# Backshells from Amphenol PCD

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Amphenol

**Amphenol holds the leadership position for providing interconnect solutions that meet almost all Military, Aerospace and Industrial standards in the U.S., Europe and Asia.**

**With design and manufacturing facilities and sales offices spread across the globe, Amphenol offers a vast product portfolio of connectors, cable assemblies and system integration for almost all applications across various industries.**

**Amphenol . . We Connect the World Together**

## BACKSHELLS

**Within Amphenol's wide range of interconnect products is a full range of backshell hardware. Customers can take advantage of Amphenol's global synergy for connectors, backshells and cable harnessing with one place for all their interconnect needs.**

**Plus, coming to Amphenol for a custom design of a backshell, means that customers benefit from the vast amount of experience this global company has in designing interconnect solutions.**

This section covers the backshells that are provided through Amphenol PCD:

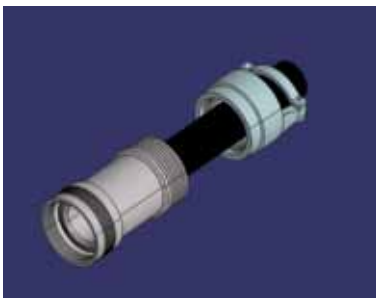
- Backshells for Connector Family "L", which includes MIL-DTL-38999 Series III and Series IV
- Backshells for Connector Family "K", which includes MIL-DTL-38999 Series II and Series I
- Backshells for Connector Family "J", which includes MIL-DTL-26482 (Series 2), MIL-DTL-5015 (Matrix MS345X), MIL-DTL-83723 (Matrix & Pyle Series III)

Amphenol Backshells are available in several different types, designed for optimum performance in the application or environment it will be used in. For example; in ground and naval applications the robustness and environmental sealing may be more important, where as weight may be the prime consideration for space and Aerospace application. The following overview explains the various families of Amphenol Backshells with its applications.

Some families of backshells shown here can be used without any additional protection. Some other types of backshells shown are generally used with heat shrink boots or similar protection/strain relief mechanism depending upon the specific requirements. Also, there are some clamps & nuts for the applications where varying degrees of strain reliefs and cable holding will suffice and weight saving is of higher importance.

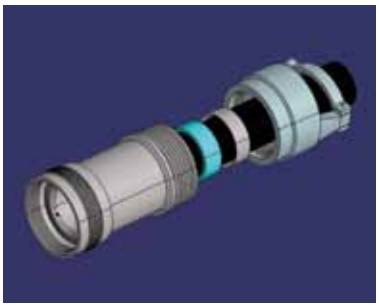
## Non-Environmental Backshell

- Effective cable holding mechanism with good strain relief when the environmental protection of the cable termination area is not a concern. Amphenol offers cost-effective solutions by eliminating extra sealing parts.
- Suitable for an inside the box/climate controlled room application where heavy cabling should be supported with adequate strain relief.



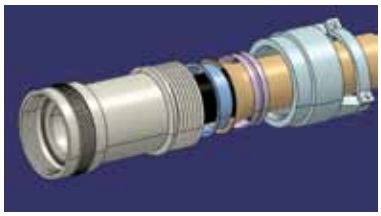
## Environmental Backshell

- Not only provide the cable support and strain relief, but ensure the cable sealing and environment protection by means of high quality sealing grommet and grommet follower. The strain relief nut is tightened squeezing the grommet onto the cable jacket during assembly.
- Provides 6 feet water sealing protection when used with perfectly jacketed cable, and suitable for harsh environment applications.



## Non-Environmental EMI/RFI Backshell

- 360-degree screen termination facility, in addition to other features of the Non-Environmental type. Available in straight, 90 degree bent and 45 degree bent varieties.
- Accommodates both individual and overall shielding.

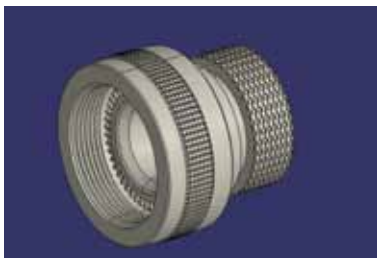


## Environmental EMI/RFI Backshell

- Ideal choice for heavy duty cabling solutions in harsh environment situations where electromagnet and radio frequency noises are to be isolated.
- Accommodates both individual and overall shielding.

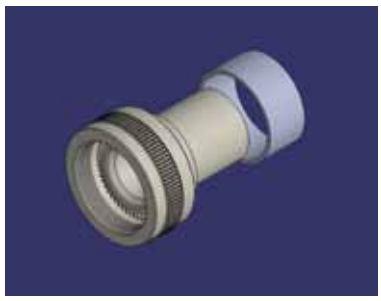
## Shrink Boot Adapter

- A good solution when the unshielded cables are terminated with heat shrink boots. It has a groove where the boot lip can be held which provides good grip apart from sufficient space inside for the cable looping.
- Using the heat shrink boot is one way of providing environmental protection and strain relief to cable termination. Using a suitable adapter is essential here to ensure the repairability.



## Crimp Ring Adapter

- Many cable terminations where heat shrink boots are used will require provision for terminating the screens too. It is achieved in this type of backshell through a ring, which can be crimped to the backshell body holding the screens in between.

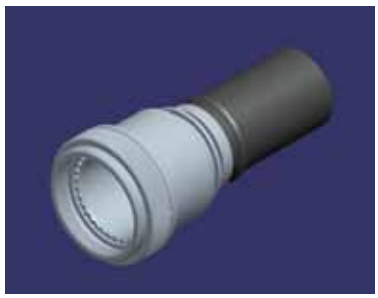


## Band Lock Adapter

- Another method of termination of screens. A high quality band will do the job in this backshell. Tempered bands are tightened over the shields, which is pulled over the banding area, using a special assembly tool.
- Suitable over cover by heat shrink boot or some other method as chosen by the designer could be used.
- Both crimp ring and banded terminations give a low DC resistance.

## Pre-Shield Adapter

- Supplied with some length of braid attached. This braid overlaps with the cable braid.
- Effective shielding takes place due to the 360° contact of the braid.
- Designed to accept heat shrink boot.
- Ease of assembly saves time for cable termination.



## SQ Adapter

- Another cost-effective way to terminate the braid to the adapter. The cost-effective braid is pulled over the conical shape to the rear end of the adapter and then tied. The end nut is tightened to ensure adequate grip for the shielding.
- A heat shrink boot can be used with this adapter also.

Note: The SQ adapter style is not covered in this catalog section; for more information go to www.backshellworld.com

## Quick Clamp

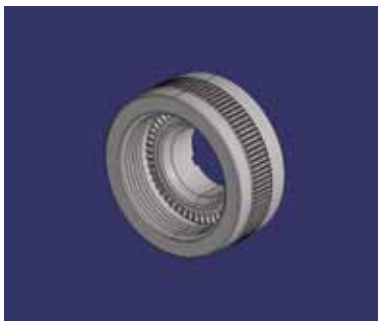
- A light weight clamp used for securing and "tidying up" cable into a desired direction.
- Used in interior wiring of aircraft.

## Strain Relief Clamps

- Another cost effective cable holding option when environmental protection is not a concern, and weight savings is a major consideration.
- Secures and "tidys-up" the cable and also provides good strain relief at the termination area.

## Grommet Nut

- Provides a good grommet-holding force for the crimp connectors when expensive and heavy backshells are not used. Such holding force is essential to hold the contacts and grommet in place when terminated with wire bundles.



## Lamp Thread Adapter

- An adapter with threads similar to that in the lamp base for shield termination.
- An effective, easy and quick method of shield termination and field maintenance.
- Termination area can accept a nut as well as a clamp. The nut option enables the use of heat shrink boot and the clamp option will facilitate the strain relief clamping without heat shrink boot after the shield/cable termination.

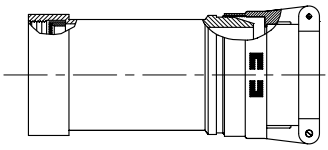
Note: The lamp thread adapter style is not covered in this catalog section; for more information go to www.backshellworld.com

## BACKSHELL ANGLE/PROFILES

Amphenol Backshells are available in three different angular profiles: straight, 90 degree and 45 degree. These profiles will meet most of the cable routing required in the interconnect market. We can also make additional profiles if required. Please go to the web link **http://www.backshellworld.com/customdesign.asp** to contact Amphenol about your specific backshell needs.

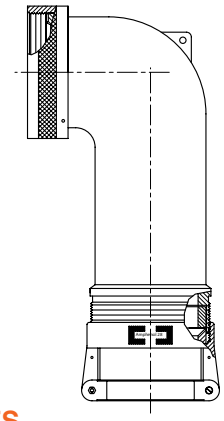
### Straight Backshells

Straight Backshells are available in different length and cable entry diameter for most applications. Different cable and braid terminating systems are also available as shown in the respective product sections.



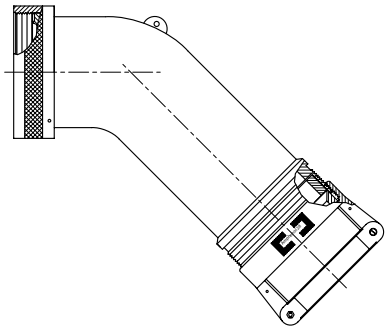
### 90° Angled Backshells

Many applications require the cable to be bent and routed rather than straight routed. Amphenol offers a 90° angled style in all the Backshell families for space saving and convenience.



### 45° Angled Backshells

Amphenol offers further design flexibility with a backshell that allows the cable to be routed 45° to the axis of the assembly.



## BACKSHELL COUPLING STYLES

Various coupling styles are available for the coupling between the backshell and the connector. Popular styles are shown in the respective backshell sections, and custom profiles can be designed. Please go to the web link **http://www.backshellworld.com/customdesign.asp** to contact Amphenol about your specific backshell needs.

### Spin Coupling

A captivated coupling nut within the backshell which provides the following advantages:

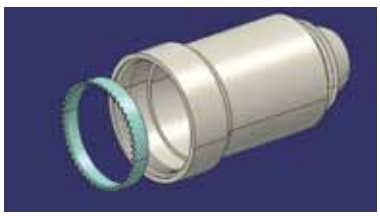
- Free rotation of the coupling nut which makes the assembly of the backshell to the connector easy without turning the entire backshell body.
- Lock wire holes are provided on the coupling nut to prevent accidental decoupling.

### Self-Lock Coupling

Same as the Spin Coupling style with the additional feature of “self-locking”. Internally locks the movement of the coupling nut so that accidental decoupling is prevented. Used in higher vibration conditions.

### Direct Coupling

The coupling nut is eliminated in this design, and the backshell directly threads to the connector. For applications when simple direct connectivity is sufficient.



## HOW TO SELECT A SUITABLE BACKSHELL

1. Based on the design and application considerations select the backshell type from the Quick Reference Guide, pages 479-482.

2. Review the Angle/Profiles and Coupling Styles on page 483 to determine the configuration which suits your application.

3. Scan the Connector Group Table on the next page to determine the Group Code (K, L or J) of the connector for which you require the backshell.
   - Backshells for Connector Family “L”, which includes MIL-DTL-38999 Series III and Series IV
   - Backshells for Connector Family “K”, which includes MIL-DTL-38999 Series II and Series I
   - Backshells for Connector Family “J”, which includes MIL-DTL-26482 (Series 2), MIL-DTL-5015 (Matrix MS345X), MIL-DTL-83723 (Matrix & Pyle Series III)

4. Go to the Backshell style pages within the connector family of your choice (K, L or J). Find the backshell style you need in the appropriate connector group section based on your choice of angle/profile and coupling style.

5. Build a part number from the sample part number on each backshell style page. For the material and finish options, you will need to turn to page 486 and review Table-2.

Selecting a Backshell can also be done from our web link:
**http://www.backshellworld.com/backshelldesigner.asp**

## CROSS-REFERENCE TO OTHER MANUFACTURER’S BACKSHELLS

If you have a Military part number or other manufacturer’s part number for which you are looking for an equivalent item, we have provided a cross-reference on our web link:
**http://www.backshellworld.com/crossreference.aspx**

## CUSTOM BUILT BACKSHELLS

Backshells for Military & Aerospace applications are governed by SAE, AS85049 standard and Amphenol Backshells are designed to meet the requirement of this standard. Though this standard covers the most popular styles of backshells, many applications call for additional styles and designs. Here is where the capability of Amphenol can support you from the concept to product realization and thereby your unique specification need is satisfied. Please visit our web link for further help:
**http://www.backshellworld.com/customdesign.asp**

## By Specification (TABLE-1A)

| Connector Specification | Series/Class | Connector Group Code |
|---|---|---|
| 40M38277 | | K |
| 40M39569 | | J |
| BS9520 | G0001 | K |
| BS9520 | G0002 | K |
| BS9520 | G0003 | L |
| BS9522 F0001 | Patt 602 | J |
| BS9522 F0012 | Patt 615 | M* |
| BS9522 F0017 | Patt 105 | N* |
| BS9522 F0020 | Patt 608 | N* |
| BS9522 F0029 | Patt 616 | K |
| BS9522 F0042 | | J |
| BS9522 N0001 | Patt 603 | N* |
| BS9522 N0003 | Patt 614 | K |
| CECC 75201.001 | | J |
| CECC 75201.002 | | L |
| DEF 5326-3 | | J |
| EN 2997 | | J |
| EN 3645 | | L |
| EN 3646 | | J |
| EN3372 | | M* |
| ESC 10 | | J |
| ESC11 | | J |
| JN1003 | | M* |
| LN 29504 | | J |
| LN 29728 | | J |
| LN29729 | | M* |
| MIL-C-81703 | 3 | J |
| MIL-DTL-26482 | 2 | J |
| MIL-DTL-38999 | I | K |
| MIL-DTL-38999 | II | K |
| MIL-DTL-38999 | III | L |
| MIL-DTL-38999 | IV | L |
| MIL-DTL-5015 | MS340 | J |
| MIL-DTL-5015 | MS345 | J |
| MIL-DTL-83723 | I | J |
| MIL-DTL-83723 | III | J |
| NAS 1599 | | J |
| NFC93422 | HE302 | J |
| NFC93422 | HE306 | M* |
| NFC93422 | HE308 | K |
| NFC93422 | HE309 | K |
| NFL 54140 | | J |
| PAN 6432-1 | | J |
| PAN 6432-2 | | J |
| PAN 6433-1 | | K |
| PAN6433-2 | | M* |
| VG 96912 | 2 | K |
| VG 96912 | 1 | M* |

## By Manufacturer (TABLE-1D)

| Amphenol/Bendix/ Socapex/Pyle Part Number Prefix | Connector Group Code |
|---|---|
| 10-475 | K |
| 118 | J |
| 162GB | N* |
| 418-1 | K |
| 418-2 | K |
| 418-5 | M* |
| 486 | J |
| 518 | J |
| 602GB | J |
| 62GB | N* |
| 652 | J |
| 711 | J |
| 801 | J |
| 91-483 | J |
| 944 | J |
| B | J |
| BE | J |
| BT | J |
| BY1 | J |
| EA | J |
| EB | J |
| EEG | J |
| ES | J |
| ET | J |
| JT | K |
| LJT | K |
| LS | J |
| MB1 | J |
| MB3 | J |
| MB9 | K |
| MD | J |
| ML94 | L |
| MQ3 | J |
| MT3 | J |
| MT93 | L |
| PTS-DR | J |
| SJT | M* |
| T3 | L |
| TV | L |
| TVRB | L |
| TVS | L |

* Connector Groups M and N are not included in this catalog section. For more information go to backshellworld.com.

## MATERIALS & FINISHES

Amphenol offers adapters in the following standard finishes. The base material is aluminum alloy.

MATERIAL:

| | |
|---|---|
| Aluminum parts: | As per ASTM B 211, 221, 209, 85, 26 |
| Steel parts: | 300 series, as per AMS-QQ-S-763/ASTM A 582 |
| Elastomers: | Fluro Silcon, Silicon |
| Other parts: | Suitable corrosion resistant material |

## MIL (QPL) QUALIFICATION

Many Amphenol Backshells are qualified to SAE-AS 85049 standard. (Old standard is MIL-C-85049).

## TABLE-2 (PLATING FINISHES)

| Amphenol Designation | MIL Designation | Finish | Guiding Specifications/Requirements |
|---|---|---|---|
| A | A | Anodize, Black* | To meet AS85049 requirements |
| B | | Anodize, Hard* | AMS-A-8625, Type-III, Class-1 |
| L | | Nickel, Bright | AMS-QQ-290, Class-1, Grade-F |
| M | | Electroless Nickel | AMS-C-26074, Class-4, Grade-B |
| N | N | Electroless Nickel | To meet AS85049 requirements |
| T | | Cadmium, Bright | AMS-QQ-P-416, Type-I, Class-2 |
| U | | Cadmium, Olive drab | AMS-QQ-P-416, Type II, Class 3 |
| V | | Cadmium, Olive drab over Electroless Nickel | AMS-QQ-P-416, Type-II, Class-3 (Cadmium); AMS-C-26074, Class-4, grade-B (Nickel) |
| W | W | Cadmium, Olive drab over Electroless Nickel | To meet AS85049 requirements |
| Y | | Zinc-Cobalt, Dark Olive drab | ASTM-B840 |
| Z | | Zinc-Cobalt, Black | ASTM-B840 |

* Non conductive coatings.

