24W7S1A9NNMBK52        |
| 340100101B DCM8W8PNMB   | DCM8W8PNMBK52             | 340100101B DAM7W2P1A0NNMB  | DAM7W2P1A0NNMBK52         | 340100101B DDM36W4S1A9NNMB | DDM36W4S1A9NNMBK52        |
| 340100101B DCM13W6PNMB  | DCM13W6PNMBK52            | 340100101B DAM11W1P1A0NNMB | DAM11W1P1A0NNMBK52        | 340100101B DDM43W2S1A9NNMB | DDM43W2S1A9NNMBK52        |
| 340100101B DCM17W5PNMB  | DCM17W5PNMBK52            | 340100101B DBM9W4P1A0NNMB  | DBM9W4P1A0NNMBK52         | 340100101B DDM47W1S1A9NNMB | DDM47W1S1A9NNMBK52        |
| 340100101B DCM21W4APNMB | DCM21W4APNMBK52           | 340100101B DBM13W3P1A0NNMB | DBM13W3P1A0NNMBK52        | 340100101B DEM5W1P1A9NNMB  | DEM5W1P1A9NNMBK52         |
| 340100101B DCM25W3PNMB  | DCM25W3PNMBK52            | 340100101B DBM17W2P1A0NNMB | DBM17W2P1A0NNMBK52        | 340100101B DAM7W2P1A9NNMB  | DAM7W2P1A9NNMB            |

## ESA/SCC Cross Reference

| ESA-SCC<br>Part Number       | ITT Cannon<br>Part Number | ESA-SCC<br>Part Number    | ITT Cannon<br>Part Number | ESA-SCC<br>Part Number | ITT Cannon<br>Part Number |
|------------------------------|---------------------------|---------------------------|---------------------------|------------------------|---------------------------|
| 340100101B DDM36W4SF179ANMB  | DDM36W4SF179ANMBK52       | 340100101B DAM15S1A9NNMB  | DAM15S1A9NNMBK52          | 340100415B             | DM115740-13               |
| 340100101B DDM43W2SF179ANMB  | DDM43W2SF179ANMBK52       | 340100101B DBM25S1A9NNMB  | DBM25S1A9NNMBK52          | 340100419B             | DM115740-12               |
| 340100101B DDM47W1SF179ANMB  | DDM47W1SF179ANMBK52       | 340100101B DCM37S1A9NNMB  | DCM37S1A9NNMBK52          | 340100412B             | DM115742-15               |
| 340100101B DEM5W1PF179ANMB   | DEM5W1PF179ANMBK52        | 340100101B DDM50S1A9NNMB  | DDM50S1A9NNMBK52          | 340100416B             | DM115742-14               |
| 340100101B DAM7W2PF179ANMB   | DAM7W2PF179ANMBK52        | 340100101B DEM9P1A9NNMB   | DEM9P1A9NNMBK52           | 340100420B             | DM115742-13               |
| 340100101B DAM11W1PF179ANMB  | DAM11W1PF179ANMBK52       | 340100101B DAM15P1A9NNMB  | DAM15P1A9NNMBK52          | 340100413B             | DM115741-7                |
| 340100101B DBM9W4PF179ANMB   | DBM9W4PF179ANMBK52        | 340100101B DBM25P1A9NNMB  | DBM25P1A9NNMBK52          | 340100417B             | DM115741-8                |
| 340100101B DBM13W3PF179ANMB  | DBM13W3PF179ANMBK52       | 340100101B DCM37P1A9NNMB  | DCM37P1A9NNMBK52          | 340100414B             | DM115743-20               |
| 340100101B DBM17W2PF179ANMB  | DBM17W2PF179ANMBK52       | 340100101B DDM50P1A9NNMB  | DDM50P1A9NNMBK52          | 340100418B             | DM115743-22               |
| 340100101B DBM21W1PF179ANMB  | DBM21W1PF179ANMBK52       | 340100101B DEM9SF179ANMB  | DEM9SF179ANMBK52          | 340102207B             | DE-59-20                  |
| 340100101B DCM13W6PF179ANMB  | DCM13W6PF179ANMBK52       | 340100101B DAM15SF179ANMB | DAM15SF179ANMBK52         | 340102208B             | DE-60-20                  |
| 340100101B DCM17W5PF179ANMB  | DCM17W5PF179ANMBK52       | 340100101B DBM25SF179ANMB | DBM25SF179ANMBK52         | 340102209B             | DA-59-20                  |
| 340100101B DCM21W4APF179ANMB | DCM21W4APF179ANMBK52      | 340100101B DCM37SF179ANMB | DCM37SF179ANMBK52         | 340102210B             | DA-60-20                  |
| 340100101B DCM25W3PF179ANMB  | DCM25W3PF179ANMBK52       | 340100101B DDM50SF179ANMB | DDM50SF179ANMBK52         | 340102211B             | DB-59-20                  |
| 340100101B DCM27W2PF179ANMB  | DCM27W2PF179ANMBK52       | 340100101B DEM9PF179ANMB  | DEM9PF179ANMBK52          | 340102212B             | DB-60-20                  |
| 340100101B DDM24W7PF179ANMB  | DDM24W7PF179ANMBK52       | 340100101B DAM15PF179ANMB | DAM15PF179ANMBK52         | 340102213B             | DC-59-20                  |
| 340100101B DDM36W4PF179ANMB  | DDM36W4PF179ANMBK52       | 340100101B DBM25PF179ANMB | DBM25PF179ANMBK52         | 340102214B             | DC-60-20                  |
| 340100101B DDM43W2PF179ANMB  | DDM43W2PF179ANMBK52       | 340100101B DCM37PF179ANMB | DCM37PF179ANMBK52         | 340102215B             | DD-59-20                  |
| 340100101B DDM47W1PF179ANMB  | DDM47W1PF179ANMBK52       | 340100101B DDM50PF179ANMB | DDM50PF179ANMBK52         | 340102216B             | DD-60-20                  |
| 340100101B DEM9SNMB          | DEM9SNMBK52               | 340100102B DEMA9SNMB      | DEMA9SNMBK52              | 340102201B             | D20418-52                 |
| 340100101B DAM15SNMB         | DAM15SNMBK52              | 340100102B DAMA15SNMB     | DAMA15SNMBK52             | 340102206B             | D115418-70                |
| 340100101B DBM25SNMB         | DBM25SNMBK52              | 340100102B DBMA25SNMB     | DBMA25SNMBK52             | 340102258B             | D20418-101                |
| 340100101B DCM37SNMB         | DCM37SNMBK52              | 340100102B DCMA37SNMB     | DCMA37SNMBK52             | 340102202B             | D20419-74                 |
| 340100101B DDM50SNMB         | DDM50SNMBK52              | 340100102B DDMA50SNMB     | DDMA50SNMBK52             | 340102203B             | D20419-48                 |
| 340100101B DEM9PNMB          | DEM9PNMBK52               | 340100102B DEMA9PNMB      | DEMA9PNMBK52              | 340102204B             | D20420-67                 |
| 340100101B DAM15PNMB         | DAM15PNMBK52              | 340100102B DAMA15PNMB     | DAMA15PNMBK52             | 340102205B             | D20420-49                 |
| 340100101B DBM25PNMB         | DBM25PNMBK52              | 340100102B DBMA25PNMB     | DBMA25PNMBK52             | 340102244B             | D20419-73                 |
| 340100101B DCM37PNMB         | DCM37PNMBK52              | 340100102B DCMA37PNMB     | DCMA37PNMBK52             | 340102245B             | D20419-84                 |
| 340100101B DDM50PNMB         | DDM50PNMBK52              | 340100102B DDMA50PNMB     | DDMA50PNMBK52             | 340102246B             | D20420-63                 |
| 340100101B DEM9SOL3NMB       | DEM9SOL3NMBK52            | 340102217B                | DA19678-174               | 340102247B             | D20420-88                 |
| 340100101B DAM15SOL3NMB      | DAM15SOL3NMBK52           | 340102218B                | DB19678-175               | 340102225B             | DA19678-167               |
| 340100101B DBM25SOL3NMB      | DBM25SOL3NMBK52           | 340102219B                | DC19678-173               | 340102226B             | DB19678-168               |
| 340100101B DCM37SOL3NMB      | DCM37SOL3NMBK52           | 340102220B                | DD19678-176               | 340102227B             | DC19678-138               |
| 340100101B DDM50SOL3NMB      | DDM50SOL3NMBK52           | 340102221B                | DA19678-157               | 340102228B             | DD19678-161               |
| 340100101B DEM9POL3NMB       | DEM9POL3NMBK52            | 340102222B                | DB19678-171               | 340102239B             | DE19977-47                |
| 340100101B DAM15POL3NMB      | DAM15POL3NMBK52           | 340102223B                | DC19678-162               | 340102240B             | DA19977-40                |
| 340100101B DBM25POL3NMB      | DBM25POL3NMBK52           | 340102224B                | DD19678-172               | 340102241B             | DB19977-43                |
| 340100101B DCM37POL3NMB      | DCM37POL3NMBK52           | 340104001B                | DM115224-1040A            | 340102242B             | DC19977-45                |
| 340100101B DDM50POL3NMB      | DDM50POL3NMBK52           | 340104003B                | DM115224-1020A            | 340102243B             | DD19977-44                |
| 340100101B DEM9S1A0NNMB      | DEM9S1A0NNMBK52           | 340104005B                | DM115224-1010A            | 340102234B             | DE24657-16                |
| 340100101B DAM15S1A0NNMB     | DAM15S1A0NNMBK52          | 340104002B                | DM115224-2040A            | 340102235B             | DA24658-15                |
| 340100101B DBM25S1A0NNMB     | DBM25S1A0NNMBK52          | 340104004B                | DM115224-2020A            | 340102236B             | DB24659-15                |
| 340100101B DCM37S1A0NNMB     | DCM37S1A0NNMBK52          | 340104006B                | DM115224-2010A            | 340102237B             | DC24660-16                |
| 340100101B DDM50S1A0NNMB     | DDM50S1A0NNMBK52          | 340104007B                | DM115224-3040A            | 340102238B             | DD24661-13                |
| 340100101B DEM9P1A0NNMB      | DEM9P1A0NNMBK52           | 340104008B                | DM115224-4040A            | 340102229B             | DE115386                  |

## Selection Guide

| Locking Hardware |                                                                                |                                   |                                 |                                                   |                                 |                                    |                              |
|------------------|--------------------------------------------------------------------------------|-----------------------------------|---------------------------------|---------------------------------------------------|---------------------------------|------------------------------------|------------------------------|
| Backshell        | Style                                                                          | Female Screw Lock<br>see page 209 | Male Screw Lock<br>see page 208 | Sliding Lock<br>Retainer Assembly<br>see page 210 | Slide Lock Post<br>see page 211 | Spring Latch Plate<br>see page 212 | Spring Latch<br>see page 212 |
| EMI Shielded     | Snap-Together<br>Metalized Plastic<br>Straight Exit<br>see page 200            | —                                 | —                               | —                                                 | —                               | —                                  | —                            |
| EMI Shielded     | Snap-Together<br>Metalized Plastic<br>40° Exit<br>see page 200                 | —                                 | —                               | —                                                 | —                               | —                                  | —                            |
| EMI Shielded     | Die Cast Zinc<br>Metal<br>see page 202                                         | —                                 | ▲                               | —                                                 | —                               | —                                  | —                            |
| Metal            | Deep Straight<br>Clamp<br>see page 203                                         | ●                                 | ●                               | ●                                                 | ●                               | ●                                  | ●                            |
| Metal            | Round Cable<br>Clamp<br>see page 203                                           | ●                                 | ●                               | ●                                                 | ●                               | ●                                  | ●                            |
| Metal            | Short Straight<br>Clamp<br>see page 204                                        | ●                                 | ●                               | ●                                                 | ●                               | ●                                  | ●                            |
| Metal            | 90° Entry<br>see page 204                                                      | ●                                 | ●                               | ●                                                 | ●                               | ●                                  | ●                            |
| Plastic          | Snap-Together<br>Universal<br>see page 205                                     | ●                                 | ●                               | —                                                 | —                               | —                                  | —                            |
| Plastic          | One-Piece<br>Snap-Together<br>see page 205                                     | —                                 | ▲                               | —                                                 | —                               | —                                  | —                            |
| Plastic          | One-Piece Plastic<br>Straight Exit<br>see page 206                             | —                                 | —                               | ●                                                 | ●                               | ●                                  | ●                            |
| Plastic          | One-Piece Plastic<br>90° Exit<br>see page 206                                  | —                                 | —                               | ●                                                 | ●                               | ●                                  | ●                            |
| Plastic          | Dataphone<br>see page 206                                                      | —                                 | ▲                               | —                                                 | —                               | —                                  | —                            |
| Plastic          | Quick Disconnect<br>for IDC Cable<br>see page 207                              | —                                 | —                               | —                                                 | —                               | —                                  | —                            |
| Plastic          | Quick Disconnect for<br>Round Cable —<br>Straight and 90° Exit<br>see page 207 | —                                 | —                               | —                                                 | —                               | —                                  | —                            |

- ▲ Supplied with backshell  
 ● Optional, compatible locking hardware  
 — Not compatible

## Selection Guide

| Locking Hardware             |                                |                                    |                                   |                                    |                                    |                            |                                                     |
|------------------------------|--------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|----------------------------|-----------------------------------------------------|
| Locking Hook<br>see page 207 | Locking Spring<br>see page 207 | Jackscrew Assembly<br>see page 213 | Jackpost Assembly<br>see page 213 | Recessed Jackscrew<br>see page 201 | Extended Jackscrew<br>see page 201 | Thumbscrew<br>see page 201 | Jackpost for<br>In-Line Connections<br>see page 201 |
| —                            | —                              | —                                  | —                                 | •                                  | •                                  | •                          | •                                                   |
| —                            | —                              | —                                  | —                                 | •                                  | •                                  | •                          | •                                                   |
| —                            | —                              | —                                  | —                                 | —                                  | —                                  | —                          | —                                                   |
| —                            | —                              | —                                  | •                                 | —                                  | —                                  | —                          | —                                                   |
| —                            | —                              | —                                  | •                                 | —                                  | —                                  | —                          | —                                                   |
| —                            | —                              | —                                  | •                                 | —                                  | —                                  | —                          | —                                                   |
| —                            | —                              | —                                  | —                                 | —                                  | —                                  | —                          | —                                                   |
| —                            | —                              | •                                  | —                                 | —                                  | —                                  | —                          | —                                                   |
| —                            | —                              | —                                  | —                                 | —                                  | —                                  | —                          | —                                                   |
| —                            | —                              | —                                  | —                                 | —                                  | —                                  | —                          | —                                                   |
| —                            | —                              | —                                  | —                                 | —                                  | —                                  | —                          | —                                                   |
| —                            | —                              | —                                  | —                                 | —                                  | —                                  | —                          | —                                                   |
| •                            | •                              | —                                  | —                                 | —                                  | —                                  | —                          | —                                                   |
| •                            | •                              | —                                  | —                                 | —                                  | —                                  | —                          | —                                                   |

## Snap-Together Metalized Plastic

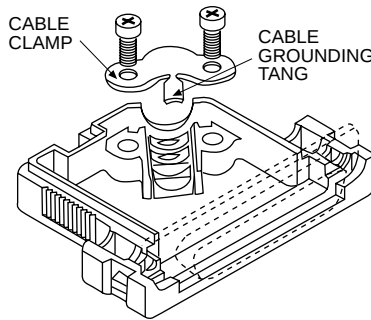
Metalized plastic backshells reduce EMI/RFI emissions.