For availability of other finishes, email your special requirements: email: sales@backshellworld.com

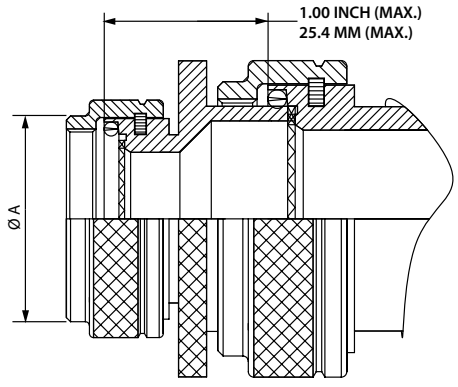
## ASSEMBLY TORQUE VALUES

Amphenol recommends the following torque values for its adapters while assembling them to the connectors. These values are based on the coupling thread strength specified in SAE-AS85049 standard.

| Connector Shell Size | Torque (Inch-Pounds) |
|---|---|
| 8, 9 | 40 |
| 3, 10, 10SL, 11 | 40 |
| 7, 12, 12S, 13 | 40 |
| 14, 14S, 15 | 40 |
| 16, 16S, 17 | 40 |
| 18, 19, 27 | 40 |
| 20, 21, 37 | 80 |
| 22, 23 | 80 |
| 24, 25, 61 | 80 |
| 28 | 100 |
| 32 | 100 |
| 36 | 100 |
| 40 | 120 |
| 44 | 120 |
| 48 | 120 |

## STYLE-2 CONFIGURATION

Some design consideration will require bigger diameter cable to be terminated in the smaller shell size connectors. Cable with heavy/thicker shielding, many wires for different branches/ routing are some of the examples. Such cable termination will require a bigger adapter body with cable entry dimensions more than the connector rear side dimensions Amphenol also supports this kind of application. The coupling end of the adapter will be modified to Style-2 design as shown in the figure below in such cases. The overall length of the Style-2 design adapters would be increased by approx. 1 inch (25.mm) as shown. This alternative design is applicable for all the Backshell Families listed in this catalog.



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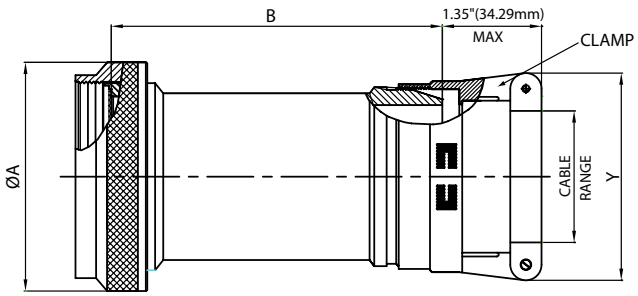
# For Connector Family L

**38999 Series III, IV**

Connector Family "L", includes MIL-DTL-38999 Series III and Series IV




**MIL Part Number**

M85049 / 21 11 W 03 A

- MIL Series
- Slash Sheet: 21: Straight, Spin Coupling
- Shell Size: See Table-A
- Finish: See Table- 2 (pg. 486)
- Clamp Size: See Table-A
- Length: See Table-A (Omit for "STD")

**TABLE – A**

| MIL PART NUMBER DESIGNATOR | | | CONNECTOR SHELL SIZE/ CODE (REF.) | CABLE RANGE | | | | A DIA. (MAX) | | B (MAX) | | Y (MAX) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | MIN | | MAX | | | | | | | |
| CONNECTOR SHELL SIZE | CLAMP SIZE | LENGTH | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 9 | 01 | STD. | 09 / A | 0.06 | 1.57 | 0.13 | 3.18 | 0.75 | 19.05 | 1.53 | 38.86 | 0.80 | 20.32 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | 02 | STD. | | 0.13 | 3.18 | 0.25 | 6.35 | | | 1.53 | 38.86 | 1.00 | 25.40 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| 11 | 01 | STD. | 11 / B | 0.06 | 1.57 | 0.13 | 3.18 | 0.85 | 21.59 | 1.53 | 38.86 | 0.80 | 20.32 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | 02 | STD. | | 0.13 | 3.18 | 0.25 | 6.35 | | | 1.53 | 38.86 | 1.00 | 25.40 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | 03 | STD. | | 0.25 | 6.35 | 0.38 | 9.53 | | | 1.53 | 38.86 | 1.10 | 27.94 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| 13 | 02 | STD. | 13 / C | 0.13 | 3.18 | 0.25 | 6.35 | 1.00 | 25.40 | 1.53 | 38.86 | 1.00 | 25.40 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | 03 | STD. | | 0.25 | 6.35 | 0.38 | 9.53 | | | 1.53 | 38.86 | 1.10 | 27.94 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | 04 | STD. | | 0.31 | 7.92 | 0.50 | 12.70 | | | 1.53 | 38.86 | 1.20 | 30.48 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| 15 | 02 | STD. | 15 / D | 0.13 | 3.18 | 0.25 | 6.35 | 1.10 | 27.94 | 1.53 | 38.86 | 1.00 | 25.40 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | 03 | STD. | | 0.25 | 6.35 | 0.38 | 9.53 | | | 1.53 | 38.86 | 1.10 | 27.94 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | 04 | STD. | | 0.31 | 7.92 | 0.50 | 12.70 | | | 1.53 | 38.86 | 1.20 | 30.48 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | 05 | STD. | | 0.44 | 11.10 | 0.63 | 15.88 | | | 1.53 | 38.86 | 1.25 | 31.75 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| 17 | 02 | STD. | 17/E | 0.13 | 3.18 | 0.25 | 6.35 | 1.25 | 31.75 | 1.53 | 38.86 | 1.00 | 25.40 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | 03 | STD. | | 0.25 | 6.35 | 0.38 | 9.53 | | | 1.53 | 38.86 | 1.10 | 27.94 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | 04 | STD. | | 0.31 | 7.92 | 0.50 | 12.70 | | | 1.53 | 38.86 | 1.20 | 30.48 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE

# For Connector Family L

**38999 Series III, IV** Connector Family "L", includes MIL-DTL-38999 Series III and Series IV



TABLE – A, Cont.

| MIL PART NUMBER DESIGNATOR | | | CONNECTOR SHELL SIZE/ CODE (REF.) | CABLE RANGE | | | | A DIA. (MAX) | | B (MAX) | | Y (MAX) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | MIN | | MAX | | | | | | | |
| CONNECTOR SHELL SIZE | CLAMP SIZE | LENGTH | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 17, cont. | 05 | STD. | 17/E | 0.44 | 11.10 | 0.63 | 15.88 | 1.25 | 31.75 | 1.53 | 38.86 | 1.25 | 31.75 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | 06 | STD. | | 0.56 | 14.27 | 0.75 | 19.05 | | | 1.53 | 38.86 | 1.40 | 35.56 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| 19 | 03 | STD. | 19 / F | 0.25 | 6.35 | 0.38 | 9.53 | 1.40 | 35.56 | 1.53 | 38.86 | 1.10 | 27.94 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | 04 | STD. | | 0.31 | 7.92 | 0.50 | 12.70 | | | 1.53 | 38.86 | 1.20 | 30.48 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | 05 | STD. | | 0.44 | 11.10 | 0.63 | 15.88 | | | 1.53 | 38.86 | 1.25 | 31.75 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | 06 | STD. | | 0.56 | 14.27 | 0.75 | 19.05 | | | 1.53 | 38.86 | 1.40 | 35.56 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | 07 | STD. | | 0.69 | 17.45 | 0.88 | 22.23 | | | 1.53 | 38.86 | 1.50 | 38.10 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| 21 | 03 | STD. | 21 / G | 0.25 | 6.35 | 0.38 | 9.53 | 1.50 | 38.10 | 1.53 | 38.86 | 1.10 | 27.94 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |
| | 04 | STD. | | 0.31 | 7.92 | 0.50 | 12.70 | | | 1.53 | 38.86 | 1.20 | 30.48 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |
| | 05 | STD. | | 0.44 | 11.10 | 0.63 | 15.88 | | | 1.53 | 38.86 | 1.25 | 31.75 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |
| | 06 | STD. | | 0.56 | 14.27 | 0.75 | 19.05 | | | 1.53 | 38.86 | 1.40 | 35.56 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |
| | 07 | STD. | | 0.69 | 17.45 | 0.88 | 22.23 | | | 1.53 | 38.86 | 1.50 | 38.10 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |
| | 08 | STD. | | 0.81 | 20.62 | 1.00 | 25.40 | | | 1.53 | 38.86 | 1.65 | 41.91 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |
| 23 | 03 | STD. | 23 / H | 0.25 | 6.35 | 0.38 | 9.53 | 1.65 | 41.91 | 1.53 | 38.86 | 1.10 | 27.94 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE

# For Connector Family L

**38999 Series III, IV** Connector Family "L", includes MIL-DTL-38999 Series III and Series IV

**TABLE – A, Cont.**

| MIL PART NUMBER DESIGNATOR | | | CONNECTOR SHELL SIZE/ CODE (REF.) | CABLE RANGE | | | | A DIA. (MAX) | | B (MAX) | | Y (MAX) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | MIN | | MAX | | | | | | | |
| CONNECTOR SHELL SIZE | CLAMP SIZE | LENGTH | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 23, cont. | 04 | STD. | 23 / H | 0.31 | 7.92 | 0.50 | 12.70 | 1.65 | 41.91 | 1.53 | 38.86 | 1.20 | 30.48 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |
| | 05 | STD. | | 0.44 | 11.10 | 0.63 | 15.88 | | | 1.53 | 38.86 | 1.25 | 31.75 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |
| | 06 | STD. | | 0.56 | 14.27 | 0.75 | 19.05 | | | 1.53 | 38.86 | 1.40 | 35.56 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |
| | 07 | STD. | | 0.69 | 17.45 | 0.88 | 22.23 | | | 1.53 | 38.86 | 1.50 | 38.10 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |
| | 08 | STD. | | 0.81 | 20.62 | 1.00 | 25.40 | | | 1.53 | 38.86 | 1.65 | 41.91 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |
| | 09 | STD. | | 0.94 | 23.80 | 1.13 | 28.58 | | | 1.53 | 38.86 | 1.75 | 44.45 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |
| 25 | 04 | STD. | 25 / J | 0.31 | 7.92 | 0.50 | 12.70 | 1.75 | 44.45 | 1.53 | 38.86 | 1.20 | 30.48 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |
| | 05 | STD. | | 0.44 | 11.10 | 0.63 | 15.88 | | | 1.53 | 38.86 | 1.25 | 31.75 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |
| | 06 | STD. | | 0.56 | 14.27 | 0.75 | 19.05 | | | 1.53 | 38.86 | 1.40 | 35.56 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |
| | 07 | STD. | | 0.69 | 17.45 | 0.88 | 22.23 | | | 1.53 | 38.86 | 1.50 | 38.10 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |
| | 08 | STD. | | 0.81 | 20.62 | 1.00 | 25.40 | | | 1.53 | 38.86 | 1.65 | 41.91 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |
| | 09 | STD. | | 0.94 | 23.80 | 1.13 | 28.58 | | | 1.53 | 38.86 | 1.75 | 44.45 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |
| | 10 | STD. | | 1.06 | 26.97 | 1.25 | 31.75 | | | 1.53 | 38.86 | 1.90 | 48.26 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |

Note: For more cable entry and length options, email: sales@backshellworld.com. All dimensions for reference only.

# For Connector Family L

**38999 Series III, IV** Connector Family "L", includes MIL-DTL-38999 Series III and Series IV

**MIL Part Number**

**M85049 / 19 11 W 03 A**

- MIL Series
- Slash Sheet: 19: Straight, Spin Coupling
- Shell Size: See Table-A
- Finish: See Table-2 (pg. 486)
- Clamp Size: See Table-A
- Length: See Table-A (Omit for "STD")

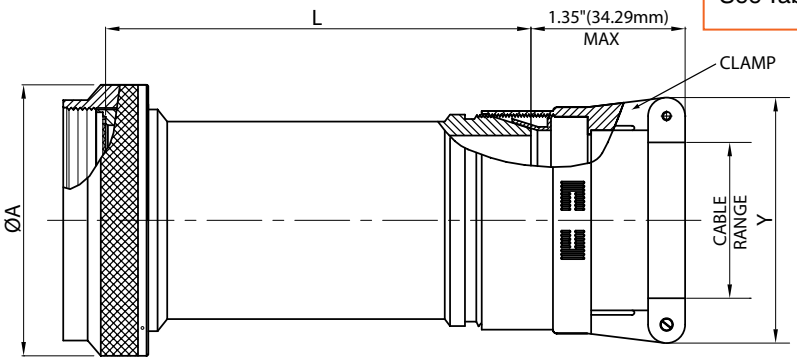



**TABLE-A**

| MIL PART NUMBER DESIGNATOR | | | CONNECTOR SHELL SIZE/ CODE (REF.) | CABLE RANGE | | | | A DIA. (MAX) | | L (MAX) | | Y (MAX) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | MIN | | MAX | | | | | | | |
| CONNECTOR SHELL SIZE | CLAMP SIZE | LENGTH | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 9 | 01 | STD. | 09 / A | 0.06 | 1.57 | 0.13 | 3.18 | 0.75 | 19.05 | 1.53 | 38.86 | 0.80 | 20.32 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | 02 | STD. | | 0.13 | 3.18 | 0.25 | 6.35 | | | 1.53 | 38.86 | 1.00 | 25.40 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| 11 | 01 | STD. | 11 / B | 0.06 | 1.57 | 0.13 | 3.18 | 0.85 | 21.59 | 1.53 | 38.86 | 0.80 | 20.32 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | 02 | STD. | | 0.13 | 3.18 | 0.25 | 6.35 | | | 1.53 | 38.86 | 1.00 | 25.40 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | 03 | STD. | | 0.25 | 6.35 | 0.38 | 9.53 | | | 1.53 | 38.86 | 1.10 | 27.94 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| 13 | 02 | STD. | 13 / C | 0.13 | 3.18 | 0.25 | 6.35 | 1.00 | 25.40 | 1.53 | 38.86 | 1.00 | 25.40 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | 03 | STD. | | 0.25 | 6.35 | 0.38 | 9.53 | | | 1.53 | 38.86 | 1.10 | 27.94 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | 04 | STD. | | 0.31 | 7.92 | 0.50 | 12.70 | | | 1.53 | 38.86 | 1.20 | 30.48 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| 15 | 02 | STD. | 15 / D | 0.13 | 3.18 | 0.25 | 6.35 | 1.10 | 27.94 | 1.53 | 38.86 | 1.00 | 25.40 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | 03 | STD. | | 0.25 | 6.35 | 0.38 | 9.53 | | | 1.53 | 38.86 | 1.10 | 27.94 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | 04 | STD. | | 0.31 | 7.92 | 0.50 | 12.70 | | | 1.53 | 38.86 | 1.20 | 30.48 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | 05 | STD. | | 0.44 | 11.10 | 0.63 | 15.88 | | | 1.53 | 38.86 | 1.25 | 31.75 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE

# For Connector Family L

**38999 Series III, IV** Connector Family "L", includes MIL-DTL-38999 Series III and Series IV

TABLE-A, cont.