Metalized plastic provides a light weight solution. Design includes integral strain relieving cable clamp.

### Product Features

- Improves conformance to FCC DOC #20780 shielding requirements
- No crimp ferrule tooling needed
- Quick and simple assembly using snap-together design feature

### Attenuation



Note: Cable grounding tang not available on DE size backshell.

### Specifications

Attenuation: -49dB @ 100 MHz

Temperature Range: -20° C to 80° C

### Materials and Finishes

Material: Thermoplastic, UL 94V-0 rated

Finish: Nickel over Copper

## Straight Exit



Kit consists of 1 front shell, 1 rear shell, 1 cable clamp, 2 screws  
Optional locking hardware sold separately, see page 201.



| Shell Size | Layout | Part Number  | A<br>±0,15 (.006) | B<br>±0,30 (.012) | C<br>±0,30 (.012) | D<br>±0,30 (.120) | E<br>±0,20 (.008) | Ø H<br>Max.  |
|------------|--------|--------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------|
| DE         | 9      | DE121073-154 | 24,95 (.982)      | 30,81 (1.213)     | 23,70 (.933)      | 16,00 (.630)      | 35,99 (1.417)     | 7,32 (.288)  |
| DA         | 15     | DA121073-150 | 33,30 (1.311)     | 39,09 (1.539)     | 31,80 (1.252)     | 16,00 (.630)      | 42,00 (1.654)     | 8,31 (.327)  |
| DB         | 25     | DB121073-151 | 47,00 (1.850)     | 53,01 (2.087)     | 45,01 (1.772)     | 16,00 (.630)      | 42,00 (1.654)     | 10,52 (.414) |
| DC         | 37     | DC121073-152 | 63,45 (2.498)     | 69,29 (2.728)     | 60,30 (2.374)     | 16,00 (.630)      | 42,00 (1.654)     | 12,32 (.485) |
| DD         | 50     | DD121073-153 | 61,10 (2.410)     | 66,90 (2.634)     | 58,30 (2.295)     | 19,00 (.748)      | 42,00 (1.654)     | 13,00 (.512) |

## 40° Exit



Kit consists of 1 front shell, 1 rear shell, 1 cable clamp, 2 screws  
Optional locking hardware sold separately, see page 201.



| Shell Size | Layout | Part Number | B<br>±0,30 (.012) | C<br>±0,30 (.012) | D<br>±0,30 (.012) | E<br>±0,20 (.008) | Cable Diameter |              |
|------------|--------|-------------|-------------------|-------------------|-------------------|-------------------|----------------|--------------|
|            |        |             |                   |                   |                   |                   | Min.           | Max.         |
| DE         | 9      | DE121073-54 | 35,99 (1.417)     | 22,00 (.866)      | 16,00 (.630)      | 35,99 (1.417)     | 3,51 (.138)    | 7,49 (.295)  |
| DA         | 15     | DA121073-50 | 44,29 (1.744)     | 27,31 (1.075)     | 16,00 (.630)      | 42,01 (1.654)     | 6,50 (.256)    | 8,99 (.354)  |
| DB         | 25     | DB121073-51 | 57,99 (2.283)     | 41,00 (1.614)     | 16,00 (.630)      | 42,01 (1.654)     | 6,50 (.256)    | 11,00 (.433) |
| DC         | 37     | DC121073-52 | 74,50 (2.933)     | 57,51 (2.264)     | 16,00 (.630)      | 42,01 (1.654)     | 6,50 (.256)    | 11,00 (.433) |
| DD         | 50     | DD121073-53 | 72,97 (2.873)     | 54,99 (2.165)     | 19,00 (.748)      | 42,01 (1.654)     | 8,99 (.354)    | 13,00 (.512) |

Locking Hardware for Snap-Together EMI Shielded Backshell

Recessed Jackscrew



|                                  |              |
|----------------------------------|--------------|
| Part Number:                     | 250-8501-004 |
| Material:                        | Brass        |
| Finish:                          | Nickel       |
| Quantity Required per Connector: | 2            |

Extended Jackscrew



|                                  |                                           |
|----------------------------------|-------------------------------------------|
| Part Number:                     | 250-8501-009 (M3)<br>250-8501-010 (#4-40) |
| Material:                        | Brass                                     |
| Finish:                          | Nickel                                    |
| Quantity Required per Connector: | 2                                         |

Thumbscrew



|                                  |              |
|----------------------------------|--------------|
| Part Number:                     | 250-8501-013 |
| Material:                        | Brass        |
| Finish:                          | Nickel       |
| Quantity Required per Connector: | 2            |

Jackpost for In-Line Connections

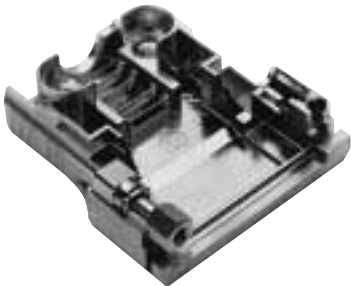
Rectangular Nut



Jackpost



Jackpost Assembly



Assembly consists of 1 rectangular nut, 1 jackpost, 1 #4-40 lock washer.

|                                  |            |
|----------------------------------|------------|
| Part Number:                     | D121073-19 |
| Material:                        | Brass      |
| Finish:                          | Nickel     |
| Quantity Required per Connector: | 2          |

## Die Cast Zinc Metal Backshell

## Straight Exit



Die cast metal backshells reduce EMI/RFI emissions.

Die cast metal backshells offer improved shielding in a rugged package.

## Product Features

- Improves conformance to FCC DOC #20780 shielding requirements
- No crimp ferrule tooling needed
- Kit consists of 1 front shell, 1 rear shell, 2 screws, 2 hex nuts, 2 mounting screws, 2 end brackets, 1 set of compression inserts (see this page)

| Shell Size | Layout | Part Number  | A<br>±0,13 (.005) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | Ø E<br>±0,13 (.005) | F<br>±0,13 (.005) |
|------------|--------|--------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|
| DE         | 9      | 980-2000-345 | 31,12 (1.225)     | 37,21 (1.465)     | 15,75 (.620)      | 15,75 (.620)      | 10,16 (.400)        | 24,99 (.984)      |
| DA         | 15     | 980-2000-346 | 39,12 (1.540)     | 40,64 (1.600)     | 15,75 (.620)      | 15,75 (.620)      | 10,16 (.400)        | 33,32 (1.312)     |
| DB         | 25     | 980-2000-347 | 53,09 (2.090)     | 39,37 (1.550)     | 17,53 (.690)      | 15,75 (.620)      | 13,34 (.525)        | 47,17 (1.857)     |
| DC         | 37     | 980-2000-348 | 69,34 (2.730)     | 45,72 (1.800)     | 21,95 (.864)      | 15,75 (.620)      | 18,44 (.726)        | 63,50 (2.500)     |
| DD         | 50     | 980-2000-349 | 66,70 (2.626)     | 45,72 (1.800)     | 21,95 (.864)      | 18,54 (.730)      | 18,44 (.726)        | 61,11 (2.406)     |

## Specifications

|                    |                   |
|--------------------|-------------------|
| Attenuation:       | -50 dB @ 1000 MHz |
| Temperature Range: | -20° C to 80° C   |

## Materials and Finishes

|                      |            |
|----------------------|------------|
| Backshell Material:  | Zinc       |
| Backshell Finish:    | Clear Zinc |
| Compression Inserts: | PVC        |
| Hardware Material:   | Steel      |
| Hardware Finish:     | Clear Zinc |

## Attenuation



## Compression Inserts (Included With Die Cast Zinc Metal Backshell)

Compression inserts accommodate a wide variety of cable sizes.

| Position | Cable Diameter |
|----------|----------------|
| 9, 15    | .190/.350      |
| 25       | .190/.460      |
| 37, 50   | .300/.680      |

9 and 15 Position\*



25 Position\*



37 and 50 Position\*



\* Inserts may be supplied mirror image

| Position | #1           |              | #2           |              | #3           |              | #4           |              | #5           |              | #6           |             |
|----------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|
|          | O.D.         | I.D.         | O.D.         | I.D.         | O.D.         | I.D.         | O.D.         | I.D.         | O.D.         | I.D.         | O.D.         | I.D.        |
| 9, 15    | 12,07 (.475) | 8,13 (.320)  | 9,14 (.360)  | 8,00 (.315)  | 9,14 (.360)  | 6,48 (.255)  | 9,14 (.360)  | 7,24 (.285)  | 9,14 (.360)  | 5,33 (.210)  | —            | —           |
| 25       | 15,24 (.600) | 11,43 (.450) | 11,43 (.450) | 10,41 (.410) | 11,43 (.450) | 9,40 (.370)  | 11,43 (.450) | 7,62 (.300)  | 11,43 (.450) | 5,84 (.230)  | —            | —           |
| 37, 50   | 16,64 (.655) | 14,48 (.570) | 17,78 (.700) | 15,75 (.620) | 20,57 (.810) | 16,51 (.650) | 16,64 (.655) | 12,70 (.500) | 16,64 (.655) | 10,80 (.425) | 16,64 (.655) | 8,89 (.350) |

## Metal Backshell

Metal Backshells provide strain relief.  
Various profiles available for different cable routing requirements.

Product Features  
Qualified to MIL-Spec M85049

## Materials and Finishes

|                     |                              |
|---------------------|------------------------------|
| Backshell Material: | Low Carbon Steel             |
| Finish:             | Yellow Chromate over Cadmium |
| Hardware Material:  | Steel                        |

## Deep Straight Clamp



Kit consists of 1 shell, 2 cable clamps,  
2 screws, 2 hex nuts

| Shell Size | Layout | Part Number | Mil Spec Part Number | A<br>±0,38 (.015) | B<br>±0,572 (.0225) | C<br>±0,13 (.005) | D<br>max.    | E<br>±0,38 (.015) | F<br>±0,38 (.015) | G<br>±0,38 (.015) | H<br>max.     |
|------------|--------|-------------|----------------------|-------------------|---------------------|-------------------|--------------|-------------------|-------------------|-------------------|---------------|
| DE         | 9      | DE24657     | M85049/48-1-1        | 30,56 (1.203)     | 12,484 (.4915)      | 24,99 (.984)      | 14,68 (.578) | 9,53 (.375)       | 9,53 (.375)       | 19,05 (.750)      | 31,75 (1.250) |
| DA         | 15     | DA24658     | M85049/48-1-2        | 38,89 (1.531)     | 12,484 (.4915)      | 33,32 (1.312)     | 14,68 (.578) | 18,11 (.713)      | 7,93 (.312)       | 19,05 (.750)      | 31,75 (1.250) |
| DB         | 25     | DB24659     | M85049/48-1-3        | 52,78 (2.078)     | 12,484 (.4915)      | 47,04 (1.852)     | 14,68 (.578) | 25,40 (1.000)     | 7,93 (.312)       | 25,40 (1.000)     | 39,70 (1.563) |
| DC         | 37     | DC24660     | M85049/48-1-4        | 69,04 (2.718)     | 12,484 (.4915)      | 63,50 (2.500)     | 14,68 (.578) | 34,93 (1.375)     | 7,93 (.312)       | 25,40 (1.000)     | 39,70 (1.563) |
| DD         | 50     | DD24661     | M85049/48-1-5        | 66,68 (2.625)     | 15,253 (.6005)      | 61,11 (2.406)     | 17,45 (.687) | 35,71 (1.406)     | 10,31 (.406)      | 28,57 (1.125)     | 42,88 (1.688) |

## Round Cable Clamp



Kit consists of 1 shell, 2 screws, 2 hex nuts

| Shell Size | Layout | Part Number | Mil Spec Part Number | A<br>±0,38 (.015) | B<br>±0,38 (.015) | C<br>±0,13 (.005) | Ø D<br>max.  | E<br>±0,38 (.015) | F<br>±0,38 (.015) | G<br>±0,76 (.030) |
|------------|--------|-------------|----------------------|-------------------|-------------------|-------------------|--------------|-------------------|-------------------|-------------------|
| DE         | 9      | DE44994     | M85049/48-2-1        | 30,68 (1.208)     | 12,70 (.500)      | 24,99 (.984)      | 10,31 (.406) | 16,79 (.661)      | 3,18 (.125)       | 26,18 (1.031)     |
| DA         | 15     | DA20961     | M85049/48-2-2        | 38,89 (1.531)     | 12,70 (.500)      | 33,33 (1.312)     | 10,31 (.406) | 24,99 (.984)      | 3,18 (.125)       | 26,18 (1.031)     |
| DB         | 25     | DB20962     | M85049/48-2-3        | 52,78 (2.078)     | 12,70 (.500)      | 47,04 (1.852)     | 15,06 (.593) | 38,48 (1.515)     | 4,75 (.187)       | 26,98 (1.062)     |
| DC         | 37     | DC20963     | M85049/48-2-4        | 69,04 (2.718)     | 12,70 (.500)      | 63,50 (2.500)     | 18,23 (.718) | 55,14 (2.171)     | 6,35 (.250)       | 26,98 (1.062)     |
| DD         | 50     | DD20964     | M85049/48-2-5        | 66,68 (2.625)     | 15,47 (.609)      | 61,11 (2.406)     | 20,62 (.812) | 53,16 (2.093)     | 7,92 (.312)       | 26,98 (1.062)     |

## Short Straight Clamp



Kit consists of 1 shell, 2 or 3 screws,  
2 or 3 hex nuts



| Shell Size | Layout | Part Number | Mil Spec Part Number | No. of Cable Locking Screws Included | A<br>±0,38 (.015) | B<br>±0,38 (.015) | C<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,38 (.015) | G<br>±0,89 (.035) |
|------------|--------|-------------|----------------------|--------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DA         | 15     | DA19678-1   | M85049/48-3-2        | 2                                    | 38,88 (1.531)     | 12,70 (.500)      | 33,33 (1.312)     | 7,51 (.296)       | 7,93 (.312)       | 16,36 (.644)      |
| DB         | 25     | DB19678-2   | M85049/48-3-3        | 2                                    | 52,78 (2.078)     | 12,70 (.500)      | 47,04 (1.852)     | 7,51 (.296)       | 20,22 (.796)      | 16,36 (.644)      |
| DC         | 37     | DC19678-3   | M85049/48-3-4        | 3                                    | 69,04 (2.718)     | 12,70 (.500)      | 63,50 (2.500)     | 7,51 (.296)       | 17,45 (.687)      | 16,36 (.644)      |
| DD         | 50     | DD19678-4   | M85049/48-3-5        | 3                                    | 66,68 (2.625)     | 15,47 (.609)      | 61,11 (2.406)     | 9,91 (.390)       | 17,45 (.687)      | 17,63 (.694)      |

DE-9 is not available.

## 90° Entry



Kit consists of 1 shell, 1 cable clamp, 1 screw,  
1 nut, 2 rivnuts (assembled)



| Shell Size | Layout | Part Number | Mil Spec Part Number | A<br>±0,38 (.015) | B<br>±0,76 (.030) | C<br>±0,13 (.005) | E<br>±0,76 (.030) | F<br>±0,76 (.030) | G<br>±0,76 (.030) | H<br>±0,76 (.030) |
|------------|--------|-------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 9      | DE19977-5   | M85049/50-1          | 30,56 (1.203)     | 18,24 (.718)      | 24,99 (.984)      | 11,10 (.437)      | 11,10 (.437)      | 11,89 (.468)      | 7,14 (.281)       |
| DA         | 15     | DA19977-1   | M85049/50-2          | 38,89 (1.531)     | 18,24 (.718)      | 33,33 (1.312)     | 11,10 (.437)      | 11,10 (.437)      | 11,89 (.468)      | 7,14 (.281)       |
| DB         | 25     | DB19977-2   | M85049/50-3          | 52,78 (2.078)     | 24,58 (.968)      | 47,04 (1.852)     | 11,10 (.437)      | 15,88 (.625)      | 11,89 (.468)      | 7,14 (.281)       |
| DC         | 37     | DC19977-3   | M85049/50-4          | 69,04 (2.718)     | 30,15 (1.187)     | 63,50 (2.500)     | 11,10 (.437)      | 20,63 (.812)      | 11,89 (.468)      | 7,14 (.281)       |
| DD         | 50     | DD19977-4   | M85049/50-5          | 66,68 (2.625)     | 31,75 (1.250)     | 61,11 (2.406)     | 14,28 (.562)      | 23,01 (.906)      | 13,49 (.531)      | 8,71 (.343)       |

Plastic Backshell

Snap-Together Universal



A 2-piece snap-together design for quick assembly  
Customer furnishes tie-wrap



Materials and Finishes

Material: Black Thermoplastic, UL 94V-0 rated

| Shell Size | Layout | Part Number | Ø B max.     | C ±0,20 (.008) | D ±0,20 (.008) |
|------------|--------|-------------|--------------|----------------|----------------|
| DE         | 9      | DE115339-20 | 7,01 (.276)  | 17,00 (.669)   | 19,51 (.768)   |
| DA         | 15     | DA115339-21 | 9,60 (.378)  | 17,00 (.669)   | 27,79 (1.094)  |
| DB         | 25     | DB115339-22 | 11,61 (.457) | 17,00 (.669)   | 41,61 (1.638)  |
| DC         | 37     | DC115339-23 | 13,00 (.512) | 17,00 (.669)   | 57,99 (2.283)  |
| DD         | 50     | DD115339-24 | 16,00 (.630) | 19,81 (.780)   | 52,32 (2.060)  |

One-Piece Snap-Together



Low cost  
Easy to assemble  
Mounting hardware included  
2 thumbscrews, 2 cable clamps



Materials and Finishes

Backshell Material: Polypropylene  
Hardware Material: Steel  
Hardware Finish: Yellow chromate over zinc

| Shell Size | Layout | Part Number | A             | C             | Ø D max.    | E             |
|------------|--------|-------------|---------------|---------------|-------------|---------------|
| DE         | 9      | DEBS-9      | 35,20 (1.386) | 24,99 (.984)  | 5,69 (.224) | 27,51 (1.083) |
| DA         | 15     | DABS-15     | 43,31 (1.705) | 33,33 (1.312) | 5,69 (.224) | 31,19 (1.228) |
| DB         | 25     | DBBS-25     | 57,20 (2.252) | 47,04 (1.852) | 6,50 (.256) | 38,30 (1.508) |

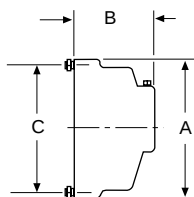
DC-37 and DD-50 are not available.

## One-Piece Plastic

## Straight Exit



Kit consists of 1 shell, 1 cable clamp,  
1 set screw  
Mounting hardware included  
2 screws #4-24 x 5/16 long self-tapping  
Accommodates spring latches



## Materials and Finishes

|                     |                                         |
|---------------------|-----------------------------------------|
| Backshell Material: | Black Thermoplastic,<br>UL 94V-2 rated  |
| Hardware Material:  | Steel                                   |
| Hardware Finish:    | Yellow Chromate over<br>Cadmium or Zinc |

| Shell Size | Layout | Part Number | A<br>±0,38 (.015) | B<br>±0,38 (.015) | C<br>±0,13 (.005) | D<br>±0,38 (.015) | Ø E<br>±0,25 (.010) | F<br>±0,25 (.010) | G<br>±0,25 (.010) |
|------------|--------|-------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|-------------------|
| DE         | 9      | DE51218     | 30,94 (1.218)     | 25,40 (1.000)     | 24,99 (.984)      | 12,70 (.500)      | 7,14 (.281)         | —                 | —                 |
| DA         | 15     | DA51210     | 39,27 (1.546)     | 25,40 (1.000)     | 33,33 (1.312)     | 12,70 (.500)      | 9,14 (.360)         | —                 | —                 |
| DB         | 25     | DB51212     | 53,16 (2.093)     | 31,75 (1.250)     | 47,04 (1.852)     | 12,70 (.500)      | —                   | 12,52 (.493)      | 9,15 (.360)       |
| DC         | 37     | DC51214     | 69,44 (2.734)     | 38,10 (1.500)     | 63,50 (2.500)     | 12,70 (.500)      | —                   | 17,63 (.694)      | 9,15 (.360)       |
| DD         | 50     | DD51216     | 67,06 (2.640)     | 38,10 (1.500)     | 61,11 (2.406)     | 15,47 (.609)      | —                   | 18,64 (.734)      | 11,89 (.468)      |

## 90° Exit



Kit consists of 1 shell, 1 cable clamp,  
1 set screw  
Mounting hardware included  
2 screws #4-24 x 5/16 long self-tapping



## Materials and Finishes

|                     |                                         |
|---------------------|-----------------------------------------|
| Backshell Material: | Black Thermoplastic,<br>UL 94V-2 rated  |
| Hardware Material:  | Steel                                   |
| Hardware Finish:    | Yellow Chromate over<br>Cadmium or Zinc |

| Shell Size | Layout | Part Number | A<br>±0,38 (.015) | B<br>±0,38 (.015) | C<br>±0,13 (.005) | D<br>±0,38 (.015) | Ø H<br>±0,25 (.010) | J<br>±0,25 (.010) | K<br>±0,25 (.010) |
|------------|--------|-------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|-------------------|
| DE         | 9      | DE51219     | 37,95 (1.494)     | 25,40 (1.000)     | 24,99 (.984)      | 12,70 (.500)      | 7,14 (.281)         | —                 | —                 |
| DA         | 15     | DA51211     | 46,28 (1.822)     | 25,40 (1.000)     | 33,33 (1.312)     | 12,70 (.500)      | 9,14 (.360)         | —                 | —                 |
| DB         | 25     | DB51213     | 60,15 (2.368)     | 31,75 (1.250)     | 47,04 (1.852)     | 12,70 (.500)      | —                   | 12,52 (.493)      | 9,15 (.360)       |
| DC         | 37     | DC51215     | 76,43 (3.009)     | 38,10 (1.500)     | 63,50 (2.500)     | 12,70 (.500)      | —                   | 17,63 (.694)      | 9,15 (.360)       |
| DD         | 50     | DD51217     | 74,04 (2.915)     | 38,10 (1.500)     | 61,11 (2.406)     | 15,47 (.609)      | —                   | 18,64 (.734)      | 11,89 (.468)      |

## Dataphone



Available in 25 position only  
Mounting hardware included  
2 screws #4-40 x 11/16 long



## Materials and Finishes

|                     |                                        |
|---------------------|----------------------------------------|
| Backshell Material: | Black Thermoplastic,<br>UL 94V-0 rated |
| Hardware Material:  | Steel                                  |
| Hardware Finish:    | Clear Chromate over<br>Cadmium or Zinc |

| Shell Size | Layout | Part Number | Max. Cable Entry |
|------------|--------|-------------|------------------|
| DB         | 25     | DB51226-1B  | 7,92 (.312)      |

## Quick Disconnect for IDC Cable

IDC



Kit consists of 1 front shell, 1 rear shell,  
2 strain reliefs, 5 screws



\* Order optional locking hardware separately.

## Materials and Finishes

Material: Black Thermoplastic,  
UL 94V-0 rated

| Shell Size | Layout | Part Number | A max.        | C ±0,13 (.005) | E ±0,20 (.008) |
|------------|--------|-------------|---------------|----------------|----------------|
| DE         | 9      | DE115386-1B | 40,69 (1.602) | 24,99 (.984)   | 14,99 (.590)   |
| DA         | 15     | DA115386-2B | 49,00 (1.929) | 33,30 (1.311)  | 23,29 (.917)   |
| DB         | 25     | DB115386-3B | 62,69 (2.468) | 47,04 (1.852)  | 36,98 (1.456)  |
| DC         | 37     | DC115386-4B | 79,20 (3.118) | 63,50 (2.500)  | 53,49 (2.106)  |

## Quick Disconnect for Round Cable

Straight and 90° Exit



Kit consists of 1 front shell, 1 rear shell,  
1 cable clamp, 1 spacer, 4 self-tapping  
screws, 2 machined screws



\* Order optional locking hardware separately.

## Materials and Finishes

Material: Black Thermoplastic,  
UL 94V-0 rated

| Shell Size | Layout | Part Number | A max.        | B max.        | C ±0,15 (.006) | D max.       | E min.       | F min.       |
|------------|--------|-------------|---------------|---------------|----------------|--------------|--------------|--------------|
| DE         | 9      | DE115339    | 41,33 (1.627) | 32,41 (1.276) | 25,00 (.984)   | 16,51 (.650) | 7,70 (.303)  | 6,70 (.264)  |
| DA         | 15     | DA115339-1  | 49,63 (1.954) | 32,41 (1.276) | 33,30 (1.311)  | 16,51 (.650) | 7,70 (.303)  | 6,70 (.264)  |
| DB         | 25     | DB115339-2  | 63,65 (2.506) | 40,44 (1.592) | 47,04 (1.852)  | 16,51 (.650) | 7,70 (.303)  | 17,70 (.697) |
| DC         | 37     | DC115339-3  | 79,86 (3.144) | 42,42 (1.670) | 63,50 (2.500)  | 16,51 (.650) | 7,70 (.303)  | 17,70 (.697) |
| DD         | 50     | DD115339-4  | 77,57 (3.054) | 42,42 (1.670) | 61,10 (2.406)  | 19,51 (.768) | 10,69 (.421) | 17,70 (.697) |

## Optional Locking Hardware/Mechanism

Optional hardware provides quick disconnect for  
either flat IDC cable or round jacketed cable.

Order 2 per connector

Material: Corrosion-resistant steel

Locking Hook



Locking Spring



Lock Hook  
Part Number

015-8755-000

015-8755-001

Lock Spring  
Part Number

259-8760-000

NOTE: Not for use on rear panel mounted connectors.

Screw Lock Assemblies

ITT Cannon offers the largest variety of locking and latching hardware. Refer to the accessories selection guide on pages 198-199 for use with ITT Cannon backshells.

**Product Features**  
Ensures positive mating  
Provides locking and latching for high vibration applications



Male Screw Lock



Kit consists of 1 screw and 1 clip  
Order 2 per connector

|           |                                      |
|-----------|--------------------------------------|
| Material: | Steel                                |
| Finish:   | Yellow Chromate over Cadmium or Zinc |

| Shell Size     | Part Number | A<br>±0.38 (.015) | B<br>±0.25 (.010) | C<br>±0.13 (.005) |
|----------------|-------------|-------------------|-------------------|-------------------|
| DE, DA, DB, DC | D20419      | 14,10 (.555)      | 6,35 (.250)       | 1,22 (.048)       |
| DE, DA, DB, DC | D20419-18   | 14,10 (.555)      | 7,14 (.281)       | 1,70 (.067)       |
| DE, DA, DB, DC | D20419-21   | 14,10 (.555)      | 7,14 (.281)       | 2,34 (.092)       |
| DE, DA, DB, DC | D20419-104  | 14,10 (.555)      | 7,92 (.312)       | 2,34 (.092)       |
| DD             | D20420      | 16,66 (.656)      | 6,35 (.250)       | 1,22 (.048)       |
| DD             | D20420-13   | 16,66 (.656)      | 7,14 (.281)       | 1,70 (.067)       |
| DD             | D20420-15   | 16,66 (.656)      | 7,14 (.281)       | 2,34 (.092)       |
| DD             | D20420-86   | 16,66 (.656)      | 7,92 (.312)       | 2,34 (.092)       |

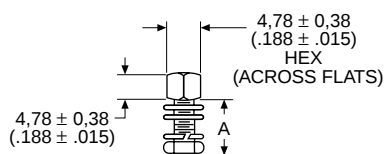
## Female Screw Lock



Kit consists of 1 nut, 3 washers, 1 lock washer, 1 hex nut  
Order 2 per connector

Material: Steel

## Front Panel Mount



## Rear Panel Mount



NOTE: (1) A 6 inch/pound (female) and 4 inch/pound (male) maximum torque during assembly is recommended on steel screw lock assemblies.  
(2) A third flat washer is supplied for front panel mounting of tab shell connectors.

| Yellow Chromate over Cadmium | Mil Spec Part Number | Zinc With Clear Chromate | A<br>±0.38 (.015) |
|------------------------------|----------------------|--------------------------|-------------------|
| D20418-2                     | M24308/26-1          | D20418-80                | 7.92 (.312)       |
| D20418-50                    | —                    | —                        | 12.70 (.500)      |
| D20418-39                    | M24308/26-2          | —                        | 15.88 (.625)      |
| D20418-74                    | —                    | —                        | 19.05 (.750)      |

## Female Screw Lock for High Volume Applications



Order 2 per connector  
Tool required for installation. See page 211.

Material: Steel

Finish: Zinc



NOTE: Not suitable for rear panel mounting.

| Part Number  | Thread Code | Nominal Panel Thickness   |
|--------------|-------------|---------------------------|
| 980-2000-858 | #4-40       | 1.09 – 0.91 (.043 – .036) |
| 980-2000-859 | M3          | 1.09 – 0.91 (.043 – .036) |

## Screw Locks for Connectors with Integral Threaded Inserts



Kit consists of 1 jackpost, 1 lock washer  
Order 2 per connector

Material: Brass

Finish: Nickel

## Jackpost



| Part Number | Thread Code  |              |
|-------------|--------------|--------------|
|             | THD A        | THD B        |
| D121073-39  | #4-40 UNC-2B | #4-40 UNC-2A |
| D121073-40  | M3           | #4-40 UNC-2A |
| D121073-41  | #4-40 UNC-2B | M3           |
| D121073-42  | M3           | M3           |

Slide Lock Assemblies

ITT Cannon offers the largest variety of locking and latching hardware. Refer to the accessories selection guide on pages 198-199 for use with ITT Cannon backshells.