| MIL PART NUMBER DESIGNATOR | | | CONNECTOR SHELL SIZE/ CODE (REF.) | CABLE RANGE | | | | A DIA. (MAX) | | L (MAX) | | Y (MAX) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | MIN | | MAX | | | | | | | |
| CONNECTOR SHELL SIZE | CLAMP SIZE | LENGTH | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 17 | 02 | STD. | 17 / E | 0.13 | 3.18 | 0.25 | 6.35 | 1.25 | 31.75 | 1.53 | 38.86 | 1.00 | 25.40 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | 03 | STD. | | 0.25 | 6.35 | 0.38 | 9.53 | | | 1.53 | 38.86 | 1.10 | 27.94 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | 04 | STD. | | 0.31 | 7.92 | 0.50 | 12.70 | | | 1.53 | 38.86 | 1.20 | 30.48 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | 05 | STD. | | 0.44 | 11.10 | 0.63 | 15.88 | | | 1.53 | 38.86 | 1.25 | 31.75 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | 06 | STD. | | 0.56 | 14.27 | 0.75 | 19.05 | | | 1.53 | 38.86 | 1.40 | 35.56 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| 19 | 03 | STD. | 19 / F | 0.25 | 6.35 | 0.38 | 9.53 | 1.40 | 35.56 | 1.53 | 38.86 | 1.10 | 27.94 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | 04 | STD. | | 0.31 | 7.92 | 0.50 | 12.70 | | | 1.53 | 38.86 | 1.20 | 30.48 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | 05 | STD. | | 0.44 | 11.10 | 0.63 | 15.88 | | | 1.53 | 38.86 | 1.25 | 31.75 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | 06 | STD. | | 0.56 | 14.27 | 0.75 | 19.05 | | | 1.53 | 38.86 | 1.40 | 35.56 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | 07 | STD. | | 0.69 | 17.45 | 0.88 | 22.23 | | | 1.53 | 38.86 | 1.50 | 38.10 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| 21 | 03 | STD. | 21 / G | 0.25 | 6.35 | 0.38 | 9.53 | 1.50 | 38.10 | 1.53 | 38.86 | 1.10 | 27.94 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |
| | 04 | STD. | | 0.31 | 7.92 | 0.50 | 12.70 | | | 1.53 | 38.86 | 1.20 | 30.48 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |
| | 05 | STD. | | 0.44 | 11.10 | 0.63 | 15.88 | | | 1.53 | 38.86 | 1.25 | 31.75 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |
| | 06 | STD. | | 0.56 | 14.27 | 0.75 | 19.05 | | | 1.53 | 38.86 | 1.40 | 35.56 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |
| | 07 | STD. | | 0.69 | 17.45 | 0.88 | 22.23 | | | 1.53 | 38.86 | 1.50 | 38.10 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |
| | 08 | STD. | | 0.81 | 20.62 | 1.00 | 25.40 | | | 1.53 | 38.86 | 1.65 | 41.91 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE

# For Connector Family L

**38999 Series III, IV** Connector Family "L", includes MIL-DTL-38999 Series III and Series IV

**TABLE-A, cont.**

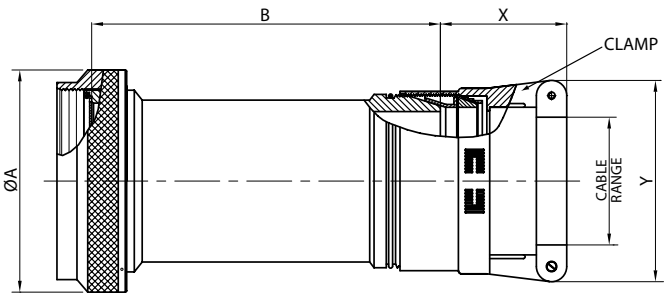
| MIL PART NUMBER DESIGNATOR | | | CONNECTOR SHELL SIZE/ CODE (REF.) | CABLE RANGE | | | | A DIA. (MAX) | | L (MAX) | | Y (MAX) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | MIN | | MAX | | | | | | | |
| CONNECTOR SHELL SIZE | CLAMP SIZE | LENGTH | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 23 | 03 | STD. | 23 / H | 0.25 | 6.35 | 0.38 | 9.53 | 1.65 | 41.91 | 1.53 | 38.86 | 1.10 | 27.94 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |
| | 04 | STD. | | 0.31 | 7.92 | 0.50 | 12.70 | | | 1.53 | 38.86 | 1.20 | 30.48 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |
| | 05 | STD. | | 0.44 | 11.10 | 0.63 | 15.88 | | | 1.53 | 38.86 | 1.25 | 31.75 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |
| | 06 | STD. | | 0.56 | 14.27 | 0.75 | 19.05 | | | 1.53 | 38.86 | 1.40 | 35.56 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |
| | 07 | STD. | | 0.69 | 17.45 | 0.88 | 22.23 | | | 1.53 | 38.86 | 1.50 | 38.10 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |
| | 08 | STD. | | 0.81 | 20.62 | 1.00 | 25.40 | | | 1.53 | 38.86 | 1.65 | 41.91 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |
| | 09 | STD. | | 0.94 | 23.80 | 1.13 | 28.58 | | | 1.53 | 38.86 | 1.75 | 44.45 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |
| 25 | 04 | STD. | 25 / J | 0.31 | 7.92 | 0.50 | 12.70 | 1.75 | 44.45 | 1.53 | 38.86 | 1.20 | 30.48 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |
| | 05 | STD. | | 0.44 | 11.10 | 0.63 | 15.88 | | | 1.53 | 38.86 | 1.25 | 31.75 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |
| | 06 | STD. | | 0.56 | 14.27 | 0.75 | 19.05 | | | 1.53 | 38.86 | 1.40 | 35.56 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |
| | 07 | STD. | | 0.69 | 17.45 | 0.88 | 22.23 | | | 1.53 | 38.86 | 1.50 | 38.10 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |
| | 08 | STD. | | 0.81 | 20.62 | 1.00 | 25.40 | | | 1.53 | 38.86 | 1.65 | 41.91 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |
| | 09 | STD. | | 0.94 | 23.80 | 1.13 | 28.58 | | | 1.53 | 38.86 | 1.75 | 44.45 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |
| | 10 | STD. | | 1.06 | 26.97 | 1.25 | 31.75 | | | 1.53 | 38.86 | 1.90 | 48.26 |
| | | A | | | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | | | 4.53 | 115.06 | | |

Amphenol

# For Connector Family L

**38999 Series III, IV**

Connector Family "L", includes MIL-DTL-38999 Series III and Series IV




**MIL Part Number**

**M85049 / 18 11 W 03 A**

- MIL Series
- Slash Sheet: 18: Straight, Spin Coupling
- Shell Size: See Table-A
- Finish: See Table-2 (pg. 486)
- Clamp Size: See Table-A
- Length: See Table-A (Omit for "STD")

**TABLE – A**

| MIL PART NUMBER DESIGNATOR | | | CONNECTOR SHELL SIZE/ CODE (REF.) | CABLE RANGE | | | | A DIA. (MAX) | | B (MAX) | | X (MAX) | | Y (MAX) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | MIN | | MAX | | | | | | | | | |
| CONNECTOR SHELL SIZE | CLAMP SIZE | LENGTH CODE | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 9 | 01 | STD. | 09 / A | 0.06 | 1.57 | 0.13 | 3.18 | 0.75 | 19.05 | 1.53 | 38.86 | 1.25 | 31.75 | 0.80 | 20.32 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | 02 | STD. | | 0.13 | 3.18 | 0.25 | 6.35 | | | 1.53 | 38.86 | 1.25 | 31.75 | 1.00 | 25.40 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| 11 | 01 | STD. | 11 / B | 0.06 | 1.57 | 0.13 | 3.18 | 0.85 | 21.59 | 1.53 | 38.86 | 1.25 | 31.75 | 0.80 | 20.32 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | 02 | STD. | | 0.13 | 3.18 | 0.25 | 6.35 | | | 1.53 | 38.86 | 1.25 | 31.75 | 1.00 | 25.40 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | 03 | STD. | | 0.25 | 6.35 | 0.38 | 9.53 | | | 1.53 | 38.86 | 1.25 | 31.75 | 1.10 | 27.94 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| 13 | 02 | STD. | 13 / C | 0.13 | 3.18 | 0.25 | 6.35 | 1.00 | 25.40 | 1.53 | 38.86 | 1.25 | 31.75 | 1.00 | 25.40 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | 03 | STD. | | 0.25 | 6.35 | 0.38 | 9.53 | | | 1.53 | 38.86 | 1.25 | 31.75 | 1.10 | 27.94 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | 04 | STD. | | 0.38 | 9.53 | 0.50 | 12.70 | | | 1.53 | 38.86 | 1.25 | 31.75 | 1.20 | 30.48 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| 15 | 02 | STD. | 15 / D | 0.13 | 3.18 | 0.25 | 6.35 | 1.15 | 29.21 | 1.53 | 38.86 | 1.25 | 31.75 | 1.00 | 25.40 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | | | 3.53 | 89.66 | | | | |
| | 03 | STD. | | 0.25 | 6.35 | 0.38 | 9.53 | | | 1.53 | 38.86 | 1.25 | 31.75 | 1.10 | 27.94 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | | | 3.53 | 89.66 | | | | |
| | 04 | STD. | | 0.38 | 9.53 | 0.50 | 12.70 | | | 1.53 | 38.86 | 1.25 | 31.75 | 1.20 | 30.48 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | | | 3.53 | 89.66 | | | | |
| | 05 | STD. | | 0.50 | 12.70 | 0.63 | 15.88 | | | 1.53 | 38.86 | 1.31 | 33.27 | 1.25 | 31.75 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | | | 3.53 | 89.66 | | | | |
| 17 | 02 | STD. | 17 / E | 0.13 | 3.18 | 0.25 | 6.35 | 1.25 | 31.75 | 1.53 | 38.86 | 1.25 | 31.75 | 1.00 | 25.40 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | | | 3.53 | 89.66 | | | | |
| | 03 | STD. | | 0.25 | 6.35 | 0.38 | 9.53 | | | 1.53 | 38.86 | 1.25 | 31.75 | 1.10 | 27.94 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | | | 3.53 | 89.66 | | | | |
| | 04 | STD. | | 0.38 | 9.53 | 0.50 | 12.70 | | | 1.53 | 38.86 | 1.25 | 31.75 | 1.20 | 30.48 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | | | 3.53 | 89.66 | | | | |
| | 05 | STD. | | 0.50 | 12.70 | 0.63 | 15.88 | | | 1.53 | 38.86 | 1.31 | 33.27 | 1.25 | 31.75 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | | | 3.53 | 89.66 | | | | |
| | 06 | STD. | | 0.63 | 15.88 | 0.75 | 19.05 | | | 1.53 | 38.86 | 1.38 | 35.05 | 1.40 | 35.56 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | | | 3.53 | 89.66 | | | | |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE

# For Connector Family L

**38999 Series III, IV** Connector Family "L", includes MIL-DTL-38999 Series III and Series IV



TABLE – A, cont.

| MIL PART NUMBER DESIGNATOR | | | CONNECTOR | CABLE RANGE | | | | A DIA. (MAX) | | B (MAX) | | X (MAX) | | Y (MAX) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | MIN | | MAX | | | | | | | | | |
| CONNECTOR SHELL SIZE | CLAMP SIZE | LENGTH CODE | SHELL SIZE/ CODE (REF.) | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 19 | 03 | STD. | 19 / F | 0.25 | 6.35 | 0.38 | 9.53 | 1.40 | 35.56 | 1.53 | 38.86 | 1.25 | 31.75 | 1.10 | 27.94 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | | | 3.53 | 89.66 | | | | |
| | 04 | STD. | | 0.38 | 9.53 | 0.50 | 12.70 | | | 1.53 | 38.86 | 1.25 | 31.75 | 1.20 | 30.48 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | | | 3.53 | 89.66 | | | | |
| | 05 | STD. | | 0.50 | 12.70 | 0.63 | 15.88 | | | 1.53 | 38.86 | 1.31 | 33.27 | 1.25 | 31.75 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | | | 3.53 | 89.66 | | | | |
| | 06 | STD. | | 0.63 | 15.88 | 0.75 | 19.05 | | | 1.53 | 38.86 | 1.38 | 35.05 | 1.40 | 35.56 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | | | 3.53 | 89.66 | | | | |
| | 07 | STD. | | 0.75 | 19.05 | 0.88 | 22.23 | | | 1.53 | 38.86 | 1.50 | 38.10 | 1.50 | 38.10 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | | | 3.53 | 89.66 | | | | |
| 21 | 03 | STD. | 21 / G | 0.25 | 6.35 | 0.38 | 9.53 | 1.55 | 39.37 | 1.53 | 38.86 | 1.25 | 31.75 | 1.10 | 27.94 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | | | 3.53 | 89.66 | | | | |
| | | C | | | | | | | | 4.53 | 115.06 | | | | |
| | 04 | STD. | | 0.38 | 9.53 | 0.50 | 12.70 | | | 1.53 | 38.86 | 1.25 | 31.75 | 1.20 | 30.48 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | | | 3.53 | 89.66 | | | | |
| | | C | | | | | | | | 4.53 | 115.06 | | | | |
| | 05 | STD. | | 0.50 | 12.70 | 0.63 | 15.88 | | | 1.53 | 38.86 | 1.31 | 33.27 | 1.25 | 31.75 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | | | 3.53 | 89.66 | | | | |
| | | C | | | | | | | | 4.53 | 115.06 | | | | |
| | 06 | STD. | | 0.63 | 15.88 | 0.75 | 19.05 | | | 1.53 | 38.86 | 1.38 | 35.05 | 1.40 | 35.56 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | | | 3.53 | 89.66 | | | | |
| | | C | | | | | | | | 4.53 | 115.06 | | | | |
| | 07 | STD. | | 0.75 | 19.05 | 0.88 | 22.23 | | | 1.53 | 38.86 | 1.50 | 38.10 | 1.50 | 38.10 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | | | 3.53 | 89.66 | | | | |
| | | C | | | | | | | | 4.53 | 115.06 | | | | |
| | 08 | STD. | | 0.88 | 22.23 | 1.00 | 25.40 | | | 1.53 | 38.86 | 1.63 | 41.40 | 1.65 | 41.91 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | | | 3.53 | 89.66 | | | | |
| | | C | | | | | | | | 4.53 | 115.06 | | | | |
| 23 | 03 | STD. | 23 / H | 0.25 | 6.35 | 0.38 | 9.53 | 1.65 | 41.91 | 1.53 | 38.86 | 1.25 | 31.75 | 1.10 | 27.94 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | | | 3.53 | 89.66 | | | | |
| | | C | | | | | | | | 4.53 | 115.06 | | | | |
| | 04 | STD. | | 0.38 | 9.53 | 0.50 | 12.70 | | | 1.53 | 38.86 | 1.25 | 31.75 | 1.20 | 30.48 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | | | 3.53 | 89.66 | | | | |
| | | C | | | | | | | | 4.53 | 115.06 | | | | |
| | 05 | STD. | | 0.50 | 12.70 | 0.63 | 15.88 | | | 1.53 | 38.86 | 1.31 | 33.27 | 1.25 | 31.75 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | | | 3.53 | 89.66 | | | | |
| | | C | | | | | | | | 4.53 | 115.06 | | | | |
| | 06 | STD. | | 0.63 | 15.88 | 0.75 | 19.05 | | | 1.53 | 38.86 | 1.38 | 35.05 | 1.40 | 35.56 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | | | 3.53 | 89.66 | | | | |
| | | C | | | | | | | | 4.53 | 115.06 | | | | |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE

# For Connector Family L

**38999 Series III, IV** Connector Family "L", includes MIL-DTL-38999 Series III and Series IV

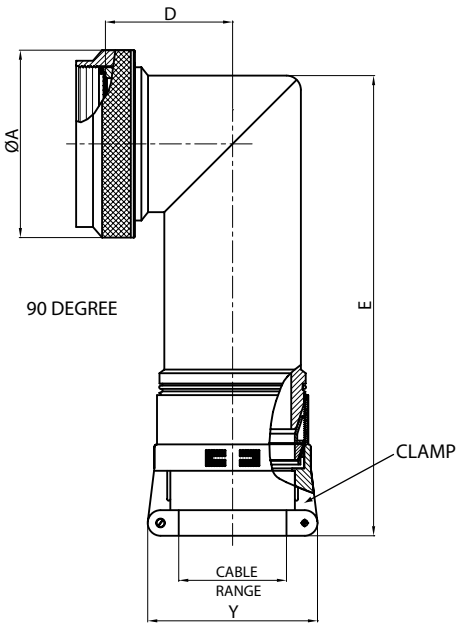
**TABLE – A, cont.**

| MIL PART NUMBER DESIGNATOR | | | CONNECTOR SHELL SIZE/ CODE (REF.) | CABLE RANGE | | | | A DIA. (MAX) | | B (MAX) | | X (MAX) | | Y (MAX) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | MIN | | MAX | | | | | | | | | |
| CONNECTOR SHELL SIZE | CLAMP SIZE | LENGTH CODE | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 23, cont. | 07 | STD. | 23 / H | 0.75 | 19.05 | 0.88 | 22.23 | 1.65 | 41.91 | 1,53 | 38.86 | 1.50 | 38.10 | 1.50 | 38.10 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | | | 3.53 | 89.66 | | | | |
| | | C | | | | | | | | 4.53 | 115.06 | | | | |
| | 08 | STD. | | 0.88 | 22.23 | 1.00 | 25.40 | | | 1.53 | 38.86 | 1.63 | 41.40 | 1.65 | 42.91 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | | | 3.53 | 89.66 | | | | |
| | | C | | | | | | | | 4.53 | 115.06 | | | | |
| | 09 | STD. | | 1.00 | 25.40 | 1.13 | 28.58 | | | 1.53 | 38.86 | 1.63 | 41.40 | 1.75 | 44.45 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | | | 3.53 | 89.66 | | | | |
| | | C | | | | | | | | 4.53 | 115.06 | | | | |
| 25 | 04 | STD. | 25 / J | 0.38 | 9.53 | 0.50 | 12.70 | 1.85 | 46.99 | 1.53 | 38.86 | 1.25 | 31.75 | 1.20 | 30.48 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | | | 3.53 | 89.66 | | | | |
| | | C | | | | | | | | 4.53 | 115.06 | | | | |
| | 05 | STD. | | 0.50 | 12.70 | 0.63 | 15.88 | | | 1.53 | 38.86 | 1.31 | 33.27 | 1.25 | 31.75 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | | | 3.53 | 89.66 | | | | |
| | | C | | | | | | | | 4.53 | 115.06 | | | | |
| | 06 | STD. | | 0.63 | 15.88 | 0.75 | 19.05 | | | 1.53 | 38.86 | 1.38 | 35.05 | 1.40 | 35.56 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | | | 3.53 | 89.66 | | | | |
| | | C | | | | | | | | 4.53 | 115.06 | | | | |
| | 07 | STD. | | 0.75 | 19.05 | 0.88 | 22.23 | | | 1.53 | 38.86 | 1.50 | 38.10 | 1.50 | 38.10 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | | | 3.53 | 89.66 | | | | |
| | | C | | | | | | | | 4.53 | 115.06 | | | | |
| | 08 | STD. | | 0.88 | 22.23 | 1.00 | 25.40 | | | 1.53 | 38.86 | 1.63 | 41.40 | 1.65 | 41.91 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | | | 3.53 | 89.66 | | | | |
| | | C | | | | | | | | 4.53 | 115.06 | | | | |
| | 09 | STD. | | 1.00 | 25.40 | 1.13 | 28.58 | | | 1.53 | 38.86 | 1.63 | 41.40 | 1.75 | 44.45 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | | | 3.53 | 89.66 | | | | |
| | | C | | | | | | | | 4.53 | 115.06 | | | | |
| | 10 | STD. | | 1.13 | 28.58 | 1.25 | 31.75 | | | 1.53 | 38.86 | 1.63 | 41.40 | 1.90 | 48.26 |
| | | A | | | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | | | 3.53 | 89.66 | | | | |
| | | C | | | | | | | | 4.53 | 115.06 | | | | |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