- Product Features
- Ensures positive mating
  - Provides locking and latching for high vibration applications



Sliding Lock Retainer Assembly



Ideal for Ethernet Applications  
Kit consists of 1 sliding lock plate, 2 mounting screws, 2 lock washers, 2 hex nuts  
Order 1 kit per connector



| Description        | Material        | Finish/<br>Treatment                 |
|--------------------|-----------------|--------------------------------------|
| Sliding Lock Plate | Stainless Steel | Passivated                           |
| Screw, Mounting    |                 |                                      |
| Washer, Lock       | Steel           | Yellow Chromate Over Cadmium or Zinc |
| Nut, Hex           |                 |                                      |

| Shell Size | Layout | Part Number | A<br>±0,38 (.015) | B<br>±0,38 (.015) | C<br>±0,13 (.005) |
|------------|--------|-------------|-------------------|-------------------|-------------------|
| DE         | 9      | DE51224-1   | 35,05 (1.380)     | 12,70 (.500)      | 25,00 (.984)      |
| DA         | 15     | DA51220-1*  | 43,70 (1.720)     | 12,70 (.500)      | 33,32 (1.312)     |
| DB         | 25     | DB51221-1   | 57,40 (2.260)     | 12,70 (.500)      | 47,04 (1.852)     |
| DC         | 37     | DC51222-1   | 73,86 (2.908)     | 12,70 (.500)      | 63,50 (2.500)     |
| DD         | 50     | DD51223-1   | 71,47 (2.814)     | 15,47 (.609)      | 61,11 (2.406)     |

\* Meets IEEE 802.3 Ethernet Specification

## Slide Lock Post Assemblies



Kit consists of 1 post, 2 washers, 1 lock washer, 1 hex nut  
Order 2 kits per connector

Part Number: D53018

### Materials and Finishes

Material: Steel

Finish: Yellow Chromate over Cadmium or Zinc



NOTE: When rear-mounting connector to a 1/16" panel, delete the 2 washers.

## Slide Lock Post for High Volume Applications



Order 2 per connector  
Tool required for installation. See this page.

Part Number: 980-2000-860

Panel Thickness: 1,09-0,91 (.043-.036)

### Materials and Finishes

Material: Stainless Steel

Treatment: Passivated



NOTE: Not suitable for rear panel mounting

## Tool for High Volume Applications



Part Number: 995-2000-092

## Spring Latch Assemblies

ITT Cannon offers the largest variety of locking and latching hardware. Refer to the accessories selection guide on pages 198-199 for use with ITT Cannon Connectors.

### Product Features

- Low Cost
- Minimizes field connection time
- Positive lock between connectors
- Packaged 2 kits per bag

### Materials and Finishes

|            |                 |
|------------|-----------------|
| Material:  | Stainless Steel |
| Treatment: | Passivated      |

Unlocked



Locked



### Spring Latch Plate Assembly



| Shell Size     | Layout        | Part Number | A<br>±0,38 (.015) | B<br>±0,38 (.015) |
|----------------|---------------|-------------|-------------------|-------------------|
| DE, DA, DB, DC | 9, 15, 25, 37 | D110278     | 12,42 (.489)      | 14,35 (.565)      |
| DD             | 50            | D110280     | 15,47 (.609)      | 17,09 (.673)      |

Kit consists of 1 plate, 1 screw, 1 lock washer, 1 hex nut  
Order 2 kits per connector

### Spring Latch Assembly



\* Dimension does not apply to rear panel mounting.

| Shell Size     | Layout        | Part Number | A<br>±0,38 (.015) | B<br>±0,38 (.015) | C<br>±0,51 (.020) |
|----------------|---------------|-------------|-------------------|-------------------|-------------------|
| DE, DA, DB, DC | 9, 15, 25, 37 | D110277     | 12,42 (.489)      | 14,35 (.565)      | 18,59 (.732)      |
| DD             | 50            | D110279     | 15,49 (.609)      | 17,09 (.673)      | 18,59 (.732)      |

Kit consists of 1 spring, 1 screw, 1 bracket, 1 lock washer, 1 hex nut  
Order 2 kits per connector  
Front panel mounting

## Jackscrew/Jackpost Assemblies

ITT Cannon offers the largest variety of locking and latching hardware. Refer to the accessories selection guide on pages 198-199 for use with ITT Cannon Connectors.



### Jackscrew Assembly



Kit consists of 2 studs, 2 heads, 1 tube retaining compound  
Order one kit per connector

Part Number: D110550

#### Materials and Finishes

Material: Stainless Steel



### Jackpost Assembly



Kit consists of 2 posts, 2 hex nuts, 2 lock washers  
Order one kit per connector

Part Number: D110551

#### Materials and Finishes

Material: Stainless Steel

Treatment: Passivated



NOTE: Jackpost is not compatible with rear-panel mount connectors.

Guide Pin Plate

Female

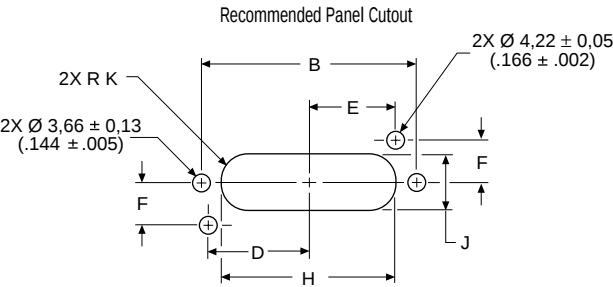


Useful in blind mate applications.  
Kit consists of 1 plate, 2 screws  
Guide pin inserts for Size 8 cavities for  
Combo D® connectors also available. See  
page 95.



|                              |  |                                            |
|------------------------------|--|--------------------------------------------|
| Plate and Hardware Material: |  | Steel                                      |
| Plate and Hardware Finish:   |  | Yellow Chromate<br>over Zinc or<br>Cadmium |

| Shell Size | Layout | Part Number | A<br>±0,41 (.016) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,13 (.005) | F<br>±0,13 (.005) | G<br>±0,41 (.016) | H<br>±0,41 (.016) | J<br>±0,41 (.016) | K<br>±0,41 (.016) |
|------------|--------|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 9      | DE111920    | 49,61 (1.953)     | 40,08 (1.578)     | 25,00 (.986)      | 18,65 (.734)      | 15,27 (.601)      | 9,52 (.375)       | 25,40 (1.000)     | 30,58 (1.204)     | 12,29 (.484)      | 6,15 (.242)       |
| DA         | 15     | DA22214     | 57,96 (2.282)     | 48,41 (1.906)     | 33,32 (1.312)     | 22,81 (.898)      | 19,43 (.765)      | 9,52 (.375)       | 25,40 (1.000)     | 38,91 (1.532)     | 12,29 (.484)      | 6,15 (.242)       |
| DB         | 25     | DB22254     | 71,63 (2.820)     | 62,13 (2.446)     | 47,04 (1.852)     | 29,67 (1.168)     | 26,29 (1.035)     | 9,52 (.375)       | 25,40 (1.000)     | 51,21 (2.016)     | 11,91 (.469)      | 5,94 (.234)       |
| DC         | 37     | DC22071     | 88,11 (3.469)     | 78,59 (3.094)     | 63,50 (2.500)     | 37,90 (1.492)     | 34,52 (1.359)     | 9,52 (.375)       | 25,40 (1.000)     | 67,49 (2.657)     | 11,91 (.469)      | 5,94 (.234)       |
| DD         | 50     | DD21961     | 85,72 (3.375)     | 76,20 (3.000)     | 61,11 (2.406)     | 36,50 (1.437)     | 33,32 (1.312)     | 11,10 (.437)      | 28,58 (1.125)     | 65,10 (2.563)     | 14,30 (.563)      | 7,16 (.282)       |



## Guide Pin Plate

Male



Useful in blind mate applications.  
Kit consists of 1 plate, 2 sems screws,  
2 rivets, 2 guide pins, 2 washers  
Guide pin inserts for Size 8 cavities for  
Combo D® connectors also available. See  
page 95.

|                                 |                                         |
|---------------------------------|-----------------------------------------|
| Plate and<br>Hardware Material: | Steel                                   |
| Plate and<br>Hardware Finish:   | Yellow Chromate over<br>Zinc or Cadmium |
| Guide Pin Material:             | Stainless Steel                         |



| Shell<br>Size | Layout | Part<br>Number | A<br>±0.38 (.015) | B<br>±0.13 (.005) | C<br>±0.25 (.010) | D<br>±0.13 (.005) | E<br>±0.38 (.015) | F<br>±0.25 (.010) | G<br>±0.13 (.005) | H<br>±0.25 (.010) | J<br>±0.38 (.015) | K<br>±0.13 (.005) |
|---------------|--------|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE            | 9      | DE111919       | 49,61 (1.953)     | 40,08 (1.578)     | 33,91 (1.335)     | 18,65 (.734)      | 25,40 (1.000)     | 19,05 (.750)      | 25,00 (.984)      | 12,29 (.484)      | 30,58 (1.204)     | 6,15 (.242)       |
| DA            | 16     | DA22213        | 57,94 (2.281)     | 48,41 (1.906)     | 42,24 (1.663)     | 22,81 (.898)      | 25,40 (1.000)     | 19,05 (.750)      | 33,32 (1.312)     | 12,29 (.484)      | 38,89 (1.531)     | 6,15 (.242)       |
| DB            | 25     | DB22255        | 71,63 (2.820)     | 62,13 (2.446)     | 55,96 (2.203)     | 29,67 (1.168)     | 25,40 (1.000)     | 19,05 (.750)      | 47,04 (1.852)     | 12,29 (.484)      | 51,99 (2.047)     | 6,15 (.242)       |
| DC            | 37     | DC22070        | 88,09 (3.468)     | 78,42 (3.094)     | 72,42 (2.851)     | 37,90 (1.492)     | 25,40 (1.000)     | 19,05 (.750)      | 63,50 (2.500)     | 12,29 (.484)      | 68,25 (2.687)     | 6,15 (.242)       |
| DD            | 50     | DD21962        | 85,72 (3.375)     | 76,20 (3.000)     | 69,82 (2.749)     | 36,50 (1.437)     | 28,58 (1.125)     | 22,20 (.874)      | 61,11 (2.406)     | 15,06 (.593)      | 66,93 (2.635)     | 7,52 (.296)       |



Connector Saver

Connector Saver



Note: Hardware removed for clarity.

| Shell Size | Layout | Part Numbers | A<br>±0,40 (.015) | B<br>±0,25 (.010) | C<br>±0,25 (.010) |
|------------|--------|--------------|-------------------|-------------------|-------------------|
| DE         | 9      | DEBU111515   | 30,81 (1.213)     | 24,99 (.984)      | 16,92 (.666)      |
| DA         | 15     | DABU111512   | 39,14 (1.541)     | 33,32 (1.312)     | 25,25 (.994)      |
| DB         | 25     | DBBU111511   | 53,04 (2.088)     | 47,04 (1.852)     | 38,96 (1.534)     |

Note: DC-37 and DD-50 not available.

Specifications

Temperature: -55° C to 105° C

Current Rating: 7 A

Dielectric Withstanding Voltage: 500 VAC at Sea Level

Materials and Finishes

| Description      | Material                      | Finish                   |
|------------------|-------------------------------|--------------------------|
| Shells           | Steel                         | Tin/Lead                 |
| Insulator        | Black Thermoplastic, UL 94V-0 | —                        |
| Contacts         | Copper Alloy                  | Gold Over Nickel         |
| Spacer           | Zinc Alloy                    | —                        |
| Locking Hardware | Steel                         | Clear Chromate Over Zinc |

## Gender Changer

Male/Male



Gender Changers modify the mating interface to allow connectors of the same genders to mate.

## Product Features

- Low cost way to correct design errors
- Optional hardware allows design flexibility



Note: Grounding dimples available on male/male only.

| Shell Size | Layout | Part Number Without Hardware | Part Number With Hardware | A<br>±0.38 (.015) | B<br>±0.13 (.005) | C<br>±0.13 (.005) |
|------------|--------|------------------------------|---------------------------|-------------------|-------------------|-------------------|
| DE         | 9      | DE111805-1                   | DE111805-5                | 30.81 (1.213)     | 24.99 (.984)      | 16.92 (.666)      |
| DA         | 15     | DA111806-1                   | DA111806-5                | 39.14 (1.541)     | 33.32 (1.312)     | 25.25 (.994)      |
| DB         | 25     | DB111807-1                   | DB111807-5                | 53.04 (2.088)     | 47.04 (1.852)     | 38.96 (1.534)     |
| DC         | 37     | DC111808-1                   | DC111808-5                | 69.32 (2.729)     | 63.50 (2.500)     | 55.42 (2.182)     |

Note: DD-50 not available in male/male.

Female/Female



Gender Changers modify the mating interface to allow connectors of the same genders to mate.

## Product Features

- Low cost way to correct design errors
- Optional hardware allows design flexibility



| Shell Size | Layout | Part Number Without Hardware | Part Number With Hardware | A<br>±0.38 (.015) | B<br>±0.13 (.005) | C<br>±0.13 (.005) |
|------------|--------|------------------------------|---------------------------|-------------------|-------------------|-------------------|
| DE         | 9      | DE111813                     | DE111813-3                | 30.81 (1.213)     | 24.99 (.984)      | 16.33 (.643)      |
| DA         | 15     | DA111810                     | DA111810-3                | 39.14 (1.541)     | 33.32 (1.312)     | 24.66 (.971)      |
| DB         | 25     | DB111811                     | DB111811-2                | 53.04 (2.088)     | 47.04 (1.852)     | 38.38 (1.511)     |

Note: DC-37 and DD-50 not available for female/female.

## Specifications

Temperature: -55° C to 105° C

Current Rating: 3 A

Dielectric Withstanding Voltage: 500 VAC at Sea Level

## Materials and Finishes

| Description      | Material     | Finish                                        |
|------------------|--------------|-----------------------------------------------|
| Shells           | Steel        | Tin/Lead                                      |
| Insulator        | M/M          | Glass Epoxy                                   |
|                  | F/F          | Black Thermoplastic, UL 94V-0                 |
| Contacts         | Copper Alloy | Gold Over Nickel                              |
| Rivets (M/M)     | Copper Alloy | Tin/Lead                                      |
| Locking Hardware | Steel        | Clear Chromate Over Cadmium or Zinc and Mylar |

## Dust Cap



Dust caps provide protection from moisture and dust for unused I/O ports.

## Product Features

Conductive Dust Caps provide a surface resistivity of at least  $1 \times 10^5$  ohms/sq. Dust Caps meet the static decay test requirements of MIL-B-81705C, Type II. Dust Caps have an integral flange for easy application and removal.

## Materials and Finishes

Material: Black Polyethylene



NOTE: C dim. applies at point of maximum integral interface length.

| Part Number | I.D.   | A             | B            | C             | D            |
|-------------|--------|---------------|--------------|---------------|--------------|
| DE-59-20    | Socket | 20,32 (.800)  | 11,43 (.450) | 16,36 (.644)  | 7,59 (.299)  |
| DA-59-20    | Socket | 28,45 (1.120) | 11,68 (.460) | 24,59 (.968)  | 7,62 (.300)  |
| DB-59-20    | Socket | 42,42 (1.670) | 11,68 (.460) | 38,25 (1.506) | 7,49 (.295)  |
| DC-59-20    | Socket | 58,93 (2.320) | 11,68 (.460) | 54,81 (2.158) | 7,37 (.290)  |
| DD-59-20    | Socket | 56,90 (2.240) | 14,48 (.570) | 53,11 (2.091) | 10,41 (.410) |
| DE-60-20    | Pin    | 21,84 (.860)  | 12,95 (.510) | 17,78 (.700)  | 8,92 (.351)  |
| DA-60-20    | Pin    | 30,48 (1.200) | 12,95 (.510) | 26,52 (1.044) | 9,02 (.355)  |
| DB-60-20    | Pin    | 44,20 (1.740) | 13,46 (.530) | 39,60 (1.559) | 9,09 (.358)  |
| DC-60-20    | Pin    | 60,71 (2.390) | 13,46 (.530) | 56,90 (2.240) | 9,37 (.369)  |
| DD-60-20    | Pin    | 58,17 (2.290) | 16,00 (.630) | 54,28 (2.137) | 12,04 (.474) |

## Interfacial Seal



Interfacial seals provide moisture resistance at the mating interface.

## Product Features

Other Interfacial Seals in the Combo D® layouts are available upon request.

## Materials and Finishes

Material: Silastic Sheet



| Shell Size | Layout | Part Number  | A             | B            |
|------------|--------|--------------|---------------|--------------|
| DE         | 9      | DE53750      | 16,66 (.656)  | 8,41 (.331)  |
| DA         | 15     | DA53750-1    | 24,99 (.984)  | 8,41 (.331)  |
| DB         | 25     | DB53750-2    | 38,88 (1.531) | 8,41 (.331)  |
| DC         | 37     | DC53750-3    | 55,14 (2.171) | 8,41 (.331)  |
| DD         | 50     | DD53750-4    | 52,78 (2.078) | 11,10 (.437) |
| DC         | 21WA4  | 075-0354-003 | 55,14 (2.171) | 8,41 (.331)  |

## Potting Shell



Potting shells are molded with a thin flange 0,76 (.030) to permit the use of D Subminiature locking devices.

Potting shells hold epoxy in place during curing.

## Materials and Finishes

Material: Nylon

Color: Natural (white)

| Shell Size | Layout | Part Number |
|------------|--------|-------------|
| DE         | 9      | DE50904-1   |
| DA         | 15     | DA50905-1   |
| DB         | 25     | DB50906-1   |
| DC         | 37     | DC50907-1   |
| DD         | 50     | DD50908-1   |

# D Subminiature

| Selection Index                                                      | Page |
|----------------------------------------------------------------------|------|
| Reader's Resource                                                    |      |
| Dimensional Reference Data                                           |      |
| Panel Mounting . . . . .                                             | 220  |
| Panel Cutouts . . . . .                                              | 221  |
| Contact Cavity Arrangements                                          |      |
| Combo D® — Plug . . . . .                                            | 222  |
| Combo D® — Receptacle . . . . .                                      | 223  |
| Standard — Plug and Receptacle . . . . .                             | 224  |
| Pushfit/Boardlock — Standard and European . . . . .                  | 225  |
| Alternate Technical Configurations                                   |      |
| 50 Ohm Coaxial Contact — Straight and 90° . . . . .                  | 225  |
| Bracket — Standard and European . . . . .                            | 226  |
| Hardware Views                                                       |      |
| Standard . . . . .                                                   | 226  |
| European . . . . .                                                   | 227  |
| Printed Circuit Board (PCB) Hole Patterns                            |      |
| Combination Layouts                                                  |      |
| Coaxial 90° — Standard                                               |      |
| Plug . . . . .                                                       | 228  |
| Receptacle . . . . .                                                 | 231  |
| Coaxial 90° — European                                               |      |
| Plug . . . . .                                                       | 234  |
| Receptacle . . . . .                                                 | 236  |
| Coaxial Straight — Standard/European                                 |      |
| Plug . . . . .                                                       | 238  |
| Receptacle . . . . .                                                 | 241  |
| High Power 90° — Standard                                            |      |
| Plug . . . . .                                                       | 244  |
| Receptacle . . . . .                                                 | 247  |
| High Power 90° — European                                            |      |
| Plug . . . . .                                                       | 250  |
| Receptacle . . . . .                                                 | 252  |
| High Power/High Voltage Straight — Standard/European                 |      |
| Plug . . . . .                                                       | 254  |
| Receptacle . . . . .                                                 | 257  |
| 90° PC Tails (Size 20 Signal Contacts only) — European               |      |
| Plug . . . . .                                                       | 260  |
| Receptacle . . . . .                                                 | 263  |
| Straight PC Tails (Size 20 Signal Contacts only) — Standard/European |      |
| Plug . . . . .                                                       | 266  |
| Receptacle . . . . .                                                 | 269  |
| Standard Layouts                                                     |      |
| 90° Standard — Plug and Receptacle . . . . .                         | 272  |
| 90° European — Plug and Receptacle . . . . .                         | 273  |
| Straight PC Tails — Plug and Receptacle Standard/European . . . . .  | 274  |
| Lease Tooling . . . . .                                              | 275  |
| Glossary of Terms . . . . .                                          | 276  |
| Obsolete Products/Available Products Not Previously Listed . . . . . | 282  |
| Part Number Index . . . . .                                          | 283  |
| Product Safety and Warranty . . . . .                                | 297  |

Panel Mounting

Figure 1A



Figure 1B



Figure 2



Figure 3



| Figure Number | Combination of Mated Connectors |                      |                     |                   |                   |                   |                   |                   |
|---------------|---------------------------------|----------------------|---------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|               | Size                            | Pin (See Note Below) | Socket              | A<br>+0,76 (.030) | B<br>+0,76 (.030) | C<br>+0,76 (.030) | F<br>±0,25 (.010) | H<br>+0,76 (.030) |
| 1A, 1B        | A, E                            | Standard             | Standard            | 6,35 (.250)       | 8,63 (.340)       | 7,49 (.295)       | —                 | 7,49 (.295)       |
| 1A, 1B        | B, C, D                         | Standard             | Standard            | 6,04 (.238)       | 8,71 (.343)       | 7,56 (.298)       | —                 | 7,18 (.283)       |
| 2             | A, E                            | Standard             | Float Mount         | 5,53 (.218)       | —                 | 6,68 (.263)       | 3,04 (.120)       | —                 |
| 2             | B, C, D                         | Standard             | Float Mount         | 5,23 (.206)       | —                 | 6,75 (.266)       | 3,04 (.120)       | —                 |
| 2             | A, E                            | Float Mount          | Standard            | 5,53 (.218)       | —                 | 6,68 (.263)       | 3,04 (.120)       | —                 |
| 2             | B, C, D                         | Float Mount          | Standard            | 5,23 (.206)       | —                 | 6,37 (.251)       | 3,30 (.130)       | —                 |
| 3             | A, E                            | Standard             | Reverse Float Mount | —                 | 9,09 (.358)       | 7,95 (.313)       | 3,04 (.120)       | —                 |
| 3             | B, C, D                         | Standard             | Reverse Float Mount | —                 | 9,16 (.361)       | 7,64 (.301)       | 3,04 (.120)       | —                 |
| 3             | A, E                            | Reverse Float Mount  | Standard            | —                 | 9,09 (.358)       | 7,95 (.313)       | 3,04 (.120)       | —                 |
| 3             | B, C, D                         | Reverse Float Mount  | Standard            | —                 | 9,01 (.355)       | 7,87 (.310)       | 3,30 (.130)       | —                 |

- Notes:
1. A, B, C and H are dimensions between panels and represent the recommended limit to be used in the design of the connector mounting method.
  2. It is recommended that only one assembly, either pin or socket, be float mounted.
  3. Standard pin assemblies contained 0,38 (.015) thick front shells on E and A sizes; 0,61 (.024) thick front shells on B, C, and D sizes.
  4. Standard connectors accommodate a #4 screw. Float mount connectors accommodate a #2 screw.

Panel Cutouts

Standard Cutout



Rear Mounting Cutout (Optional)



Front Panel Mounting



Standard Shell



Dual Float Mount Shell

Rear Panel Mounting



Standard Shell



Dual Float Mount Shell

Standard Shell

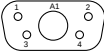
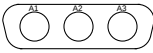
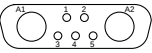
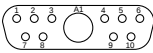
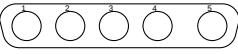
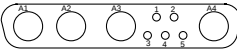
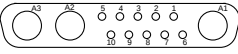
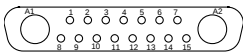
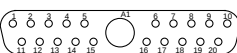
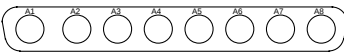
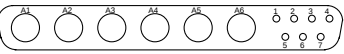
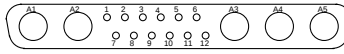
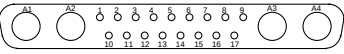
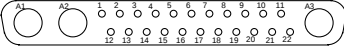
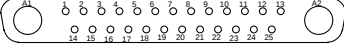
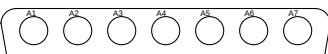
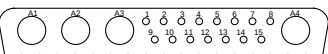
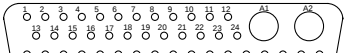
| Shell Size | Mounting Method | A<br>±0,13 (.005) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,13 (.005) | F<br>±0,13 (.005) | G<br>±0,05 (.002) | H<br>±0,05 (.002) | J<br>±0,05 (.002) |
|------------|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | Front           | 22,19 (.874)      | 11,09 (.437)      | 24,99 (.984)      | 12,49 (.492)      | 13,03 (.513)      | 6,52 (.257)       | 3,04 (.120)       | 1,52 (.060)       | 2,10 (.083)       |
|            | Rear            | 20,47 (.806)      | 10,23 (.403)      | 24,99 (.984)      | 12,49 (.492)      | 11,40 (.449)      | 5,71 (.225)       | 3,04 (.120)       | 1,52 (.060)       | 3,35 (.132)       |
| DA         | Front           | 30,53 (1.202)     | 15,26 (.601)      | 33,32 (1.312)     | 16,66 (.656)      | 13,03 (.513)      | 6,52 (.257)       | 3,04 (.120)       | 1,52 (.060)       | 2,10 (.083)       |
|            | Rear            | 28,80 (1.134)     | 14,40 (.567)      | 33,32 (1.312)     | 16,66 (.656)      | 11,40 (.449)      | 5,71 (.225)       | 3,04 (.120)       | 1,52 (.060)       | 3,35 (.132)       |
| DB         | Front           | 44,27 (1.743)     | 22,14 (.872)      | 47,04 (1.852)     | 23,52 (.926)      | 13,03 (.513)      | 6,52 (.257)       | 3,04 (.120)       | 1,52 (.060)       | 2,10 (.083)       |
|            | Rear            | 42,51 (1.674)     | 21,25 (.837)      | 47,04 (1.852)     | 23,52 (.926)      | 11,40 (.449)      | 5,71 (.225)       | 3,04 (.120)       | 1,52 (.060)       | 3,35 (.132)       |
| DC         | Front           | 60,73 (2.391)     | 30,37 (1.196)     | 63,50 (2.500)     | 31,75 (1.250)     | 13,03 (.513)      | 6,52 (.257)       | 3,04 (.120)       | 1,52 (.060)       | 2,10 (.083)       |
|            | Rear            | 59,08 (2.326)     | 29,54 (1.163)     | 63,50 (2.500)     | 31,75 (1.250)     | 11,40 (.449)      | 5,71 (.225)       | 3,04 (.120)       | 1,52 (.060)       | 3,35 (.132)       |
| DD         | Front           | 58,34 (2.297)     | 29,18 (1.149)     | 61,11 (2.406)     | 30,55 (1.203)     | 15,82 (.623)      | 7,92 (.312)       | 3,04 (.120)       | 1,52 (.060)       | 2,10 (.083)       |
|            | Rear            | 56,33 (2.218)     | 28,16 (1.109)     | 61,11 (2.406)     | 30,55 (1.203)     | 14,09 (.555)      | 7,06 (.278)       | 3,04 (.120)       | 1,52 (.060)       | 3,35 (.132)       |

Dual Float Mount Shell

| Shell Size | Mounting Method | A<br>±0,13 (.005) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,13 (.005) | F<br>±0,13 (.005) | G<br>±0,05 (.002) | H<br>±0,05 (.002) | J<br>±0,05 (.002) |
|------------|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | Front           | 23,01 (.906)      | 11,50 (.453)      | 24,99 (.984)      | 12,49 (.492)      | 13,84 (.545)      | 6,93 (.273)       | 2,23 (.088)       | 1,11 (.044)       | 2,10 (.083)       |
|            | Rear            | 21,28 (.838)      | 10,64 (.419)      | 24,99 (.984)      | 12,49 (.492)      | 12,21 (.481)      | 6,12 (.241)       | 2,23 (.088)       | 1,11 (.044)       | 3,35 (.132)       |
| DA         | Front           | 31,34 (1.234)     | 15,67 (.617)      | 33,32 (1.312)     | 16,66 (.656)      | 13,84 (.545)      | 6,93 (.273)       | 2,23 (.088)       | 1,11 (.044)       | 2,10 (.083)       |
|            | Rear            | 29,61 (1.166)     | 14,80 (.583)      | 33,32 (1.312)     | 16,66 (.656)      | 12,21 (.481)      | 6,12 (.241)       | 2,23 (.088)       | 1,11 (.044)       | 3,35 (.132)       |
| DB         | Front           | 45,08 (1.775)     | 22,55 (.888)      | 47,04 (1.852)     | 23,52 (.926)      | 13,84 (.545)      | 6,93 (.273)       | 2,23 (.088)       | 1,11 (.044)       | 2,10 (.083)       |
|            | Rear            | 43,33 (1.706)     | 21,66 (.853)      | 47,04 (1.852)     | 23,52 (.926)      | 12,21 (.481)      | 6,12 (.241)       | 2,23 (.088)       | 1,11 (.044)       | 3,35 (.132)       |
| DC         | Front           | 61,54 (2.423)     | 30,78 (1.212)     | 63,50 (2.500)     | 31,75 (1.250)     | 13,84 (.545)      | 6,93 (.273)       | 2,23 (.088)       | 1,11 (.044)       | 2,10 (.083)       |
|            | Rear            | 59,79 (2.354)     | 29,89 (1.177)     | 63,50 (2.500)     | 31,75 (1.250)     | 12,21 (.481)      | 6,12 (.241)       | 2,23 (.088)       | 1,11 (.044)       | 3,35 (.132)       |
| DD         | Front           | 59,15 (2.329)     |                   |                   |                   |                   |                   |                   |                   |                   |