# For Connector Family L

**38999 Series III, IV** Connector Family "L", includes MIL-DTL-38999 Series III and Series IV




**MIL Part Number**

**M85049 / 79 11 W 03**

- MIL Series
- Slash Sheet: 79: 90°, Spin Coupling; 78: 45°, Spin Coupling
- Shell Size: See Table-B
- Finish: See Table-2 (pg. 486)
- Clamp Size: See Table-B

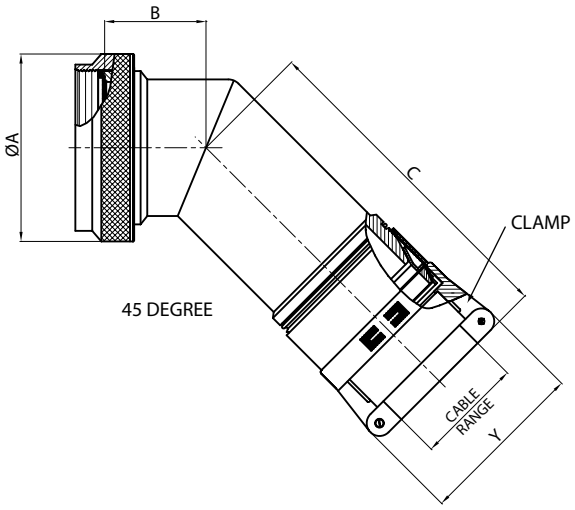



**TABLE – B**

| MIL PART NUMBER DESIGNATOR | | CONNECTOR SHELL SIZE/ CODE (REF.) | CABLE RANGE | | | | A DIA. (MAX) | | B (MAX) | | C (MAX) | | D (MAX) | | E (MAX) | | Y (MAX) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | MIN | | MAX | | | | | | | | | | | | | |
| CONNECTOR SHELL SIZE | CLAMP SIZE | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 9 | 01 | 09 / A | 0.06 | 1.57 | 0.13 | 3.18 | 0.75 | 19.05 | 0.46 | 11.68 | 3.15 | 80.01 | 0.69 | 17.53 | 3.46 | 87.88 | 0.80 | 20.32 |
| | 02 | | 0.13 | 3.18 | 0.25 | 6.35 | | | | | | | | | | | 1.00 | 25.40 |
| 11 | 01 | 11 / B | 0.06 | 1.57 | 0.13 | 3.18 | 0.85 | 21.59 | 0.52 | 13.21 | 3.21 | 81.53 | 0.78 | 19.81 | 3.58 | 90.93 | 0.80 | 20.32 |
| | 02 | | 0.13 | 3.18 | 0.25 | 6.35 | | | | | | | | | | | 1.00 | 25.40 |
| | 03 | | 0.25 | 6.35 | 0.38 | 9.53 | | | | | | | | | | | 1.10 | 27.94 |
| 13 | 02 | 13 / C | 0.13 | 3.18 | 0.25 | 6.35 | 1.00 | 25.40 | 0.58 | 14.73 | 3.27 | 83.06 | 0.80 | 20.32 | 3.60 | 91.44 | 1.00 | 25.40 |
| | 03 | | 0.25 | 6.35 | 0.38 | 9.53 | | | | | | | | | | | 1.10 | 27.94 |
| | 04 | | 0.38 | 9.53 | 0.50 | 12.70 | | | | | | | | | | | 1.20 | 30.48 |
| 15 | 02 | 15 / D | 0.13 | 3.18 | 0.25 | 6.35 | 1.15 | 29.21 | 0.65 | 16.51 | 3.36 | 85.34 | 0.88 | 22.35 | 3.67 | 93.22 | 1.00 | 25.40 |
| | 03 | | 0.25 | 6.35 | 0.38 | 9.53 | | | | | | | | | | | 1.10 | 27.94 |
| | 04 | | 0.38 | 9.53 | 0.50 | 12.70 | | | | | | | | | | | 1.20 | 30.48 |
| | 05 | | 0.50 | 12.70 | 0.63 | 15.88 | | | | | | | | | | | 1.25 | 31.75 |
| 17 | 02 | 17 / E | 0.13 | 3.18 | 0.25 | 6.35 | 1.25 | 31.75 | 0.74 | 18.80 | 3.47 | 88.14 | 0.93 | 23.62 | 3.76 | 95.50 | 1.00 | 25.40 |
| | 03 | | 0.25 | 6.35 | 0.38 | 9.53 | | | | | | | | | | | 1.10 | 27.94 |
| | 04 | | 0.38 | 9.53 | 0.50 | 12.70 | | | | | | | | | | | 1.20 | 30.48 |
| | 05 | | 0.50 | 12.70 | 0.63 | 15.88 | | | | | | | | | | | 1.25 | 31.75 |
| | 06 | | 0.63 | 15.88 | 0.75 | 19.05 | | | | | | | | | | | 1.40 | 35.56 |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE

# For Connector Family L

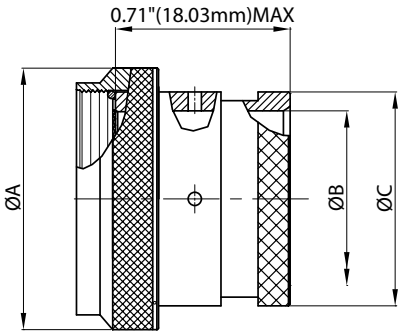
**38999 Series III, IV** Connector Family "L", includes MIL-DTL-38999 Series III and Series IV

| TABLE – B, cont. | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MIL PART NUMBER DESIGNATOR | | CONNECTOR SHELL SIZE/ CODE (REF.) | CABLE RANGE | | | | A DIA. (MAX) | | B (MAX) | | C (MAX) | | D (MAX) | | E (MAX) | | Y (MAX) | |
| CONNECTOR SHELL SIZE | CLAMP SIZE | | MIN | | MAX | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| | | | INCH | MM | INCH | MM | | | | | | | | | | | | |
| 19 | 03 | 19 / F | 0.25 | 6.35 | 0.38 | 9.53 | 1.40 | 35.56 | 0.93 | 23.62 | 3.66 | 92.96 | 1.01 | 25.65 | 3.93 | 99.82 | 1.10 | 27.94 |
| | 04 | | 0.38 | 9.53 | 0.50 | 12.70 | | | | | | | | | | | 1.20 | 30.48 |
| | 05 | | 0.50 | 12.70 | 0.63 | 15.88 | | | | | | | | | | | 1.25 | 31.75 |
| | 06 | | 0.63 | 15.88 | 0.75 | 19.05 | | | | | | | | | | | 1.40 | 35.56 |
| | 07 | | 0.75 | 19.05 | 0.88 | 22.23 | | | | | | | | | | | 1.50 | 38.10 |
| 21 | 03 | 21 / G | 0.25 | 6.35 | 0.38 | 9.53 | 1.55 | 39.37 | 0.93 | 23.62 | 3.66 | 92.96 | 1.06 | 26.92 | 3.93 | 99.82 | 1.10 | 27.94 |
| | 04 | | 0.38 | 9.53 | 0.50 | 12.70 | | | | | | | | | | | 1.20 | 30.48 |
| | 05 | | 0.50 | 12.70 | 0.63 | 15.88 | | | | | | | | | | | 1.25 | 31.75 |
| | 06 | | 0.63 | 15.88 | 0.75 | 19.05 | | | | | | | | | | | 1.40 | 35.56 |
| | 07 | | 0.75 | 19.05 | 0.88 | 22.23 | | | | | | | | | | | 1.50 | 38.10 |
| | 08 | | 0.88 | 22.23 | 1.00 | 25.40 | | | | | | | | | | | 1.65 | 41.91 |
| 23 | 03 | 23 / H | 0.25 | 6.35 | 0.38 | 9.53 | 1.65 | 41.91 | 1.02 | 25.91 | 3.81 | 96.77 | 1.17 | 29.72 | 4.04 | 102.62 | 1.10 | 27.94 |
| | 04 | | 0.38 | 9.53 | 0.50 | 12.70 | | | | | | | | | | | 1.20 | 30.48 |
| | 05 | | 0.50 | 12.70 | 0.63 | 15.88 | | | | | | | | | | | 1.25 | 31.75 |
| | 06 | | 0.63 | 15.88 | 0.75 | 19.05 | | | | | | | | | | | 1.40 | 35.56 |
| | 07 | | 0.75 | 19.05 | 0.88 | 22.23 | | | | | | | | | | | 1.50 | 38.10 |
| | 08 | | 0.88 | 22.23 | 1.00 | 25.40 | | | | | | | | | | | 1.65 | 41.91 |
| | 09 | | 1.00 | 25.40 | 1.13 | 28.58 | | | | | | | | | | | 1.75 | 44.45 |
| 25 | 04 | 25 / J | 0.38 | 9.53 | 0.50 | 12.70 | 1.85 | 46.99 | 1.02 | 25.91 | 3.81 | 96.77 | 1.18 | 29.97 | 4.04 | 102.62 | 1.20 | 30.48 |
| | 05 | | 0.50 | 12.70 | 0.63 | 15.88 | | | | | | | | | | | 1.25 | 31.75 |
| | 06 | | 0.63 | 15.88 | 0.75 | 19.05 | | | | | | | | | | | 1.40 | 35.56 |
| | 07 | | 0.75 | 19.05 | 0.88 | 22.23 | | | | | | | | | | | 1.50 | 38.10 |
| | 08 | | 0.88 | 22.23 | 1.00 | 25.40 | | | | | | | | | | | 1.65 | 41.91 |
| | 09 | | 1.00 | 25.40 | 1.13 | 28.58 | | | | | | | | | | | 1.75 | 44.45 |
| | 10 | | 1.13 | 28.58 | 1.25 | 31.75 | | | | | | | | | | | 1.90 | 48.26 |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

## For Connector Family L

**38999 Series III, IV** Connector Family "L", includes MIL-DTL-38999 Series III and Series IV




**MIL Part Number**

**M85049 / 69 -11 W D**

- MIL Series
- Slash Sheet: 69: Straight, Spin Coupling
- D: Drain hole Option
- Finish: See Table-2 (pg. 486)
- Shell Size: See Table-A

**TABLE-A**

| MIL PART NUMBER DESIGNATOR / CONNECTOR SHELL SIZE | CONNECTOR SHELL SIZE/ CODE (REF.) | A DIA. (MAX) | | B DIA. (MIN) | | C DIA. (MAX) | |
|---|---|---|---|---|---|---|---|
| | | INCH | MM | INCH | MM | INCH | MM |
| 9 | 09 / A | 0.75 | 19.05 | 0.25 | 6.35 | 0.53 | 13.54 |
| 11 | 11 / B | 0.85 | 21.59 | 0.38 | 9.53 | 0.61 | 15.37 |
| 13 | 13 / C | 1.00 | 25.40 | 0.50 | 12.70 | 0.77 | 19.66 |
| 15 | 15 / D | 1.15 | 29.21 | 0.63 | 15.88 | 0.84 | 21.29 |
| 17 | 17 / E | 1.25 | 31.75 | 0.75 | 19.05 | 0.94 | 23.77 |
| 19 | 19 / F | 1.40 | 35.56 | 0.81 | 20.62 | 1.04 | 26.47 |
| 21 | 21 / G | 1.55 | 39.37 | 0.94 | 23.80 | 1.22 | 30.91 |
| 23 | 23 / H | 1.65 | 41.91 | 1.06 | 26.97 | 1.36 | 34.42 |
| 25 | 25 / J | 1.85 | 46.99 | 1.19 | 30.18 | 1.44 | 36.65 |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

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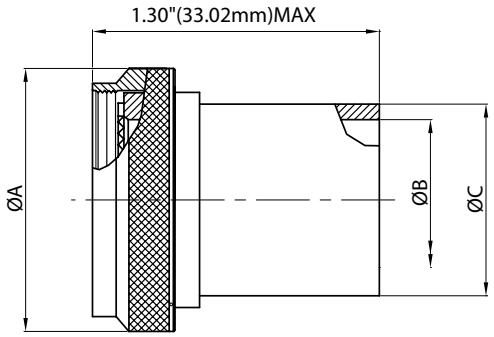
# For Connector Family L

**38999 Series III, IV** Connector Family "L", includes MIL-DTL-38999 Series III and Series IV




**MIL Part Number**

**M85049 / 20 -11 W**

- MIL Series
- Slash Sheet: 20: Straight, Spin Coupling Adapter without ring
- Finish: See Table-2 (pg. 486)
- Shell Size: See Table-A

Refer to page 544 for ordering details of Ring.

**TABLE – A**

| MIL PART NUMBER DESIGNATOR CONNECTOR SHELL SIZE | CONNECTOR SHELL SIZE/ CODE (REF.) | A DIA.(MAX) INCH | A DIA.(MAX) MM | B DIA.(MAX) INCH | B DIA.(MAX) MM | C DIA.(MAX) INCH | C DIA.(MAX) MM |
|---|---|---|---|---|---|---|---|
| 9 | 9 / A | 0.75 | 19.05 | 0.27 | 6.73 | 0.35 | 8.81 |
| 11 | 11 / B | 0.85 | 21.59 | 0.34 | 8.71 | 0.50 | 12.65 |
| 13 | 13 / C | 1.00 | 25.40 | 0.44 | 11.10 | 0.51 | 12.95 |
| 15 | 15 / D | 1.10 | 27.94 | 0.56 | 14.27 | 0.63 | 16.00 |
| 17 | 17 / E | 1.25 | 31.75 | 0.69 | 17.45 | 0.76 | 19.30 |
| 19 | 19 / F | 1.40 | 35.56 | 0.81 | 20.62 | 0.89 | 22.61 |
| 21 | 21 / G | 1.50 | 38.10 | 0.94 | 23.80 | 1.01 | 25.65 |
| 23 | 23 / H | 1.65 | 41.91 | 1.05 | 26.57 | 1.13 | 28.70 |
| 25 | 25 / J | 1.75 | 44.45 | 1.13 | 28.58 | 1.20 | 30.53 |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