Plug Contact Cavity Arrangements — Combo D®

Face View Pin Insert

|                                                                                        |                                                                                                                     |                                                                                                                     |                                                                                                                      |                                                                                                                  |                                                                                                                    |
|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Shell Size<br>Contact Arrangement<br>No. of Size 20 Cavities<br>No. of Size 8 Cavities | <br>E<br>5W1<br>4 #20<br>1 #8      | <br>A<br>3W3<br>0 #20<br>3 #8      | <br>A<br>3WK3<br>0<br>3             | <br>A<br>7W2<br>5 #20<br>2 #8 | <br>A<br>11W1<br>10 #20<br>1 #8 |
| Shell Size<br>Contact Arrangement<br>No. of Size 20 Cavities<br>No. of Size 8 Cavities | <br>B<br>5W5<br>0 #20<br>5 #8      | <br>B<br>9W4<br>5 #20<br>4 #8      | <br>B<br>13W3<br>10 #20<br>3 #8   |                                                                                                                  |                                                                                                                    |
| Shell Size<br>Contact Arrangement<br>No. of Size 20 Cavities<br>No. of Size 8 Cavities | <br>B<br>17W2<br>15 #20<br>2 #8    | <br>B<br>21W1<br>20 #20<br>1 #8    |                                                                                                                      |                                                                                                                  |                                                                                                                    |
| Shell Size<br>Contact Arrangement<br>No. of Size 20 Cavities<br>No. of Size 8 Cavities | <br>C<br>8W8<br>0 #20<br>8 #8      | <br>C<br>13W6<br>7 #20<br>6 #8    | <br>C<br>17W5<br>12 #20<br>5 #8   |                                                                                                                  |                                                                                                                    |
| Shell Size<br>Contact Arrangement<br>No. of Size 20 Cavities<br>No. of Size 8 Cavities | <br>C<br>21WA4<br>17 #20<br>4 #8 | <br>C<br>25W3<br>22 #20<br>3 #8 | <br>C<br>27W2<br>25 #20<br>2 #8 |                                                                                                                  |                                                                                                                    |
| Shell Size<br>Contact Arrangement<br>No. of Size 20 Cavities<br>No. of Size 8 Cavities | <br>D<br>24W7<br>17 #20<br>7 #8  | <br>D<br>36W4<br>32 #20<br>4 #8 |                                                                                                                      |                                                                                                                  |                                                                                                                    |
| Shell Size<br>Contact Arrangement<br>No. of Size 20 Cavities<br>No. of Size 8 Cavities | <br>D<br>43W2<br>41 #20<br>2 #8  | <br>D<br>47W1<br>46 #20<br>1 #8 |                                                                                                                      |                                                                                                                  |                                                                                                                    |

Note: Size 8 Cavities will Accommodate Removable Coaxial, High Power and/or High Voltage Contacts.

## Receptacle Contact Cavity Arrangements — Combo D®

## Face View Socket Insert

|                         |                                                                                     |                                                                                      |                                                                                       |                                                                                     |                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                         |    |     |      |  |  |
| Shell Size              | E                                                                                   | A                                                                                    | A                                                                                     | A                                                                                   | A                                                                                   |
| Contact Arrangement     | 5W1                                                                                 | 3W3                                                                                  | 3WK3                                                                                  | 7W2                                                                                 | 11W1                                                                                |
| No. of Size 20 Cavities | 4 #20                                                                               | 0 #20                                                                                | 0                                                                                     | 5 #20                                                                               | 10 #20                                                                              |
| No. of Size 8 Cavities  | 1 #8                                                                                | 3 #8                                                                                 | 3                                                                                     | 2 #8                                                                                | 1 #8                                                                                |
|                         |    |     |    |                                                                                     |                                                                                     |
| Shell Size              | B                                                                                   | B                                                                                    | B                                                                                     |                                                                                     |                                                                                     |
| Contact Arrangement     | 5W5                                                                                 | 9W4                                                                                  | 13W3                                                                                  |                                                                                     |                                                                                     |
| No. of Size 20 Cavities | 0 #20                                                                               | 5 #20                                                                                | 10 #20                                                                                |                                                                                     |                                                                                     |
| No. of Size 8 Cavities  | 5 #8                                                                                | 4 #8                                                                                 | 3 #8                                                                                  |                                                                                     |                                                                                     |
|                         |    |     |                                                                                       |                                                                                     |                                                                                     |
| Shell Size              | B                                                                                   | B                                                                                    |                                                                                       |                                                                                     |                                                                                     |
| Contact Arrangement     | 17W2                                                                                | 21W1                                                                                 |                                                                                       |                                                                                     |                                                                                     |
| No. of Size 20 Cavities | 15 #20                                                                              | 20 #20                                                                               |                                                                                       |                                                                                     |                                                                                     |
| No. of Size 8 Cavities  | 2 #8                                                                                | 1 #8                                                                                 |                                                                                       |                                                                                     |                                                                                     |
|                         |   |   |   |                                                                                     |                                                                                     |
| Shell Size              | C                                                                                   | C                                                                                    | C                                                                                     |                                                                                     |                                                                                     |
| Contact Arrangement     | 8W8                                                                                 | 13W6                                                                                 | 17W5                                                                                  |                                                                                     |                                                                                     |
| No. of Size 20 Cavities | 0 #20                                                                               | 7 #20                                                                                | 12 #20                                                                                |                                                                                     |                                                                                     |
| No. of Size 8 Cavities  | 8 #8                                                                                | 6 #8                                                                                 | 5 #8                                                                                  |                                                                                     |                                                                                     |
|                         |  |  |  |                                                                                     |                                                                                     |
| Shell Size              | C                                                                                   | C                                                                                    | C                                                                                     |                                                                                     |                                                                                     |
| Contact Arrangement     | 21WA4                                                                               | 25W3                                                                                 | 27W2                                                                                  |                                                                                     |                                                                                     |
| No. of Size 20 Cavities | 17 #20                                                                              | 22 #20                                                                               | 25 #20                                                                                |                                                                                     |                                                                                     |
| No. of Size 8 Cavities  | 4 #8                                                                                | 3 #8                                                                                 | 2 #8                                                                                  |                                                                                     |                                                                                     |
|                         |  |  |                                                                                       |                                                                                     |                                                                                     |
| Shell Size              | D                                                                                   | D                                                                                    |                                                                                       |                                                                                     |                                                                                     |
| Contact Arrangement     | 24W7                                                                                | 36W4                                                                                 |                                                                                       |                                                                                     |                                                                                     |
| No. of Size 20 Cavities | 17 #20                                                                              | 32 #20                                                                               |                                                                                       |                                                                                     |                                                                                     |
| No. of Size 8 Cavities  | 7 #8                                                                                | 4 #8                                                                                 |                                                                                       |                                                                                     |                                                                                     |
|                         |  |  |                                                                                       |                                                                                     |                                                                                     |
| Shell Size              | D                                                                                   | D                                                                                    |                                                                                       |                                                                                     |                                                                                     |
| Contact Arrangement     | 43W2                                                                                | 47W1                                                                                 |                                                                                       |                                                                                     |                                                                                     |
| No. of Size 20 Cavities | 41 #20                                                                              | 46 #20                                                                               |                                                                                       |                                                                                     |                                                                                     |
| No. of Size 8 Cavities  | 2 #8                                                                                | 1 #8                                                                                 |                                                                                       |                                                                                     |                                                                                     |

Note: Size 8 Cavities will Accommodate Removable Coaxial, High Power and/or High Voltage Contacts.

Plug Contact Cavity Arrangements

Face View Pin Insert



Receptacle Contact Cavity Arrangements

Face View Socket Insert



Pushfit/Boardlock — Standard

Straight (Z)

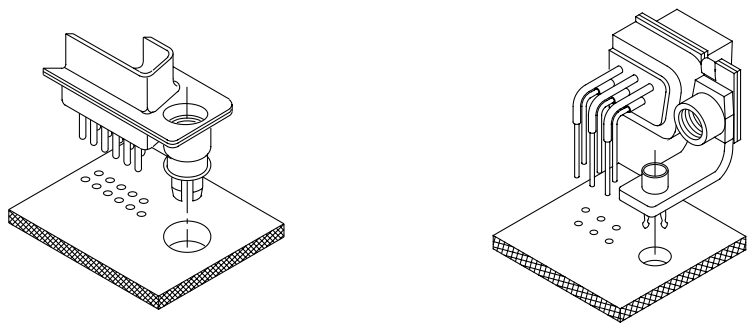
90° (C)



Pushfit/Boardlock — European

Straight (-146)

90° (-146)



Alternate 50 Ohm Coaxial Configuration

Straight (X)

90° (X)



Hardware Views (Standard)

Through Hole (Eyelet)



Tab Shells (K)



Clinch Nut (E)



Dimensions — Plug

| Shell Size | $\pm 0,317 (.0125)$ | $\pm 0,25 (.010)$ |
|------------|---------------------|-------------------|
| DE         | 1,206 (.0475)       | —                 |
| DA         | 1,206 (.0475)       | —                 |
| DB         | —                   | 1,52 (.060)       |
| DC         | —                   | 1,52 (.060)       |
| DD         | —                   | 1,52 (.060)       |

Dual Float Mount (Y)



Dimensions — Receptacle

| Shell Size | $\pm 0,318 (.0125)$ |
|------------|---------------------|
| DE         | 1,206 (.0475)       |
| DA         | 1,206 (.0475)       |
| DB         | 1,206 (.0475)       |
| DC         | 1,206 (.0475)       |
| DD         | 1,206 (.0475)       |

Alternate Bracket Configuration

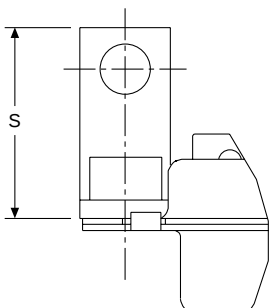
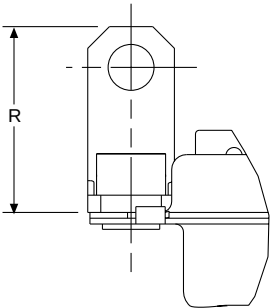
Supplied with connectors without boardlocks.

Standard Footprint (P)

European Footprint (P)

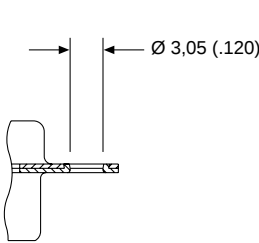
Dimensions

| Shell Size     | $\pm 0,25 (.010)$ | $\pm 0,25 (.010)$ |
|----------------|-------------------|-------------------|
| DE, DA, DB, DC | 11,61 (.457)      | 12,78 (.503)      |
| DD             | 12,78 (.503)      | 13,95 (.549)      |

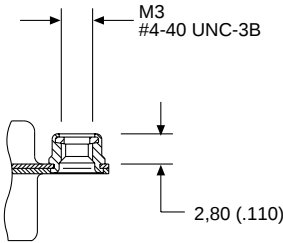


Hardware Views (European)

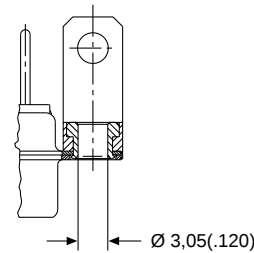
Through Hole



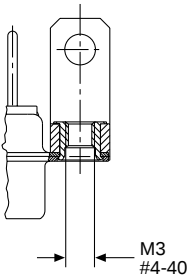
Clinch Nut (X/E)



Plastic Bracket with Bushing (1A5N)



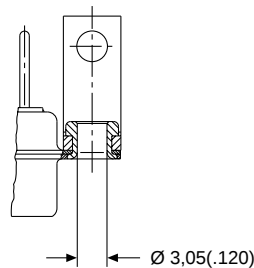
Plastic Bracket with Captive Nut (1ATN/1AVN)



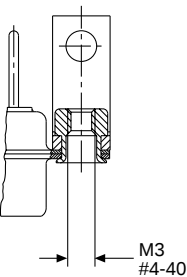
Plastic Bracket with Post (1APN/1A6N)



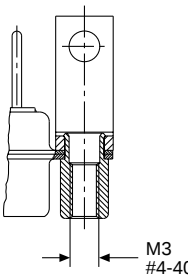
Metal Bracket with Bushing (1AFN)



Metal Bracket with Captive Nut (1A9N/1A7N)



Metal Bracket with Post (1AHN/1A8N)



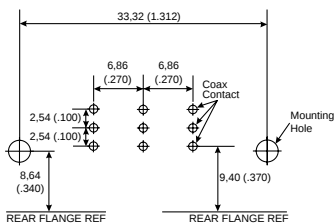
# PCB Hole Pattern — Standard

# Coaxial 90° — Plug

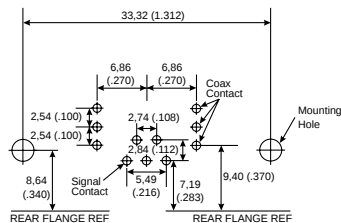


Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

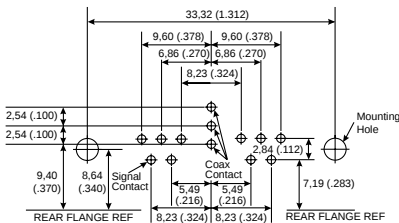
E  
5W1  
4 #20  
1 #8



A  
3W3  
0 #20  
3 #8

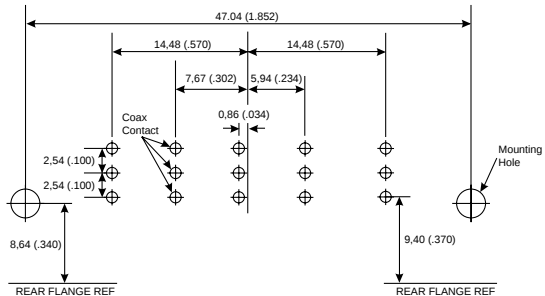


A  
7W2  
5 #20  
2 #8

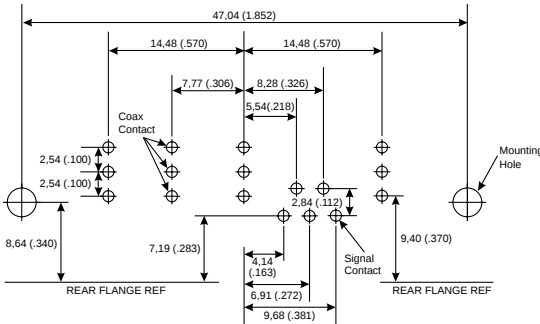


Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

A  
11W1  
10 #20  
1 #8

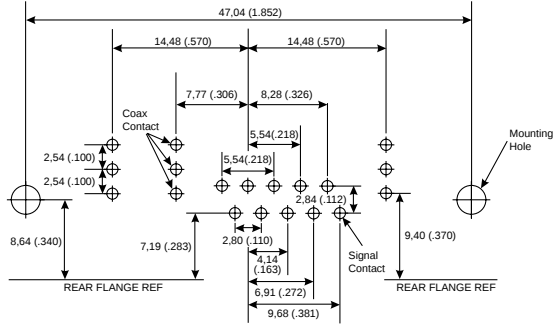


B  
5W5  
0 #20  
5 #8

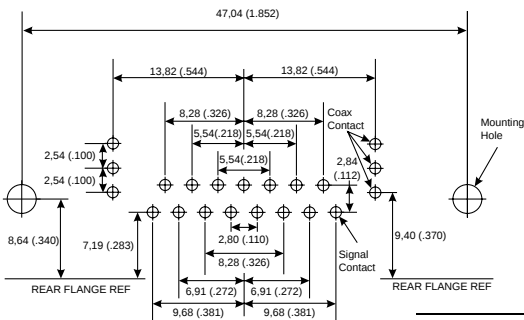


Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

B  
9W4  
5 #20  
4 #8

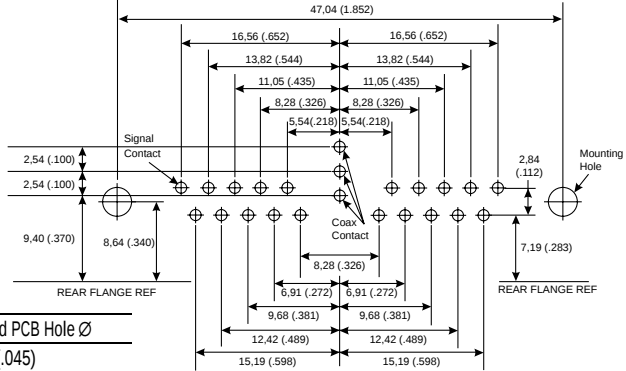


B  
13W3  
10 #20  
3 #8



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

B  
17W2  
15 #20  
2 #8

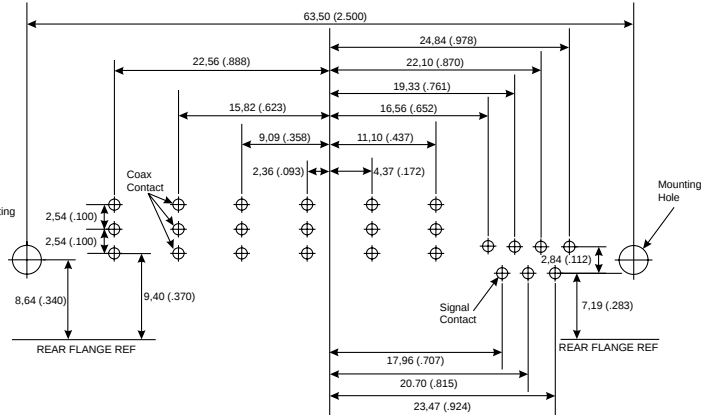


B  
21W1  
20 #20  
1 #8

| Signal Contact Ø    | Recommended PCB Hole Ø |
|---------------------|------------------------|
| 0.76 (.030)         | 1.14 (.045)            |
| Mounting Type       | Recommended PCB Hole Ø |
| Without Boardlock   | 3.05 (.120)            |
| With Boardlock      | 3.10 (.122)            |
| Size 8 Contact Type | Recommended PCB Hole Ø |
| Coaxial (C or X)    | 1.14 (.045)            |

# PCB Hole Pattern — Standard

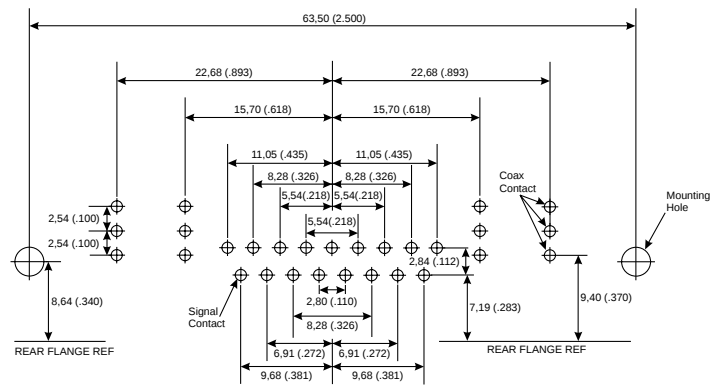
# Coaxial 90° — Plug



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

C  
8W8  
0 #20  
8 #8

C  
13W6  
7 #20  
6 #8



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

C  
17W5  
12 #20  
5 #8

C  
21WA4  
17 #20  
4 #8



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

C  
25W3  
22 #20  
3 #8

C  
27W2  
25 #20  
2 #8

|                     |                        |
|---------------------|------------------------|
| Signal Contact Ø    | Recommended PCB Hole Ø |
| 0.76 (.030)         | 1.14 (.045)            |
| Mounting Type       | Recommended PCB Hole Ø |
| Without Boardlock   | 3.05 (.120)            |
| With Boardlock      | 3.10 (.122)            |
| Size 8 Contact Type | Recommended PCB Hole Ø |
| Coaxial (C or X)    | 1.14 (.045)            |

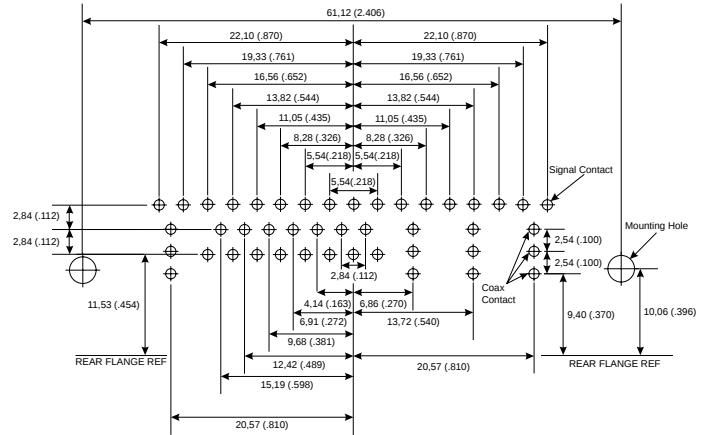
# PCB Hole Pattern — Standard

# Coaxial 90° — Plug



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

D  
24W7  
17 #20  
7 #8



D  
36W4  
32 #20  
4 #8



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

D  
43W2  
41 #20  
2 #20



D  
47W1  
46 #20  
1 #20

|                     |                        |
|---------------------|------------------------|
| Signal Contact Ø    | Recommended PCB Hole Ø |
| 0,76 (.030)         | 1,14 (.045)            |
| Mounting Type       | Recommended PCB Hole Ø |
| Without Boardlock   | 3,05 (.120)            |
| With Boardlock      | 3,10 (.122)            |
| Size 8 Contact Type | Recommended PCB Hole Ø |
| Coaxial (C or X)    | 1,14 (.045)            |

**ITT Cannon**

Dimensions are shown in mm (inch)  
Dimensions subject to change

# PCB Hole Pattern — Standard

# Coaxial 90° — Receptacle



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

**E**  
**5W1**  
**4 #20**  
**1 #8**



**A**  
**3W3**  
**0 #20**  
**3 #8**

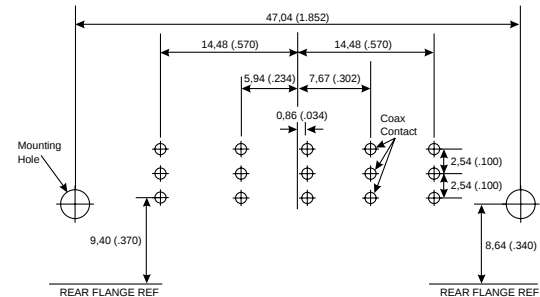


**A**  
**7W2**  
**5 #20**  
**2 #8**



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

**A**  
**11W1**  
**10 #20**  
**1 #8**

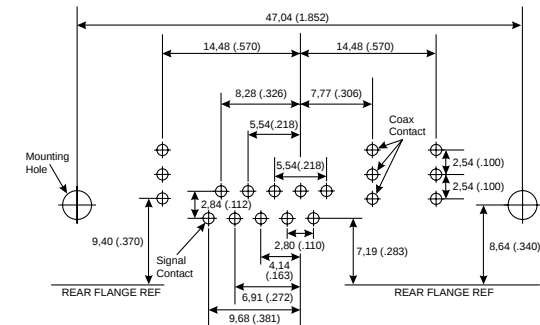


**B**  
**5W5**  
**0 #20**  
**5 #8**



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

**B**  
**9W4**  
**5 #20**  
**4 #8**



**B**  
**13W3**  
**10 #20**  
**3 #8**



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

**B**  
**17W2**  
**15 #20**  
**2 #8**



**B**  
**21W1**  
**20 #20**  
**1 #8**

| Signal Contact Ø    | Recommended PCB Hole Ø |
|---------------------|------------------------|
| 0.76 (.030)         | 1.14 (.045)            |
| Mounting Type       | Recommended PCB Hole Ø |
| Without Boardlock   | 3.05 (.120)            |
| With Boardlock      | 3.10 (.122)            |
| Size 8 Contact Type | Recommended PCB Hole Ø |
| Coaxial (C or X)    | 1.14 (.045)            |

# PCB Hole Pattern — Standard

# Coaxial 90° — Receptacle



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

C  
8W8  
0 #20  
8 #8



C  
13W6  
7 #20  
6 #8



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

C  
17W5  
12 #20  
5 #8



C  
21WA4  
17 #20  
4 #8



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

C  
25W3  
22 #20  
3 #8



C  
27W2  
25 #20  
2 #8

| Signal Contact Ø    | Recommended PCB Hole Ø |
|---------------------|------------------------|
| 0,76 (.030)         | 1,14 (.045)            |
| Mounting Type       | Recommended PCB Hole Ø |
| Without Boardlock   | 3,05 (.120)            |
| With Boardlock      | 3,10 (.122)            |
| Size 8 Contact Type | Recommended PCB Hole Ø |
| Coaxial (C or X)    | 1,14 (.045)            |

PCB Hole Pattern — Standard

Coaxial 90° — Receptacle



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

D  
24W7  
17 #20  
7 #8



D  
36W4  
32 #20  
4 #8



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

D  
43W2  
41 #20  
2 #8

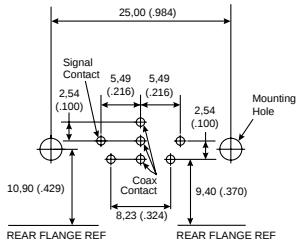


D  
47W1  
46 #20  
1 #8

|                     |                        |
|---------------------|------------------------|
| Signal Contact Ø    | Recommended PCB Hole Ø |
| 0,76 (.030)         | 1,14 (.045)            |
| Mounting Type       | Recommended PCB Hole Ø |
| Without Boardlock   | 3,05 (.120)            |
| With Boardlock      | 3,10 (.122)            |
| Size 8 Contact Type | Recommended PCB Hole Ø |
| Coaxial (C or X)    | 1,14 (.045)            |

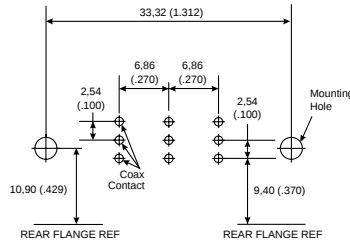
# PCB Hole Pattern — European

# Coaxial 90° — Plug

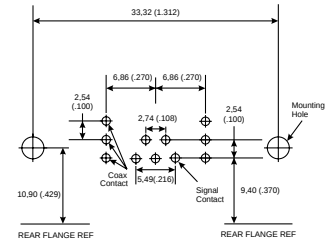


Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

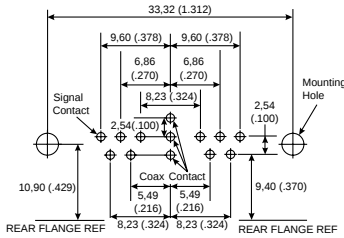
**E**  
**5W1**  
**4 #20**  
**1 #8**



**A**  
**3W3**  
**0 #20**  
**3 #8**



**A**  
**7W2**  
**5 #20**  
**2 #8**

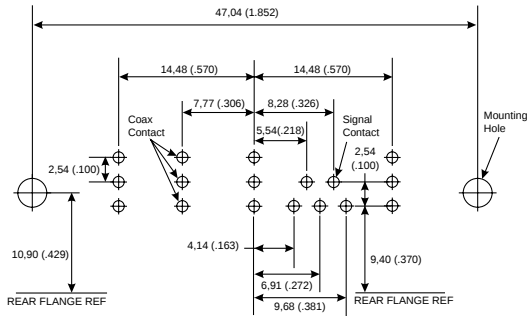


Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

**A**  
**11W1**  
**10 #20**  
**1 #8**

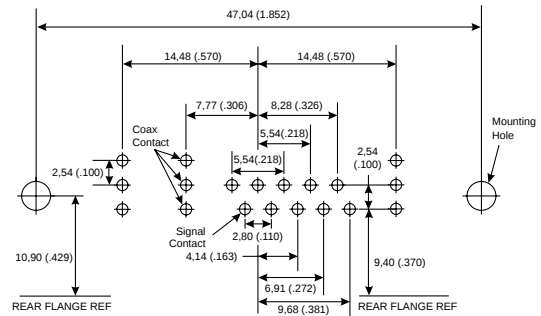


**B**  
**5W5**  
**0 #20**  
**5 #8**

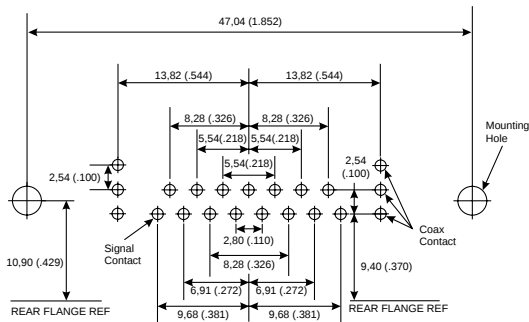


Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

**B**  
**9W4**  
**5 #20**  
**4 #8**

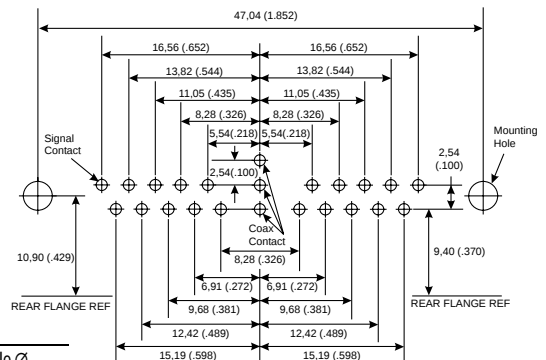


**B**  
**13W3**  
**10 #20**  
**3 #8**



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

**B**  
**17W2**  
**15 #20**  
**2 #8**



**B**  
**21W1**  
**20 #20**  
**1 #8**

| Signal Contact Ø    | Recommended PCB Hole Ø |
|---------------------|------------------------|
| 0,60 (.024)         | 1,00 (.039)            |
| Mounting Type       | Recommended PCB Hole Ø |
| Without Boardlock   | 3,05 (.120)            |
| With Boardlock      | 3,10 (.122)            |
| Size 8 Contact Type | Recommended PCB Hole Ø |
| Coaxial (C or X)    | 1,14 (.045)            |