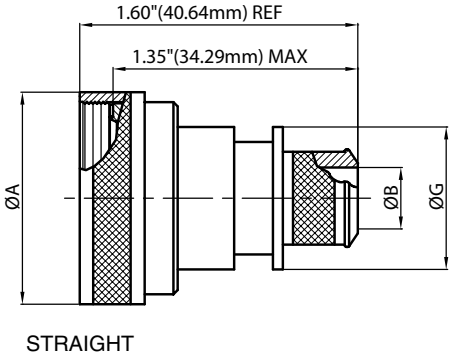
# Band Lock Adapter

## Straight, 90° and 45°, Self-Lock

## For Connector Family L



**38999 Series III, IV** Connector Family "L", includes MIL-DTL-38999 Series III and Series IV

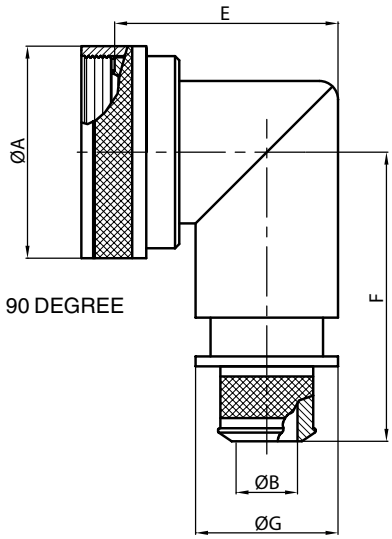



STRAIGHT

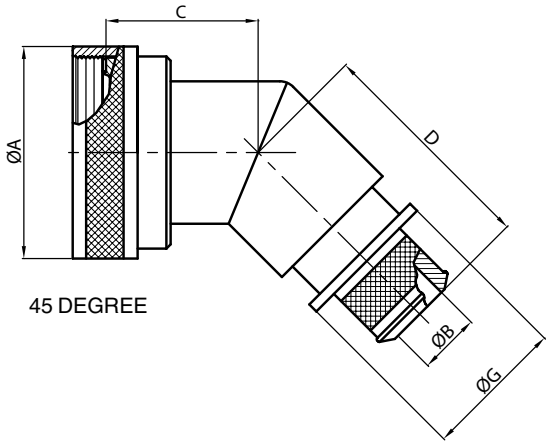
**MIL Part Number**

**M85049 / 88 -11 W 03**

- MIL Series
- Slash Sheet:
  - 88: Straight, Self-Lock
  - 90: 90°, Self-Lock
  - 89: 45°, Self-Lock
- Entry Size: See Table-A
- Finish: See Table-2 (pg. 486)
- Shell Size: See Table-A




90 DEGREE




45 DEGREE

**TABLE-A**

| MIL PART NUMBER DESIGNATOR | | CONNECTOR SHELL SIZE/ CODE (REF.) | A DIA. (MAX) | | B DIA. (MAX) | | C (MAX) | | D (MAX) | | E (MAX) | | F (MAX.) | | G MAX | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CONNECTOR SHELL SIZE | ENTRY SIZE | | | | +0.00 -0.02 | +0.00 -0.50 | | | | | | | | | | |
| | | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 9 | 02 | 09 / A | 0.86 | 21.82 | N/A | N/A | 1.01 | 25.65 | 1.16 | 29.46 | 1.38 | 34.93 | 1.42 | 35.99 | N/A | N/A |
| | 03 | | | | 0.26 | 6.60 | | | | | | | | | 0.56 | 14.22 |
| 11 | 02 | 11 / B | 0.99 | 25.04 | N/A | N/A | 1.03 | 26.16 | 1.19 | 30.23 | 1.44 | 36.50 | 1.48 | 37.59 | N/A | N/A |
| | 03 | | | | 0.32 | 8.13 | | | | | | | | | 0.63 | 16.00 |
| 13 | 02 | 13 / C | 1.16 | 29.36 | 0.32 | 8.13 | 1.06 | 26.92 | 1.21 | 30.73 | 1.56 | 39.67 | 1.55 | 39.45 | 0.63 | 16.00 |
| | 03 | | | | 0.45 | 11.43 | | | | | | | | | 0.75 | 19.05 |
| 15 | 02 | 15 / D | 1.28 | 32.54 | 0.45 | 11.43 | 1.08 | 27.43 | 1.24 | 31.50 | 1.69 | 42.85 | 1.61 | 41.00 | 0.75 | 19.05 |
| | 03 | | | | 0.57 | 14.48 | | | | | | | | | 0.89 | 22.61 |
| 17 | 02 | 17 / E | 1.41 | 35.71 | 0.51 | 12.95 | 1.11 | 28.19 | 1.26 | 32.00 | 1.75 | 44.45 | 1.68 | 42.62 | 0.82 | 20.83 |
| | 03 | | | | 0.64 | 16.26 | | | | | | | | | 0.95 | 24.13 |
| 19 | 02 | 19 / F | 1.52 | 38.51 | 0.64 | 16.26 | 1.12 | 28.45 | 1.27 | 32.26 | 1.88 | 47.63 | 1.77 | 45.03 | 0.95 | 24.13 |
| | 03 | | | | 0.76 | 19.30 | | | | | | | | | 1.07 | 27.18 |
| 21 | 02 | 21 / G | 1.64 | 41.68 | 0.64 | 16.26 | 1.15 | 29.21 | 1.30 | 33.02 | 1.94 | 49.23 | 1.80 | 45.62 | 0.95 | 24.13 |
| | 03 | | | | 0.82 | 20.83 | | | | | | | | | 1.13 | 28.07 |
| 23 | 02 | 23 / H | 1.77 | 44.86 | 0.70 | 17.78 | 1.17 | 29.72 | 1.33 | 33.78 | 2.06 | 52.37 | 1.86 | 47.22 | 1.02 | 25.99 |
| | 03 | | | | 0.95 | 24.13 | | | | | | | | | 1.26 | 32.00 |
| 25 | 02 | 25 / J | 1.89 | 48.03 | 0.76 | 19.30 | 1.20 | 30.48 | 1.35 | 34.29 | 2.13 | 53.98 | 1.92 | 48.74 | 1.07 | 27.18 |
| | 03 | | | | 1.01 | 25.65 | | | | | | | | | 1.32 | 33.53 |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

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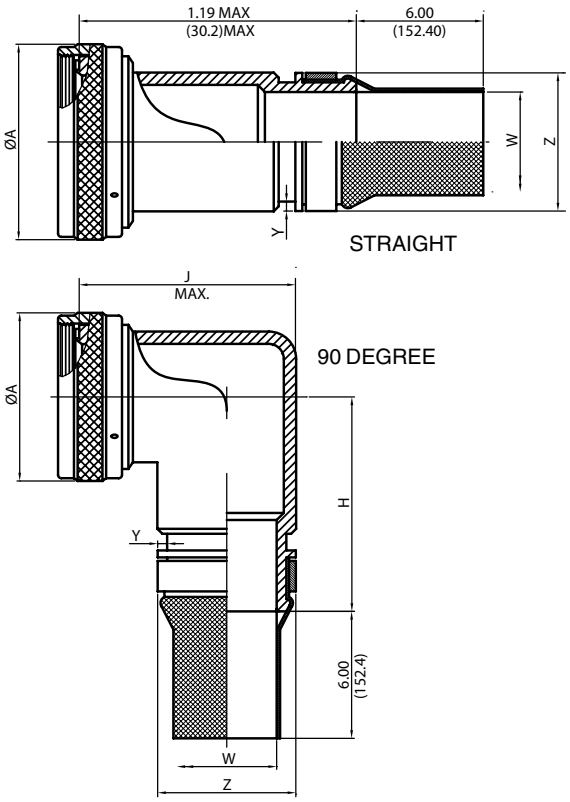
# For Connector Family L

**38999 Series III, IV**

Connector Family "L", includes MIL-DTL-38999 Series III and Series IV




**MIL Part Number**

**M85049 / 115 – 11 T W 03 -6 D**

- MIL Series
- Slash Sheet: 115: Straight; 117: 90°
- Coupling: –: Spin Coupling; S: Self-Lock
- Shell Size: See Table-A
- Shield Finish: (Material: Copper) K: Nickel T: Tin
- Finish: See Table-2 (pg. 486)
- Entry Size: See Table-A & B
- Shield Length: 6 inches min. 18 inches max. 1 inch increments 6: 6 inch, 7: 7 inch, so on
- Drain Hole Option

**TABLE – A**

| PART NUMBER DESIGNATOR | | | CONNECTOR SHELL SIZE/ CODE (REF.) | A DIA.(MAX) | | H (MAX) | | J (MAX) | |
|---|---|---|---|---|---|---|---|---|---|
| SHELL SIZE-MIL | ALLOWABLE ENTRY SIZE MIN | ALLOWABLE ENTRY SIZE MAX | | INCH | MM | INCH | MM | INCH | MM |
| 09 | - | 01 | 9 / A | 0.860 | 21.84 | 1.73 | 43.94 | 0.88 | 22.35 |
| 11 | 01 | 03 | 11 / B | 0.980 | 24.89 | 1.85 | 46.99 | 1.00 | 25.40 |
| 13 | 01 | 05 | 13 / C | 1.160 | 29.46 | 1.87 | 47.50 | 1.13 | 28.70 |
| 15 | 03 | 07 | 15 / D | 1.280 | 32.51 | 1.94 | 49.28 | 1.31 | 33.27 |
| 17 | 05 | 09 | 17 / E | 1.410 | 35.81 | 2.03 | 51.56 | 1.50 | 38.10 |
| 19 | 06 | 10 | 19 / F | 1.520 | 38.61 | 2.20 | 55.88 | 1.75 | 44.45 |
| 21 | 08 | 12 | 21 / G | 1.640 | 41.66 | 2.20 | 55.88 | 1.75 | 44.45 |
| 23 | 09 | 13 | 23 / H | 1.770 | 44.96 | 2.31 | 58.67 | 2.00 | 50.80 |
| 25 | 10 | 14 | 25 / J | 1.890 | 48.01 | 2.31 | 58.67 | 2.00 | 50.80 |

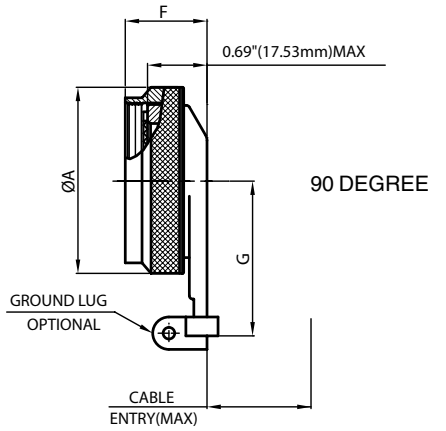
Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

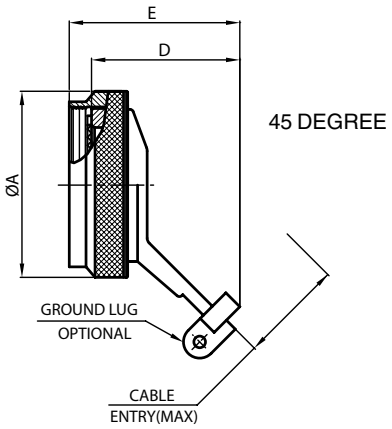
**TABLE – B**

| ENTRY SIZE | W ±0.020 | W ±0.508 | Y +0.008 -0.000 | Y +0.200 -0.000 | Z MAX | Z MAX |
|---|---|---|---|---|---|---|
| | INCH | MM | INCH | MM | INCH | MM |
| 01 | 0.250 | 6.350 | 0.044 | 1.12 | 0.56 | 14.22 |
| 02 | 0.312 | 7.920 | 0.044 | 1.12 | 0.63 | 16.00 |
| 03 | 0.375 | 9.530 | 0.044 | 1.12 | 0.69 | 17.53 |
| 04 | 0.438 | 11.130 | 0.044 | 1.12 | 0.75 | 19.05 |
| 05 | 0.500 | 12.700 | 0.044 | 1.12 | 0.82 | 20.83 |
| 06 | 0.562 | 14.270 | 0.044 | 1.12 | 0.89 | 22.61 |
| 07 | 0.625 | 15.880 | 0.044 | 1.12 | 0.95 | 24.13 |
| 08 | 0.688 | 17.480 | 0.044 | 1.12 | 1.02 | 25.91 |
| 09 | 0.750 | 19.050 | 0.069 | 1.75 | 1.07 | 27.18 |
| 10 | 0.812 | 20.620 | 0.069 | 1.75 | 1.13 | 28.70 |
| 11 | 0.875 | 22.230 | 0.069 | 1.75 | 1.19 | 30.23 |
| 12 | 0.938 | 23.830 | 0.069 | 1.75 | 1.26 | 32.00 |
| 13 | 1.000 | 25.400 | 0.069 | 1.75 | 1.32 | 33.53 |
| 14 | 1.125 | 28.575 | 0.069 | 1.75 | 1.47 | 37.34 |

# For Connector Family L

**38999 Series III, IV** Connector Family "L", includes MIL-DTL-38999 Series III and Series IV




**MIL Part Number**

**M85049 / 16 – 11 W**

- MIL Series
- Slash Sheet: 16: 90° 15: 45°
- Finish: See Table-2 (pg. 486)
- Shell Size: See Table-A
- Coupling: S: Self-Lock G: Self-Lock with grounding Lug –: Non Self-Lock

**TABLE – A**

| MIL PART NUMBER DESIGNATOR / CONNECTOR SHELL SIZE | CONNECTOR SHELL SIZE/ CODE (REF.) | A DIA.(MAX) | | D (MAX) | | E (MAX) | | F (MAX) | | G (MAX) | | CABLE ENTRY MAX | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 9 | 9 / A | 0.86 | 21.79 | 1.03 | 26.16 | 1.43 | 36.32 | 0.99 | 25.15 | 1.22 | 30.99 | 0.26 | 6.71 |
| 11 | 11 / B | 0.98 | 24.99 | 1.03 | 26.16 | 1.43 | 36.32 | 0.99 | 25.15 | 1.29 | 32.77 | 0.39 | 9.96 |
| 13 | 13 / C | 1.16 | 29.39 | 1.03 | 26.16 | 1.43 | 36.32 | 0.99 | 25.15 | 1.62 | 41.15 | 0.51 | 12.85 |
| 15 | 15 / D | 1.28 | 32.49 | 1.09 | 27.69 | 1.93 | 49.02 | 0.99 | 25.15 | 1.66 | 42.16 | 0.63 | 16.03 |
| 17 | 17 / E | 1.41 | 35.71 | 1.11 | 28.19 | 1.93 | 49.02 | 0.99 | 25.15 | 1.72 | 43.69 | 0.76 | 19.20 |
| 19 | 19 / F | 1.52 | 38.51 | 1.21 | 30.73 | 2.03 | 51.56 | 0.99 | 25.15 | 1.72 | 43.69 | 0.85 | 21.46 |
| 21 | 21 / G | 1.64 | 41.71 | 1.26 | 32.00 | 2.09 | 53.09 | 0.99 | 25.15 | 1.79 | 45.47 | 0.97 | 24.64 |
| 23 | 23 / H | 1.77 | 44.91 | 1.30 | 33.02 | 2.09 | 53.09 | 0.99 | 25.15 | 1.85 | 46.99 | 1.10 | 27.81 |
| 25 | 25 / J | 1.89 | 47.98 | 1.34 | 34.04 | 2.24 | 56.90 | 0.99 | 25.15 | 1.91 | 48.51 | 1.22 | 30.99 |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

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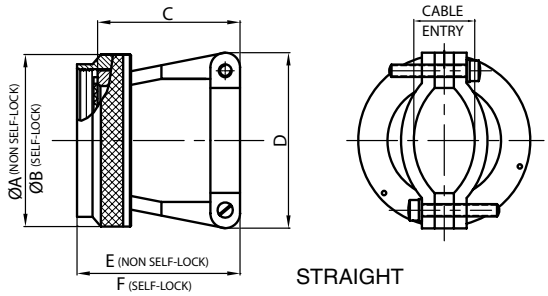
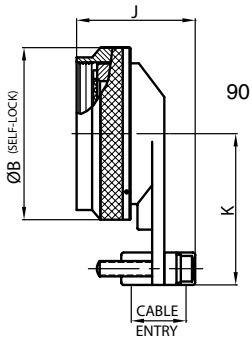
# For Connector Family L

**38999 Series III, IV**

Connector Family "L", includes MIL-DTL-38999 Series III and Series IV




STRAIGHT




90 DEGREE

**MIL Part Number**

**M85049 / 38 – 11 W**

- MIL Series
- Slash Sheet: 38: Straight 39: 90°
- Finish: See Table-2 (pg. 486)
- Shell Size: See Table-A
- Coupling: S: Self-Lock –: Non Self-Lock

**TABLE – A**

| MIL PART NUMBER DESIGNATOR / CONNECTOR SHELL SIZE | CONNECTOR SHELL SIZE/ CODE (REF.) | A DIA.(MAX) | | B DIA.(MAX) | | C (MAX) | | D (MAX) | | E (MAX) | | F (MAX) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 09 | 9 / A | 0.75 | 19.05 | 0.86 | 21.82 | 0.91 | 23.11 | 0.85 | 21.59 | 1.10 | 27.94 | 1.21 | 30.73 |
| 11 | 11 / B | 0.85 | 21.59 | 0.98 | 24.99 | 0.91 | 23.11 | 0.90 | 22.86 | 1.10 | 27.94 | 1.21 | 30.73 |
| 13 | 13 / C | 1.00 | 25.40 | 1.16 | 29.36 | 1.01 | 25.65 | 1.10 | 27.94 | 1.20 | 30.48 | 1.31 | 33.27 |
| 15 | 15 / D | 1.10 | 27.94 | 1.28 | 32.54 | 1.06 | 26.92 | 1.15 | 29.21 | 1.25 | 31.75 | 1.35 | 34.29 |
| 17 | 17 / E | 1.25 | 31.75 | 1.41 | 35.71 | 1.16 | 29.46 | 1.30 | 33.02 | 1.36 | 34.44 | 1.45 | 36.83 |
| 19 | 19 / F | 1.40 | 35.56 | 1.52 | 38.51 | 1.41 | 35.81 | 1.50 | 38.10 | 1.60 | 40.64 | 1.71 | 43.43 |
| 21 | 21 / G | 1.50 | 38.10 | 1.64 | 41.68 | 1.51 | 38.35 | 1.60 | 40.64 | 1.70 | 43.21 | 1.81 | 45.97 |
| 23 | 23 / H | 1.65 | 41.91 | 1.77 | 44.86 | 1.66 | 42.16 | 1.70 | 43.18 | 1.85 | 46.99 | 1.95 | 49.53 |
| 25 | 25 / J | 1.75 | 44.45 | 1.89 | 48.03 | 1.76 | 44.70 | 1.80 | 45.72 | 1.95 | 49.56 | 2.05 | 52.07 |