# PCB Hole Pattern — European

# Coaxial 90° — Plug



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

C  
8W8  
0 #20  
8 #8



C  
13W6  
7 #20  
6 #8



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

C  
17W5  
12 #20  
5 #8



C  
21WA4  
17 #20  
4 #8



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

C  
25W3  
22 #20  
3 #8

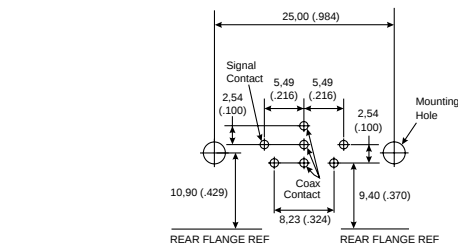


C  
27W2  
25 #20  
2 #8

|                     |                        |
|---------------------|------------------------|
| Signal Contact Ø    | Recommended PCB Hole Ø |
| 0,60 (.024)         | 1,00 (.039)            |
| Mounting Type       | Recommended PCB Hole Ø |
| Without Boardlock   | 3,05 (.120)            |
| With Boardlock      | 3,10 (.122)            |
| Size 8 Contact Type | Recommended PCB Hole Ø |
| Coaxial (C or X)    | 1,14 (.045)            |

# PCB Hole Pattern — European

# Coaxial 90° — Receptacle



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

**E**  
**5W1**  
**4 #20**  
**1 #8**



**A**  
**3W3**  
**0 #20**  
**3 #8**



**A**  
**7W2**  
**5 #20**  
**2 #8**



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

**A**  
**11W1**  
**10 #20**  
**1 #8**



**B**  
**5W5**  
**0 #20**  
**5 #8**



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

**B**  
**9W4**  
**5 #20**  
**4 #8**



**B**  
**13W3**  
**10 #20**  
**3 #8**



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

**B**  
**17W2**  
**15 #20**  
**2 #8**



**B**  
**21W1**  
**20 #20**  
**1 #8**

|                     |                        |
|---------------------|------------------------|
| Signal Contact Ø    | Recommended PCB Hole Ø |
| 0,60 (.024)         | 1,00 (.039)            |
| Mounting Type       | Recommended PCB Hole Ø |
| Without Boardlock   | 3,05 (.120)            |
| With Boardlock      | 3,10 (.122)            |
| Size 8 Contact Type | Recommended PCB Hole Ø |
| Coaxial (C or X)    | 1,14 (.045)            |

# PCB Hole Pattern — European

# Coaxial 90° — Receptacle



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

C  
8W8  
0 #20  
8 #8



C  
13W6  
7 #20  
6 #8



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

C  
17W5  
12 #20  
5 #8



C  
21WA4  
17 #20  
4 #8



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

C  
25W3  
22 #20  
3 #8



C  
27W2  
25 #20  
2 #8

|                     |                        |
|---------------------|------------------------|
| Signal Contact Ø    | Recommended PCB Hole Ø |
| 0,60 (.024)         | 1,00 (.039)            |
| Mounting Type       | Recommended PCB Hole Ø |
| Without Boardlock   | 3,05 (.120)            |
| With Boardlock      | 3,10 (.122)            |
| Size 8 Contact Type | Recommended PCB Hole Ø |
| Coaxial (C or X)    | 1,14 (.045)            |

**ITT Cannon**

Dimensions are shown in mm (inch)  
Dimensions subject to change

# PCB Hole Pattern — Standard/European

# Coaxial Straight — Plug



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

E  
5W1  
4 #20  
1 #8



A  
3W3  
0 #20  
3 #8



A  
7W2  
5 #20  
2 #8



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

A  
11W1  
10 #20  
1 #8



B  
5W5  
0 #20  
5 #8



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

B  
9W4  
5 #20  
4 #8



B  
13W3  
10 #20  
3 #8



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

B  
17W2  
15 #20  
2 #8



B  
21W1  
20 #20  
1 #8

| Signal Contact Ø    | Recommended PCB Hole Ø |
|---------------------|------------------------|
| 0,60 (.024)         | 1,00 (.039)            |
| 0,76 (.030)         | 1,14 (.045)            |
| Mounting Type       | Recommended PCB Hole Ø |
| Without Boardlock   | 3,05 (.120)            |
| With Boardlock      | 3,10 (.122)            |
| Size 8 Contact Type | Recommended PCB Hole Ø |
| Coaxial (C or X)    | 1,14 (.045)            |

# PCB Hole Pattern — Standard/European

# Coaxial Straight — Plug



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

C  
8W8  
0 #20  
8 #8



C  
13W6  
7 #20  
6 #8



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

C  
17W5  
12 #20  
5 #8



C  
21WA4  
17 #20  
4 #8



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

C  
25W3  
22 #20  
3 #8



C  
27W2  
25 #20  
2 #8

| Signal Contact Ø    | Recommended PCB Hole Ø |
|---------------------|------------------------|
| 0,60 (.024)         | 1,00 (.039)            |
| 0,76 (.030)         | 1,14 (.045)            |
| Mounting Type       | Recommended PCB Hole Ø |
| Without Boardlock   | 3,05 (.120)            |
| With Boardlock      | 3,10 (.122)            |
| Size 8 Contact Type | Recommended PCB Hole Ø |
| Coaxial (C or X)    | 1,14 (.045)            |

ITT Cannon

Dimensions are shown in mm (inch)  
Dimensions subject to change

Reader's Resource

# PCB Hole Pattern — Standard/European

# Coaxial Straight — Plug



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

D  
24W7  
17 #20  
7 #8



D  
36W4  
32 #20  
4 #8



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

D  
43W2  
41 #20  
2 #8



D  
47W1  
46 #20  
1 #8

| Signal Contact Ø    | Recommended PCB Hole Ø |
|---------------------|------------------------|
| 0,60 (.024)         | 1,00 (.039)            |
| 0,76 (.030)         | 1,14 (.045)            |
| Mounting Type       | Recommended PCB Hole Ø |
| Without Boardlock   | 3,05 (.120)            |
| With Boardlock      | 3,10 (.122)            |
| Size 8 Contact Type | Recommended PCB Hole Ø |
| Coaxial (C or X)    | 1,14 (.045)            |

# PCB Hole Pattern — Standard/European

# Coaxial Straight — Receptacle

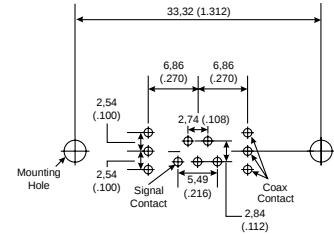


Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

E  
5W1  
4 #20  
1 #8



A  
3W3  
0 #20  
3 #8

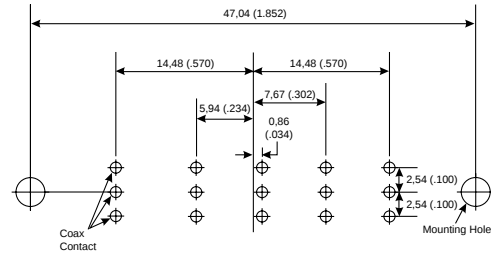


A  
7W2  
5 #20  
2 #8



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

A  
11W1  
10 #20  
1 #8

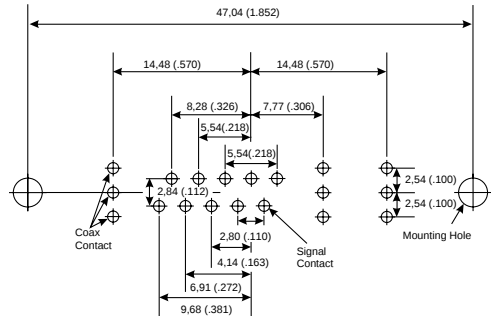


B  
5W5  
0 #20  
5 #8



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

B  
9W4  
5 #20  
4 #8



B  
13W3  
10 #20  
3 #8



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

B  
17W2  
15 #20  
2 #8



B  
21W1  
20 #20  
1 #8

| Signal Contact Ø    | Recommended PCB Hole Ø |
|---------------------|------------------------|
| 0,60 (.024)         | 1,00 (.039)            |
| 0,76 (.030)         | 1,14 (.045)            |
| Mounting Type       | Recommended PCB Hole Ø |
| Without Boardlock   | 3,05 (.120)            |
| With Boardlock      | 3,10 (.122)            |
| Size 8 Contact Type | Recommended PCB Hole Ø |
| Coaxial (C or X)    | 1,14 (.045)            |

Reader's Resource

## PCB Hole Pattern — Standard/European

## Coaxial Straight — Receptacle



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

C  
8W8  
7 #20  
6 #8



C  
13W6  
7 #20  
6 #8



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

C  
17W5  
12 #20  
5 #8



C  
21WA4  
17 #20  
4 #8



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

C  
25W3  
22 #20  
3 #8



C  
27W2  
25 #20  
2 #8

| Signal Contact Ø    | Recommended PCB Hole Ø |
|---------------------|------------------------|
| 0.60 (.024)         | 1.00 (.039)            |
| 0.76 (.030)         | 1.14 (.045)            |
| Mounting Type       | Recommended PCB Hole Ø |
| Without Boardlock   | 3.05 (.120)            |
| With Boardlock      | 3.10 (.122)            |
| Size 8 Contact Type | Recommended PCB Hole Ø |
| Coaxial (C or X)    | 1.14 (.045)            |

## PCB Hole Pattern — Standard/European

## Coaxial Straight — Receptacle



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

D  
24W7  
17 #20  
7 #8

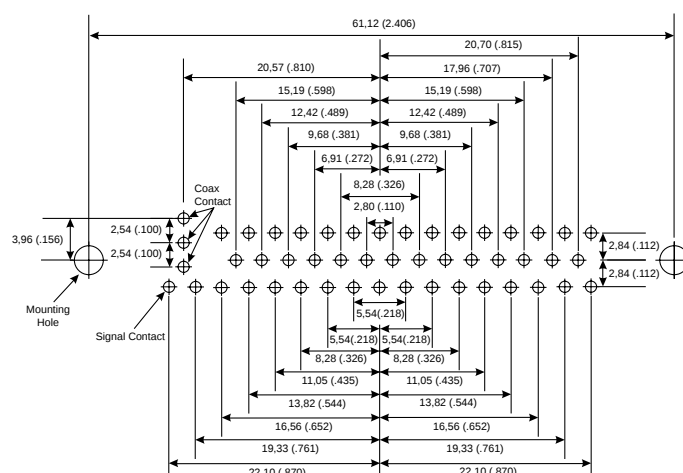


D  
36W4  
32 #20  
4 #8



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

D  
43W2  
41 #20  
2 #8



D  
47W1  
46 #20  
1 #8

| Signal Contact Ø    | Recommended PCB Hole Ø |
|---------------------|------------------------|
| 0,60 (.024)         | 1,00 (.039)            |
| 0,76 (.030)         | 1,14 (.045)            |
| Mounting Type       | Recommended PCB Hole Ø |
| Without Boardlock   | 3,05 (.120)            |
| With Boardlock      | 3,10 (.122)            |
| Size 8 Contact Type | Recommended PCB Hole Ø |
| Coaxial (C or X)    | 1,14 (.045)            |

**ITT Cannon**

Dimensions are shown in mm (inch)  
Dimensions subject to change

## PCB Hole Pattern — Standard

## High Power 90° — Plug



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

**E**  
**5W1**  
4 #20  
1 #8



**A**  
**3W3**  
0 #20  
3 #8



**A**  
**7W2**  
5 #20  
2 #8



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

**A**  
**11W1**  
10 #20  
1 #8



**B**  
**5W5**  
0 #20  
5 #8



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

**B**  
**9W4**  
5 #20  
4 #8



**B**  
**13W3**  
10 #20  
3 #8



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

**B**  
**17W2**  
15 #20  
2 #8



**B**  
**21W1**  
20 #20  
1 #8

PCB Hole Pattern — Standard

High Power 90° — Plug



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

C  
8W8  
0 #20  
8 #8



C  
13W6  
7 #20  
6 #8



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

C  
17W5  
12 #20  
5 #8



C  
21WA4  
17 #20  
4 #8



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

C  
25W3  
22 #20  
3 #8



C  
27W2  
25 #20  
2 #8

|                     |                        |
|---------------------|------------------------|
| Signal Contact Ø    | Recommended PCB Hole Ø |
| 0.76 (.030)         | 1.14 (.045)            |
| Mounting Type       | Recommended PCB Hole Ø |
| Without Boardlock   | 3.05 (.120)            |
| With Boardlock      | 3.10 (.122)            |
| Size 8 Contact Type | Recommended PCB Hole Ø |
| High Power (H)      | 3.56 (.140)            |

# PCB Hole Pattern — Standard

# High Power 90° — Plug



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

D  
24W7  
17 #20  
7 #8



D  
36W4  
32 #20  
4 #8



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

D  
43W2  
41 #20  
2 #8



D  
47W1  
46 #20  
1 #8

| Signal Contact Ø    | Recommended PCB Hole Ø |
|---------------------|------------------------|
| 0,76 (.030)         | 1,14 (.045)            |
| Mounting Type       | Recommended PCB Hole Ø |
| Without Boardlock   | 3,05 (.120)            |
| With Boardlock      | 3,10 (.122)            |
| Size 8 Contact Type | Recommended PCB Hole Ø |
| High Power (H)      | 3,56 (.140)            |

## PCB Hole Pattern — Standard

## High Power 90° — Receptacle

Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities



E  
5W1  
4 #20  
1 #8



A  
3W3  
0 #20  
3 #8



A  
7W2  
5 #20  
2 #8

Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities



A  
11W1  
10 #20  
1 #8



B  
5W5  
0 #20  
5 #8

Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities



B  
9W4  
5 #20  
4 #8



B  
13W3  
10 #20  
3 #8

Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities



B  
17W2  
15 #20  
2 #8



## PCB Hole Pattern — Standard



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

C  
8W8  
0 #20  
8 #8

## High Power 90° — Receptacle



C  
13W6  
7 #20  
6 #8



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

C  
17W5  
12 #20  
5 #8



C  
21WA4  
17 #20  
4 #8



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

C  
25W3  
22 #20  
3 #8



PCB Hole Pattern — Standard



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

D  
24W7  
17 #20  
7 #8

High Power 90° — Receptacle



D  
36W4  
32 #20  
4 #8



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities

D  
43W2  
41 #20  
2 #8



D  
47W1  
46 #20  
1 #8

|                     |                        |
|---------------------|------------------------|
| Signal Contact Ø    | Recommended PCB Hole Ø |
| 0,76 (.030)         | 1,14 (.045)            |
| Mounting Type       | Recommended PCB Hole Ø |
| Without Boardlock   | 3,05 (.120)            |
| With Boardlock      | 3,10 (.122)            |
| Size 8 Contact Type | Recommended PCB Hole Ø |
| High Power (H)      | 3,56 (.140)            |

# PCB Hole Pattern — European

# High Power 90° — Plug

Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities



Shell Size  
Contact Arrangement  
No. of Size 20 Cavities  
No. of Size 8 Cavities



|                     |                        |
|---------------------|------------------------|
| Signal Contact Ø    | Recommended PCB Hole Ø |
| 0,60 (.024)         | 1,00 (.039)            |
| Mounting Type       | Recommended PCB Hole Ø |
| Without Boardlock   | 3,05 (.120)            |
| With Boardlock      | 3,10 (.122)            |
| Size 8 Contact Type | Recommended PCB Hole Ø |
| High Power (P)      | 3,28 (.129)            |





































































