**TABLE – A, cont.**

| MIL PART NUMBER DESIGNATOR / CONNECTOR SHELL SIZE | CONNECTOR SHELL SIZE/ CODE (REF.) | J (MAX) | | K (MAX) | | CABLE ENTRY | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | MIN | | MAX | |
| | | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 9 | 9 / A | 1.31 | 33.27 | 1.00 | 25.40 | 0.10 | 2.49 | 0.23 | 5.94 |
| 11 | 11 / B | 1.31 | 33.27 | 1.10 | 27.94 | 0.15 | 3.89 | 0.23 | 5.94 |
| 13 | 13 / C | 1.51 | 38.35 | 1.10 | 27.94 | 0.19 | 4.83 | 0.33 | 8.33 |
| 15 | 15 / D | 1.55 | 39.37 | 1.25 | 31.75 | 0.26 | 6.60 | 0.46 | 11.61 |
| 17 | 17 / E | 1.71 | 43.43 | 1.30 | 33.02 | 0.28 | 7.19 | 0.61 | 15.60 |
| 19 | 19 / F | 1.81 | 45.97 | 1.35 | 34.29 | 0.33 | 8.26 | 0.63 | 16.10 |
| 21 | 21 / G | 1.95 | 49.53 | 1.60 | 40.64 | 0.34 | 8.71 | 0.70 | 17.73 |
| 23 | 23 / H | 2.10 | 53.34 | 1.75 | 44.45 | 0.38 | 9.68 | 0.82 | 20.90 |
| 25 | 25 / J | 2.21 | 56.13 | 1.85 | 46.99 | 0.42 | 10.62 | 0.85 | 21.67 |

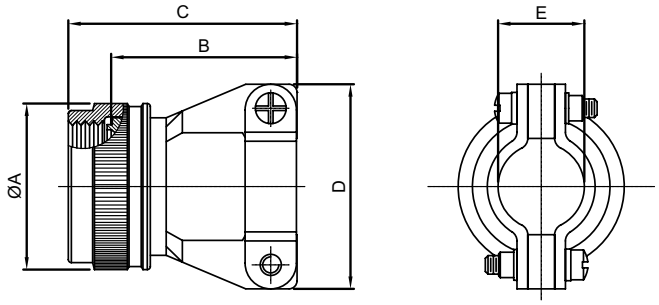
Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

# Strain Relief Clamp

## Straight, Self-Lock/Non Self-Lock

## For Connector Family L

**38999 Series III, IV** Connector Family "L", includes MIL-DTL-38999 Series III and Series IV




**MIL Part Number**

**M85049 / 124 – 11 W**

- MIL Series
- Slash Sheet: 124: Straight
- Finish: See Table-2 (pg. 486)
- Shell Size: See Table-A
- Coupling: S: Self-Lock –: Non Self-Lock

**TABLE – A**

| MIL PART NUMBER DESIGNATOR | CONNECTOR SHELL SIZE/ CODE (REF.) | A DIA.(MAX) | | B LENGTH | | C (MAX) | | D (MAX) | | E (CLOSED) ±.031 | E (CLOSED) ±.787 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CONNECTOR SHELL SIZE | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 09 | 9 / A | 0.86 | 21.79 | 0.77/0.51 | 19.56/12.95 | 1.01 | 25.65 | 0.88 | 22.35 | 0.22 | 5.56 |
| 11 | 11 / B | 0.98 | 24.99 | 0.89/0.64 | 22.61/16.26 | 1.13 | 28.70 | 0.94 | 23.88 | 0.26 | 6.71 |
| 13 | 13 / C | 1.16 | 29.39 | 1.01/0.76 | 25.65/19.30 | 1.25 | 31.75 | 1.12 | 28.45 | 0.34 | 8.74 |
| 15 | 15 / D | 1.28 | 32.49 | 1.01/0.76 | 25.65/19.30 | 1.25 | 31.75 | 1.19 | 30.23 | 0.46 | 11.68 |
| 17 | 17 / E | 1.41 | 35.71 | 1.13/0.88 | 28.70/22.35 | 1.37 | 34.80 | 1.44 | 36.58 | 0.55 | 13.84 |
| 19 | 19 / F | 1.52 | 38.51 | 1.38/1.13 | 35.05/28.70 | 1.62 | 41.15 | 1.56 | 39.62 | 0.62 | 15.62 |
| 21 | 21 / G | 1.64 | 41.71 | 1.51/1.25 | 38.35/31.75 | 1.75 | 44.45 | 1.69 | 42.93 | 0.69 | 17.53 |
| 23 | 23 / H | 1.77 | 44.91 | 1.62/1.38 | 41.15/35.05 | 1.87 | 47.50 | 1.75 | 44.45 | 0.78 | 19.81 |
| 25 | 25 / J | 1.87 | 47.47 | 1.76/1.51 | 44.70/38.35 | 2.00 | 50.80 | 1.88 | 47.75 | 0.85 | 21.59 |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

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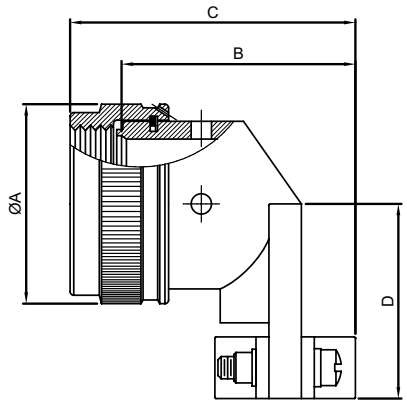
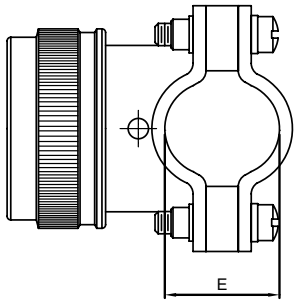
# For Connector Family L

**38999 Series III, IV** Connector Family "L", includes MIL-DTL-38999 Series III and Series IV




**MIL Part Number**

**M85049 / 126 – 11 W**

- MIL Series
- Slash Sheet: 126: 90°
- Finish: See Table-2 (pg. 486)
- Shell Size: See Table-A
- Coupling: S: Self-Lock –: Non Self-Lock

**TABLE – A**

| MIL PART NUMBER DESIGNATOR / CONNECTOR SHELL SIZE | CONNECTOR SHELL SIZE/ CODE (REF.) | A DIA.(MAX) | | B (MAX) | | C (MAX) | | D (MAX) | | E (CLOSED) ±.031 | E (CLOSED) ±.787 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 09 | 9 / A | 0.86 | 21.79 | 0.86 | 21.84 | 1.14 | 28.96 | 0.81 | 20.57 | 0.22 | 5.56 |
| 11 | 11 / B | 0.98 | 24.99 | 0.94 | 23.88 | 1.22 | 30.99 | 0.87 | 22.10 | 0.26 | 6.71 |
| 13 | 13 / C | 1.16 | 29.39 | 1.14 | 28.96 | 1.42 | 36.07 | 0.93 | 23.62 | 0.34 | 8.74 |
| 15 | 15 / D | 1.28 | 32.49 | 1.20 | 30.48 | 1.48 | 37.59 | 0.99 | 25.15 | 0.46 | 11.68 |
| 17 | 17 / E | 1.41 | 35.71 | 1.34 | 34.04 | 1.62 | 41.15 | 1.09 | 27.69 | 0.55 | 13.84 |
| 19 | 19 / F | 1.52 | 38.51 | 1.46 | 37.08 | 1.74 | 44.20 | 1.23 | 31.24 | 0.62 | 15.62 |
| 21 | 21 / G | 1.64 | 41.71 | 1.58 | 40.13 | 1.86 | 47.24 | 1.30 | 33.02 | 0.70 | 17.73 |
| 23 | 23 / H | 1.77 | 44.91 | 1.71 | 43.43 | 1.99 | 50.55 | 1.36 | 34.54 | 0.78 | 19.81 |
| 25 | 25 / J | 1.87 | 47.47 | 1.83 | 46.48 | 2.11 | 53.59 | 1.42 | 36.07 | 0.85 | 21.59 |

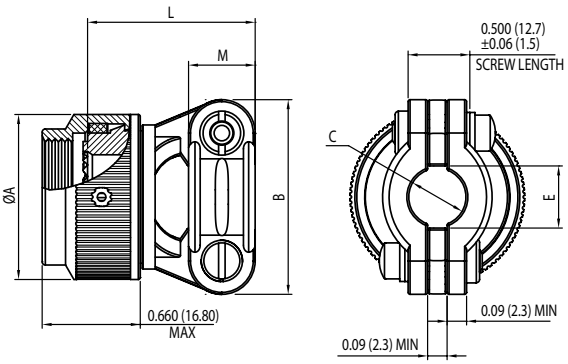
Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

# Composite Strain Relief Clamp

## Straight, Spin Coupling, Self-Lock

## For Connector Family L

**38999 Series III, IV** Connector Family "L", includes MIL-DTL-38999 Series III and Series IV




**MIL Part Number**

**BS1 S R L 10 99 9 X T**

- Series:
- Angle: S: Straight
- Coupling: R: Spin; S: Self-Lock
- Connector Group: MIL-DTL-38999 Series III & IV
- Shell Size: See Table-A
- Entry Size: 99: For standard entry size in Table-A
- Length: 9: For standard length in Table-A
- Constant: X
- Material & Finish: T: Composite, without plating; J: Composite, Cadmium Olive Drab; M: Composite, Electroless Nickel

**TABLE – A**

| MIL PART NUMBER DESIGNATOR / CONNECTOR SHELL SIZE | CONNECTOR SHELL SIZE/ CODE (REF.) | A DIA.(MAX) | | B (MAX) | | C (MAX) ±0.031 | C (MAX) ±0.78 | E (MIN) | | L (MAX) | | M ±.0.03 | M ±0.76 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 08 | 9 / A | 0.858 | 21.79 | 0.980 | 24.89 | 0.219 | 5.56 | 0.229 | 5.82 | 0.840 | 21.34 | 0.375 | 9.53 |
| 10 | 11 / B | 0.984 | 24.99 | 1.05 | 26.67 | 0.264 | 6.71 | 0.274 | 6.96 | 0.960 | 24.38 | 0.375 | 9.53 |
| 12 | 13 / C | 1.157 | 29.39 | 1.20 | 30.48 | 0.344 | 8.74 | 0.354 | 8.99 | 1.100 | 27.94 | 0.406 | 10.31 |
| 14 | 15 / D | 1.280 | 32.51 | 1.30 | 33.02 | 0.460 | 11.68 | 0.470 | 11.94 | 1.100 | 27.94 | 0.406 | 10.31 |
| 16 | 17 / E | 1.406 | 35.71 | 1.42 | 36.07 | 0.545 | 13.84 | 0.555 | 14.10 | 1.230 | 31.24 | 0.406 | 10.31 |
| 18 | 19 / F | 1.516 | 38.51 | 1.52 | 38.61 | 0.615 | 15.62 | 0.625 | 15.88 | 1.410 | 35.81 | 0.406 | 10.31 |
| 20 | 21 / G | 1.642 | 41.71 | 1.64 | 41.66 | 0.698 | 17.73 | 0.708 | 17.98 | 1.510 | 38.35 | 0.406 | 10.31 |
| 22 | 23 / H | 1.768 | 44.91 | 1.77 | 44.96 | 0.780 | 19.81 | 0.790 | 20.07 | 1.660 | 42.16 | 0.406 | 10.31 |
| 24 | 25 / J | 1.890 | 48.01 | 1.89 | 48.01 | 0.850 | 21.59 | 0.860 | 21.84 | 1.760 | 44.70 | 0.406 | 10.31 |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

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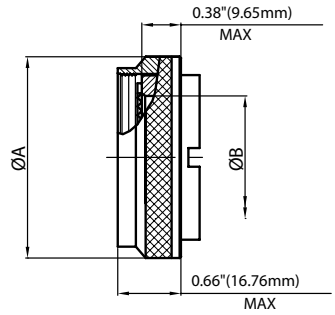
# For Connector Family L

**38999 Series III, IV** Connector Family "L", includes MIL-DTL-38999 Series III and Series IV




**MIL Part Number**

**M85049 / 14 – 11 W**

- MIL Series
- Slash Sheet: 14: Straight
- Shell Size: See Table-A
- Finish: See Table-2 (pg. 486)
- Coupling: S: Self-Lock –: Non Self-Lock

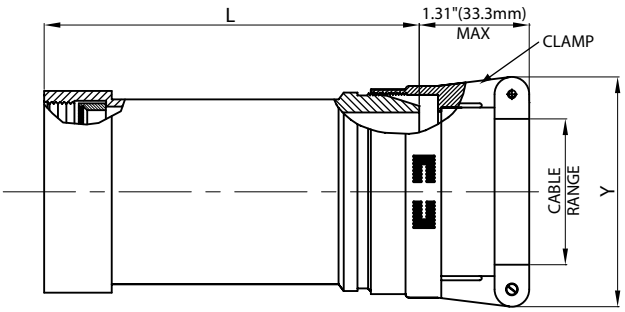
Note: * Slot shown in figure is optional for Non Self-Lock

| TABLE – A | | | | | |
|---|---|---|---|---|---|
| MIL PART NUMBER DESIGNATOR CONNECTOR SHELL SIZE | CONNECTOR SHELL SIZE/ CODE (REF.) | A DIA.(MAX) | | B (MAX) | |
| | | INCH | MM | INCH | MM |
| 9 | 09 / A | 0.86 | 21.79 | 0.26 | 6.71 |
| 11 | 11 / B | 0.98 | 24.99 | 0.39 | 9.91 |
| 13 | 13 / C | 1.16 | 29.39 | 0.50 | 12.80 |
| 15 | 15 / D | 1.28 | 32.49 | 0.63 | 16.00 |
| 17 | 17 / E | 1.41 | 35.71 | 0.76 | 19.20 |
| 19 | 19 / F | 1.52 | 38.51 | 0.84 | 21.41 |
| 21 | 21 / G | 1.64 | 41.71 | 0.97 | 24.64 |
| 23 | 23 / H | 1.77 | 44.91 | 1.09 | 27.71 |
| 25 | 25 / J | 1.87 | 47.98 | 1.22 | 30.91 |

All dimensions for reference only.

# For Connector Family K

**38999 Series II** **38999 Series I** Connector Family "K", includes MIL-DTL-38999 Series II and Series I




**MIL Part Number**

**M85049 / 29 10 W 06 A**

- MIL Series
- Slash Sheet: 29: Straight, Direct Coupling
- Shell Size: See Table-A
- Finish: See Table- 2 (pg. 486)
- Clamp Size: See Table-A
- Length: See Table-A (Omit for "STD")

**TABLE A**

| MIL PART NUMBER DESIGNATOR | | | CONNECTOR SHELL SIZE SE – II / I | CABLE RANGE | | | | L (MAX) | | Y (MAX) | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | MIN | | MAX | | | | | |
| ACCESSORY SHELL SIZE | CLAMP SIZE | LENGTH | | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 08 | 01 | STD. | 8 / 9 | 0.06 | 1.57 | 0.13 | 3.18 | 1.03 | 26.16 | 0.78 | 19.81 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | 02 | STD. | | 0.13 | 3.18 | 0.25 | 6.35 | 1.03 | 26.16 | 0.97 | 24.64 |
| | | A | | | | | | 2.03 | 51.56 | | |
| 10 | 01 | STD. | 10 / 11 | 0.06 | 1.57 | 0.13 | 3.18 | 1.03 | 26.16 | 0.78 | 19.81 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | 02 | STD. | | 0.13 | 3.18 | 0.25 | 6.35 | 1.03 | 26.16 | 0.97 | 24.64 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | 03 | STD. | | 0.25 | 6.35 | 0.38 | 9.53 | 1.03 | 26.16 | 1.06 | 26.92 |
| | | A | | | | | | 2.03 | 51.56 | | |
| 12 | 02 | STD. | 12 / 13 | 0.13 | 3.18 | 0.25 | 6.35 | 1.03 | 26.16 | 0.97 | 24.64 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | 03 | STD. | | 0.25 | 6.35 | 0.38 | 9.53 | 1.03 | 26.16 | 1.06 | 26.92 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | 04 | STD. | | 0.31 | 7.92 | 0.50 | 12.70 | 1.03 | 26.16 | 1.16 | 29.46 |
| | | A | | | | | | 2.03 | 51.56 | | |
| 14 | 02 | STD. | 14 / 15 | 0.13 | 3.18 | 0.25 | 6.35 | 1.03 | 26.16 | 0.97 | 24.64 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | | B | | | | | | 3.03 | 76.96 | | |
| | 03 | STD. | | 0.25 | 6.35 | 0.38 | 9.53 | 1.03 | 26.16 | 1.06 | 26.92 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | | B | | | | | | 3.03 | 76.96 | | |
| | 04 | STD. | | 0.31 | 7.92 | 0.50 | 12.70 | 1.03 | 26.16 | 1.16 | 29.46 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | | B | | | | | | 3.03 | 76.96 | | |
| | 05 | STD. | | 0.44 | 11.10 | 0.63 | 15.88 | 1.03 | 26.16 | 1.25 | 31.75 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | | B | | | | | | 3.03 | 76.96 | | |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE

# For Connector Family K

**38999 Series II** **38999 Series I** Connector Family "K", includes MIL-DTL-38999 Series II and Series I

**TABLE A**

| MIL PART NUMBER DESIGNATOR | | | CONNECTOR SHELL SIZE SE – II / I | CABLE RANGE | | | | L (MAX) | | Y (MAX) | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | MIN | | MAX | | | | | |
| ACCESSORY SHELL SIZE | CLAMP SIZE | LENGTH | | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 16 | 02 | STD. | 16 / 17 | 0.13 | 3.18 | 0.25 | 6.35 | 1.03 | 26.16 | 0.97 | 24.64 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | | B | | | | | | 3.03 | 76.96 | | |
| | 03 | STD. | | 0.25 | 6.35 | 0.38 | 9.53 | 1.03 | 26.16 | 1.06 | 26.92 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | | B | | | | | | 3.03 | 76.96 | | |
| | 04 | STD. | | 0.31 | 7.92 | 0.50 | 12.70 | 1.03 | 26.16 | 1.16 | 29.46 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | | B | | | | | | 3.03 | 76.96 | | |
| | 05 | STD. | | 0.44 | 11.10 | 0.63 | 15.88 | 1.03 | 26.16 | 1.25 | 31.75 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | | B | | | | | | 3.03 | 76.96 | | |
| | 06 | STD. | | 0.56 | 14.27 | 0.75 | 19.05 | 1.03 | 26.16 | 1.38 | 35.05 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | | B | | | | | | 3.03 | 76.96 | | |
| 18 | 03 | STD. | 18 / 19 | 0.25 | 6.35 | 0.38 | 9.53 | 1.03 | 26.16 | 1.06 | 26.92 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | | B | | | | | | 3.03 | 76.96 | | |
| | 04 | STD. | | 0.31 | 7.92 | 0.50 | 12.70 | 1.03 | 26.16 | 1.16 | 29.46 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | | B | | | | | | 3.03 | 76.96 | | |
| | 05 | STD. | | 0.44 | 11.10 | 0.63 | 15.88 | 1.03 | 26.16 | 1.25 | 31.75 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | | B | | | | | | 3.03 | 76.96 | | |
| | 06 | STD. | | 0.56 | 14.27 | 0.75 | 19.05 | 1.03 | 26.16 | 1.38 | 35.05 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | | B | | | | | | 3.03 | 76.96 | | |
| | 07 | STD. | | 0.69 | 17.45 | 0.88 | 22.23 | 1.03 | 26.16 | 1.50 | 38.10 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | | B | | | | | | 3.03 | 76.96 | | |
| 20 | 03 | STD. | 20 / 21 | 0.25 | 6.35 | 0.38 | 9.53 | 1.03 | 26.16 | 1.06 | 26.92 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | | B | | | | | | 3.03 | 76.96 | | |
| | | C | | | | | | 4.03 | 102.36 | | |
| | 04 | STD. | | 0.31 | 7.92 | 0.50 | 12.70 | 1.03 | 26.16 | 1.16 | 29.46 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | | B | | | | | | 3.03 | 76.96 | | |
| | | C | | | | | | 4.03 | 102.36 | | |
| | 05 | STD. | | 0.44 | 11.10 | 0.63 | 15.88 | 1.03 | 26.16 | 1.25 | 31.75 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | | B | | | | | | 3.03 | 76.96 | | |
| | | C | | | | | | 4.03 | 102.36 | | |
| | 06 | STD. | | 0.56 | 14.27 | 0.75 | 19.05 | 1.03 | 26.16 | 1.38 | 35.05 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | | B | | | | | | 3.03 | 76.96 | | |
| | | C | | | | | | 4.03 | 102.36 | | |
| | 07 | STD. | | 0.69 | 17.45 | 0.88 | 22.23 | 1.03 | 26.16 | 1.50 | 38.10 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | | B | | | | | | 3.03 | 76.96 | | |
| | | C | | | | | | 4.03 | 102.36 | | |
| | 08 | STD. | | 0.81 | 20.62 | 1.00 | 25.40 | 1.03 | 26.16 | 1.63 | 41.40 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | | B | | | | | | 3.03 | 76.96 | | |
| | | C | | | | | | 4.03 | 102.36 | | |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE

## For Connector Family K

**38999 Series II** **38999 Series I**

Connector Family "K", includes MIL-DTL-38999 Series II and Series I

**TABLE A**

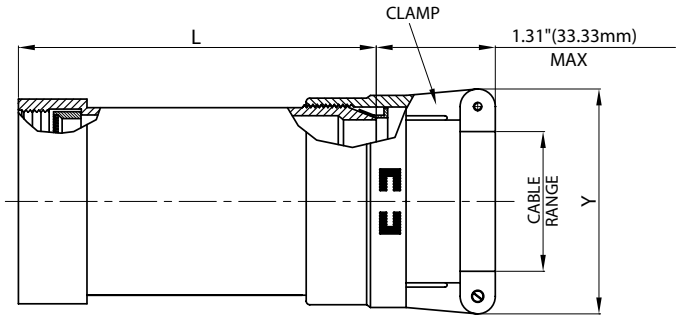
| MIL PART NUMBER DESIGNATOR | | | CONNECTOR SHELL SIZE SE – II / I | CABLE RANGE | | | | L (MAX) | | Y (MAX) | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | MIN | | MAX | | | | | |
| ACCESSORY SHELL SIZE | CLAMP SIZE | LENGTH | | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 22 | 03 | STD. | 22 /23 | 0.25 | 6.35 | 0.38 | 9.53 | 1.03 | 26.16 | 1.06 | 26.92 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | | B | | | | | | 3.03 | 76.96 | | |
| | | C | | | | | | 4.03 | 102.36 | | |
| | 04 | STD. | | 0.31 | 7.92 | 0.50 | 12.70 | 1.03 | 26.16 | 1.16 | 29.46 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | | B | | | | | | 3.03 | 76.96 | | |
| | | C | | | | | | 4.03 | 102.36 | | |
| | 05 | STD. | | 0.44 | 11.10 | 0.63 | 15.88 | 1.03 | 26.16 | 1.25 | 31.75 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | | B | | | | | | 3.03 | 76.96 | | |
| | | C | | | | | | 4.03 | 102.36 | | |
| | 06 | STD. | | 0.56 | 14.27 | 0.75 | 19.05 | 1.03 | 26.16 | 1.38 | 35.05 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | | B | | | | | | 3.03 | 76.96 | | |
| | | C | | | | | | 4.03 | 102.36 | | |
| | 07 | STD. | | 0.69 | 17.45 | 0.88 | 22.23 | 1.03 | 26.16 | 1.50 | 38.10 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | | B | | | | | | 3.03 | 76.96 | | |
| | | C | | | | | | 4.03 | 102.36 | | |
| | 08 | STD. | | 0.81 | 20.62 | 1.00 | 25.40 | 1.03 | 26.16 | 1.63 | 41.40 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | | B | | | | | | 3.03 | 76.96 | | |
| | | C | | | | | | 4.03 | 102.36 | | |
| | 09 | STD. | | 0.94 | 23.80 | 1.13 | 28.58 | 1.03 | 26.16 | 1.75 | 44.45 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | | B | | | | | | 3.03 | 76.96 | | |
| | | C | | | | | | 4.03 | 102.36 | | |
| 24 | 04 | STD. | 24 / 25 | 0.31 | 7.92 | 0.50 | 12.70 | 1.03 | 26.16 | 1.16 | 29.46 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | | B | | | | | | 3.03 | 76.96 | | |
| | | C | | | | | | 4.03 | 102.36 | | |
| | 05 | STD. | | 0.44 | 11.10 | 0.63 | 15.88 | 1.03 | 26.16 | 1.25 | 31.75 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | | B | | | | | | 3.03 | 76.96 | | |
| | | C | | | | | | 4.03 | 102.36 | | |
| | 06 | STD. | | 0.56 | 14.27 | 0.75 | 19.05 | 1.03 | 26.16 | 1.38 | 35.05 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | | B | | | | | | 3.03 | 76.96 | | |
| | | C | | | | | | 4.03 | 102.36 | | |
| | 07 | STD. | | 0.69 | 17.45 | 0.88 | 22.23 | 1.03 | 26.16 | 1.50 | 38.10 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | | B | | | | | | 3.03 | 76.96 | | |
| | | C | | | | | | 4.03 | 102.36 | | |
| | 08 | STD. | | 0.81 | 20.62 | 1.00 | 25.40 | 1.03 | 26.16 | 1.63 | 41.40 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | | B | | | | | | 3.03 | 76.96 | | |
| | | C | | | | | | 4.03 | 102.36 | | |
| | 09 | STD. | | 0.94 | 23.80 | 1.13 | 28.58 | 1.03 | 26.16 | 1.75 | 44.45 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | | B | | | | | | 3.03 | 76.96 | | |
| | | C | | | | | | 4.03 | 102.36 | | |
| | 10 | STD. | | 1.06 | 26.97 | 1.25 | 31.75 | 1.03 | 26.16 | 1.88 | 47.75 |
| | | A | | | | | | 2.03 | 51.56 | | |
| | | B | | | | | | 3.03 | 76.96 | | |
| | | C | | | | | | 4.03 | 102.36 | | |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

Amphenol

# For Connector Family K

**38999 Series II** **38999 Series I** Connector Family "K", includes MIL-DTL-38999 Series II and Series I




**MIL Part Number**

**M85049 / 36 10 W 03 A**

- MIL Series
- Slash Sheet: 36: Straight, Direct Coupling
- Shell Size See Table-A
- Finish: See Table-2 (pg. 486)
- Clamp Size: See Table-A
- Length See Table-A (Omit for "STD")

**TABLE-A**

| MIL PART NUMBER DESIGNATOR | | | CONNECTOR SHELL SIZE SE – II / I | CABLE RANGE | | | | L (MAX) | | Y (MAX) | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | MIN | | MAX | | | | | |
| ACCESSORY SHELL SIZE | CLAMP SIZE | LENGTH CODE | | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 08 | 01 | STD. | 8 / 9 | 0.06 | 1.57 | 0.13 | 3.18 | 1.53 | 38.86 | 0.78 | 19.81 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | 02 | STD. | | 0.13 | 3.18 | 0.25 | 6.35 | 1.53 | 38.86 | 0.97 | 24.64 |
| | | A | | | | | | 2.53 | 64.26 | | |
| 10 | 01 | STD. | 10 / 11 | 0.06 | 1.57 | 0.13 | 3.18 | 1.53 | 38.86 | 0.78 | 19.81 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | 02 | STD. | | 0.13 | 3.18 | 0.25 | 6.35 | 1.53 | 38.86 | 0.97 | 24.64 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | 03 | STD. | | 0.25 | 6.35 | 0.38 | 9.53 | 1.53 | 38.86 | 1.06 | 26.92 |
| | | A | | | | | | 2.53 | 64.26 | | |
| 12 | 02 | STD. | 12 / 13 | 0.13 | 3.18 | 0.25 | 6.35 | 1.53 | 38.86 | 0.97 | 24.64 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | 03 | STD. | | 0.25 | 6.35 | 0.38 | 9.53 | 1.53 | 38.86 | 1.06 | 26.92 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | 04 | STD. | | 0.31 | 7.92 | 0.50 | 12.70 | 1.53 | 38.86 | 1.16 | 29.46 |
| | | A | | | | | | 2.53 | 64.26 | | |
| 14 | 02 | STD. | 14 / 15 | 0.13 | 3.18 | 0.25 | 6.35 | 1.53 | 38.86 | 0.97 | 24.64 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | 3.53 | 89.66 | | |
| | 03 | STD. | | 0.25 | 6.35 | 0.38 | 9.53 | 1.53 | 38.86 | 1.06 | 26.92 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | 3.53 | 89.66 | | |
| | 04 | STD. | | 0.31 | 7.92 | 0.50 | 12.70 | 1.53 | 38.86 | 1.16 | 29.46 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | 3.53 | 89.66 | | |
| | 05 | STD. | | 0.44 | 11.10 | 0.63 | 15.88 | 1.53 | 38.86 | 1.25 | 31.75 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | 3.53 | 89.66 | | |
| 16 | 02 | STD. | 16 / 17 | 0.13 | 3.18 | 0.25 | 6.35 | 1.53 | 38.86 | 0.97 | 24.64 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | 3.53 | 89.66 | | |
| | 03 | STD. | | 0.25 | 6.35 | 0.38 | 9.53 | 1.53 | 38.86 | 1.06 | 26.92 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | 3.53 | 89.66 | | |
| | 04 | STD. | | 0.31 | 7.92 | 0.50 | 12.70 | 1.53 | 38.86 | 1.16 | 29.46 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | 3.53 | 89.66 | | |
| | 05 | STD. | | 0.44 | 11.10 | 0.63 | 15.88 | 1.53 | 38.86 | 1.25 | 31.75 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | 3.53 | 89.66 | | |
| | 06 | STD. | | 0.56 | 14.27 | 0.75 | 19.05 | 1.53 | 38.86 | 1.38 | 35.05 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | 3.53 | 89.66 | | |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE

## For Connector Family K

**38999 Series II** **38999 Series I**

Connector Family "K", includes MIL-DTL-38999 Series II and Series I

**TABLE-A, cont.**

| MIL PART NUMBER DESIGNATOR | | | CONNECTOR SHELL SIZE SE – II / I | CABLE RANGE | | | | L (MAX) | | Y (MAX) | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | MIN | | MAX | | | | | |
| ACCESSORY SHELL SIZE | CLAMP SIZE | LENGTH CODE | | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 18 | 03 | STD. | 18 / 19 | 0.25 | 6.35 | 0.38 | 9.53 | 1.53 | 38.86 | 1.06 | 26.92 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | 3.53 | 89.66 | | |
| | 04 | STD. | | 0.31 | 7.92 | 0.50 | 12.70 | 1.53 | 38.86 | 1.16 | 29.46 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | 3.53 | 89.66 | | |
| | 05 | STD. | | 0.44 | 11.10 | 0.63 | 15.88 | 1.53 | 38.86 | 1.25 | 31.75 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | 3.53 | 89.66 | | |
| | 06 | STD. | | 0.56 | 14.27 | 0.75 | 19.05 | 1.53 | 38.86 | 1.38 | 35.05 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | 3.53 | 89.66 | | |
| | 07 | STD. | | 0.69 | 17.45 | 0.88 | 22.23 | 1.53 | 38.86 | 1.50 | 38.10 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | 3.53 | 89.66 | | |
| 20 | 03 | STD. | 20 / 21 | 0.25 | 6.35 | 0.38 | 9.53 | 1.53 | 38.86 | 1.06 | 26.92 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | 4.53 | 115.06 | | |
| | 04 | STD. | | 0.31 | 7.92 | 0.50 | 12.70 | 1.53 | 38.86 | 1.16 | 29.46 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | 4.53 | 115.06 | | |
| | 05 | STD. | | 0.44 | 11.10 | 0.63 | 15.88 | 1.53 | 38.86 | 1.25 | 31.75 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | 4.53 | 115.06 | | |
| | 06 | STD. | | 0.56 | 14.27 | 0.75 | 19.05 | 1.53 | 38.86 | 1.38 | 35.05 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | 4.53 | 115.06 | | |
| | 07 | STD. | | 0.69 | 17.45 | 0.88 | 22.23 | 1.53 | 38.86 | 1.50 | 38.10 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | 4.53 | 115.06 | | |
| | 08 | STD. | | 0.81 | 20.62 | 1.00 | 25.40 | 1.53 | 38.86 | 1.63 | 41.40 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | 4.53 | 115.06 | | |

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All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE

# For Connector Family K

**38999 Series II** **38999 Series I** Connector Family "K", includes MIL-DTL-38999 Series II and Series I

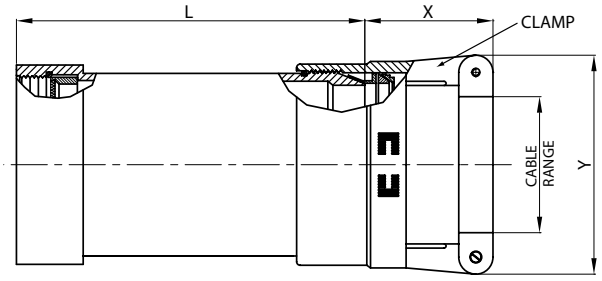
| TABLE-A, cont. | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MIL PART NUMBER DESIGNATOR | | | CONNECTOR SHELL SIZE SE – II / I | CABLE RANGE | | | | L (MAX) | | Y (MAX) | |
| ACCESSORY SHELL SIZE | CLAMP SIZE | LENGTH CODE | | MIN | | MAX | | INCH | MM | INCH | MM |
| | | | | INCH | MM | INCH | MM | | | | |
| 22 | 03 | STD. | 22 /23 | 0.25 | 6.35 | 0.38 | 9.53 | 1.53 | 38.86 | 1.06 | 26.92 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | 4.53 | 115.06 | | |
| | 04 | STD. | | 0.31 | 7.92 | 0.50 | 12.70 | 1.53 | 38.86 | 1.16 | 29.46 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | 4.53 | 115.06 | | |
| | 05 | STD. | | 0.44 | 11.10 | 0.63 | 15.88 | 1.53 | 38.86 | 1.25 | 31.75 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | 4.53 | 115.06 | | |
| | 06 | STD. | | 0.56 | 14.27 | 0.75 | 19.05 | 1.53 | 38.86 | 1.38 | 35.05 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | 4.53 | 115.06 | | |
| | 07 | STD. | | 0.69 | 17.45 | 0.88 | 22.23 | 1.53 | 38.86 | 1.50 | 38.10 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | 4.53 | 115.06 | | |
| | 08 | STD. | | 0.81 | 20.62 | 1.00 | 25.40 | 1.53 | 38.86 | 1.63 | 41.40 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | 4.53 | 115.06 | | |
| | 09 | STD. | | 0.94 | 23.80 | 1.13 | 28.58 | 1.53 | 38.86 | 1.75 | 44.45 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | 4.53 | 115.06 | | |
| 24 | 04 | STD. | 24 / 25 | 0.31 | 7.92 | 0.50 | 12.70 | 1.53 | 38.86 | 1.16 | 29.46 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | 4.53 | 115.06 | | |
| | 05 | STD. | | 0.44 | 11.10 | 0.63 | 15.88 | 1.53 | 38.86 | 1.25 | 31.75 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | 4.53 | 115.06 | | |
| | 06 | STD. | | 0.56 | 14.27 | 0.75 | 19.05 | 1.53 | 38.86 | 1.38 | 35.05 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | 4.53 | 115.06 | | |
| | 07 | STD. | | 0.69 | 17.45 | 0.88 | 22.23 | 1.53 | 38.86 | 1.50 | 38.10 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | 4.53 | 115.06 | | |
| | 08 | STD. | | 0.81 | 20.62 | 1.00 | 25.40 | 1.53 | 38.86 | 1.63 | 41.40 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | 4.53 | 115.06 | | |
| | 09 | STD. | | 0.94 | 23.80 | 1.13 | 28.58 | 1.53 | 38.86 | 1.75 | 44.45 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | 4.53 | 115.06 | | |
| | 10 | STD. | | 1.06 | 26.97 | 1.25 | 31.75 | 1.53 | 38.86 | 1.88 | 47.75 |
| | | A | | | | | | 2.53 | 64.26 | | |
| | | B | | | | | | 3.53 | 89.66 | | |
| | | C | | | | | | 4.53 | 115.06 | | |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

# For Connector Family K

**38999 Series II** **38999 Series I**

Connector Family "K", includes MIL-DTL-38999 Series II and Series I




**MIL Part Number**

M85049 / 17 10 W 03 A

- MIL Series
- Slash Sheet: 17: Straight, Direct Coupling
- Shell Size See Table-A
- Finish: See Table-2 (pg. 486)
- Clamp Size: See Table-A
- Length See Table-A (Omit for "STD")

**TABLE – A**

| MIL PART NUMBER DESIGNATOR | | LENGTH | CONNECTOR SHELL SIZE SE – II / I | CABLE RANGE | | | | L (MAX) | | X (MAX) | | Y (MAX) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | MIN | | MAX | | | | | | | |
| ACCESSORY SHELL SIZE | CLAMP SIZE | | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 08 | 01 | STD. | 8 / 9 | 0.06 | 1.57 | 0.13 | 3.18 | 1.53 | 38.86 | 1.25 | 31.75 | 0.78 | 19.81 |
| | | A | | | | | | 2.53 | 64.26 | | | | |
| | 02 | STD. | | 0.13 | 3.18 | 0.25 | 6.35 | 1.53 | 38.86 | 1.25 | 31.75 | 0.97 | 24.64 |
| | | A | | | | | | 2.53 | 64.26 | | | | |
| 10 | 01 | STD. | 10 / 11 | 0.06 | 1.57 | 0.13 | 3.18 | 1.53 | 38.86 | 1.25 | 31.75 | 0.78 | 19.81 |
| | | A | | | | | | 2.53 | 64.26 | | | | |
| | 02 | STD. | | 0.13 | 3.18 | 0.25 | 6.35 | 1.53 | 38.86 | 1.25 | 31.75 | 0.97 | 24.64 |
| | | A | | | | | | 2.53 | 64.26 | | | | |
| | 03 | STD. | | 0.25 | 6.35 | 0.38 | 9.53 | 1.53 | 38.86 | 1.25 | 31.75 | 1.06 | 26.92 |
| | | A | | | | | | 2.53 | 64.26 | | | | |
| 12 | 02 | STD. | 12 / 13 | 0.13 | 3.18 | 0.25 | 6.35 | 1.53 | 38.86 | 1.25 | 31.75 | 0.97 | 24.64 |
| | | A | | | | | | 2.53 | 64.26 | | | | |
| | 03 | STD. | | 0.25 | 6.35 | 0.38 | 9.53 | 1.53 | 38.86 | 1.25 | 31.75 | 1.06 | 26.92 |
| | | A | | | | | | 2.53 | 64.26 | | | | |
| | 04 | STD. | | 0.38 | 9.53 | 0.50 | 12.70 | 1.53 | 38.86 | 1.25 | 31.75 | 1.16 | 29.46 |
| | | A | | | | | | 2.53 | 64.26 | | | | |
| 14 | 02 | STD. | 14 / 15 | 0.13 | 3.18 | 0.25 | 6.35 | 1.53 | 38.86 | 1.25 | 31.75 | 0.97 | 24.64 |
| | | A | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | 3.53 | 89.66 | | | | |
| | 03 | STD. | | 0.25 | 6.35 | 0.38 | 9.53 | 1.53 | 38.86 | 1.25 | 31.75 | 1.06 | 26.92 |
| | | A | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | 3.53 | 89.66 | | | | |
| | 04 | STD. | | 0.38 | 9.53 | 0.50 | 12.70 | 1.53 | 38.86 | 1.25 | 31.75 | 1.16 | 29.46 |
| | | A | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | 3.53 | 89.66 | | | | |
| | 05 | STD. | | 0.50 | 12.70 | 0.63 | 15.88 | 1.53 | 38.86 | 1.31 | 33.27 | 1.25 | 31.75 |
| | | A | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | 3.53 | 89.66 | | | | |
| 16 | 02 | STD. | 16 / 17 | 0.13 | 3.18 | 0.25 | 6.35 | 1.53 | 38.86 | 1.25 | 31.75 | 0.97 | 24.64 |
| | | A | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | 3.53 | 89.66 | | | | |
| | 03 | STD. | | 0.25 | 6.35 | 0.38 | 9.53 | 1.53 | 38.86 | 1.25 | 31.75 | 1.06 | 26.92 |
| | | A | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | 3.53 | 89.66 | | | | |
| | 04 | STD. | | 0.38 | 9.53 | 0.50 | 12.70 | 1.53 | 38.86 | 1.25 | 31.75 | 1.16 | 29.46 |
| | | A | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | 3.53 | 89.66 | | | | |
| | 05 | STD. | | 0.50 | 12.70 | 0.63 | 15.88 | 1.53 | 38.86 | 1.31 | 33.27 | 1.25 | 31.75 |
| | | A | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | 3.53 | 89.66 | | | | |
| | 06 | STD. | | 0.63 | 15.88 | 0.75 | 19.05 | 1.53 | 38.86 | 1.38 | 35.05 | 1.38 | 35.05 |
| | | A | | | | | | 2.53 | 64.26 | | | | |
| | | B | | | | | | 3.53 | 89.66 | | | | |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE

# For Connector Family K

**38999 Series II** **38999 Series I** Connector Family "K", includes MIL-DTL-38999 Series II and Series I

**TABLE – A, cont.**

| MIL PART NUMBER DESIGNATOR | | CONNECTOR SHELL SIZE SE – II / I | LENGTH | CABLE RANGE | | | | L (MAX) | | X (MAX) | | Y (MAX) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | MIN | | MAX | | | | | | | |
| ACCESSORY SHELL SIZE | CLAMP SIZE | | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 18 | 03 | 18 / 19 | STD. | 0.25 | 6.35 | 0.38 | 9.53 | 1.53 | 38.86 | 1.25 | 31.75 | 1.06 | 26.92 |
| | | | A | | | | | 2.53 | 64.26 | | | | |
| | | | B | | | | | 3.53 | 89.66 | | | | |
| | 04 | | STD. | 0.38 | 9.53 | 0.50 | 12.70 | 1.53 | 38.86 | 1.25 | 31.75 | 1.16 | 29.46 |
| | | | A | | | | | 2.53 | 64.26 | | | | |
| | | | B | | | | | 3.53 | 89.66 | | | | |
| | 05 | | STD. | 0.50 | 12.70 | 0.63 | 15.88 | 1.53 | 38.86 | 1.31 | 33.27 | 1.25 | 31.75 |
| | | | A | | | | | 2.53 | 64.26 | | | | |
| | | | B | | | | | 3.53 | 89.66 | | | | |
| | 06 | | STD. | 0.63 | 15.88 | 0.75 | 19.05 | 1.53 | 38.86 | 1.38 | 35.05 | 1.38 | 35.05 |
| | | | A | | | | | 2.53 | 64.26 | | | | |
| | | | B | | | | | 3.53 | 89.66 | | | | |
| | 07 | | STD. | 0.75 | 19.05 | 0.88 | 22.23 | 1.53 | 38.86 | 1.50 | 38.10 | 1.50 | 38.10 |
| | | | A | | | | | 2.53 | 64.26 | | | | |
| | | | B | | | | | 3.53 | 89.66 | | | | |
| 20 | 03 | 20 / 21 | STD. | 0.25 | 6.35 | 0.38 | 9.53 | 1.53 | 38.86 | 1.25 | 31.75 | 1.06 | 26.92 |
| | | | A | | | | | 2.53 | 64.26 | | | | |
| | | | B | | | | | 3.53 | 89.66 | | | | |
| | | | C | | | | | 4.53 | 115.06 | | | | |
| | 04 | | STD. | 0.38 | 9.53 | 0.50 | 12.70 | 1.53 | 38.86 | 1.25 | 31.75 | 1.16 | 29.46 |
| | | | A | | | | | 2.53 | 64.26 | | | | |
| | | | B | | | | | 3.53 | 89.66 | | | | |
| | | | C | | | | | 4.53 | 115.06 | | | | |
| | 05 | | STD. | 0.50 | 12.70 | 0.63 | 15.88 | 1.53 | 38.86 | 1.31 | 33.27 | 1.25 | 31.75 |
| | | | A | | | | | 2.53 | 64.26 | | | | |
| | | | B | | | | | 3.53 | 89.66 | | | | |
| | | | C | | | | | 4.53 | 115.06 | | | | |
| | 06 | | STD. | 0.63 | 15.88 | 0.75 | 19.05 | 1.53 | 38.86 | 1.38 | 35.05 | 1.38 | 35.05 |
| | | | A | | | | | 2.53 | 64.26 | | | | |
| | | | B | | | | | 3.53 | 89.66 | | | | |
| | | | C | | | | | 4.53 | 115.06 | | | | |
| | 07 | | STD. | 0.75 | 19.05 | 0.88 | 22.23 | 1.53 | 38.86 | 1.50 | 38.10 | 1.50 | 38.10 |
| | | | A | | | | | 2.53 | 64.26 | | | | |
| | | | B | | | | | 3.53 | 89.66 | | | | |
| | | | C | | | | | 4.53 | 115.06 | | | | |
| | 08 | | STD. | 0.88 | 22.23 | 1.00 | 25.40 | 1.53 | 38.86 | 1.63 | 41.40 | 1.63 | 41.40 |
| | | | A | | | | | 2.53 | 64.26 | | | | |
| | | | B | | | | | 3.53 | 89.66 | | | | |
| | | | C | | | | | 4.53 | 115.06 | | | | |
| 22 | 03 | 22 /23 | STD. | 0.25 | 6.35 | 0.38 | 9.53 | 1.53 | 38.86 | 1.25 | 31.75 | 1.06 | 26.92 |
| | | | A | | | | | 2.53 | 64.26 | | | | |
| | | | B | | | | | 3.53 | 89.66 | | | | |
| | | | C | | | | | 4.53 | 115.06 | | | | |
| | 04 | | STD. | 0.38 | 9.53 | 0.50 | 12.70 | 1.53 | 38.86 | 1.25 | 31.75 | 1.16 | 29.46 |
| | | | A | | | | | 2.53 | 64.26 | | | | |
| | | | B | | | | | 3.53 | 89.66 | | | | |
| | | | C | | | | | 4.53 | 115.06 | | | | |
| | 05 | | STD. | 0.50 | 12.70 | 0.63 | 15.88 | 1.53 | 38.86 | 1.31 | 33.27 | 1.25 | 31.75 |
| | | | A | | | | | 2.53 | 64.26 | | | | |
| | | | B | | | | | 3.53 | 89.66 | | | | |
| | | | C | | | | | 4.53 | 115.06 | | | | |
| | 06 | | STD. | 0.63 | 15.88 | 0.75 | 19.05 | 1.53 | 38.86 | 1.38 | 35.05 | 1.38 | 35.05 |
| | | | A | | | | | 2.53 | 64.26 | | | | |
| | | | B | | | | | 3.53 | 89.66 | | | | |
| | | | C | | | | | 4.53 | 115.06 | | | | |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE

# For Connector Family K

**38999 Series II** **38999 Series I**

Connector Family "K", includes MIL-DTL-38999 Series II and Series I



**TABLE – A, cont.**

| MIL PART NUMBER DESIGNATOR | | CONNECTOR SHELL SIZE SE – II / I | LENGTH | CABLE RANGE | | | | L (MAX) | | X (MAX) | | Y (MAX) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | MIN | | MAX | | | | | | | |
| ACCESSORY SHELL SIZE | CLAMP SIZE | | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 22, cont. | 07 | 22 / 23 | STD. | 0.75 | 19.05 | 0.88 | 22.23 | 1.53 | 38.86 | 1.50 | 38.10 | 1.50 | 38.10 |
| | | | A | | | | | 2.53 | 64.26 | | | | |
| | | | B | | | | | 3.53 | 89.66 | | | | |
| | | | C | | | | | 4.53 | 115.06 | | | | |
| | 08 | | STD. | 0.88 | 22.23 | 1.00 | 25.40 | 1.53 | 38.86 | 1.63 | 41.40 | 1.63 | 41.40 |
| | | | A | | | | | 2.53 | 64.26 | | | | |
| | | | B | | | | | 3.53 | 89.66 | | | | |
| | | | C | | | | | 4.53 | 115.06 | | | | |
| | 09 | | STD. | 1.00 | 25.40 | 1.13 | 28.58 | 1.53 | 38.86 | 1.63 | 41.40 | 1.75 | 44.45 |
| | | | A | | | | | 2.53 | 64.26 | | | | |
| | | | B | | | | | 3.53 | 89.66 | | | | |
| | | | C | | | | | 4.53 | 115.06 | | | | |
| 24 | 04 | 24 / 25 | STD. | 0.38 | 9.53 | 0.50 | 12.70 | 1.53 | 38.86 | 1.25 | 31.75 | 1.16 | 29.46 |
| | | | A | | | | | 2.53 | 64.26 | | | | |
| | | | B | | | | | 3.53 | 89.66 | | | | |
| | | | C | | | | | 4.53 | 115.06 | | | | |
| | 05 | | STD. | 0.50 | 12.70 | 0.63 | 15.88 | 1.53 | 38.86 | 1.31 | 33.27 | 1.25 | 31.75 |
| | | | A | | | | | 2.53 | 64.26 | | | | |
| | | | B | | | | | 3.53 | 89.66 | | | | |
| | | | C | | | | | 4.53 | 115.06 | | | | |
| | 06 | | STD. | 0.63 | 15.88 | 0.75 | 19.05 | 1.53 | 38.86 | 1.38 | 35.05 | 1.38 | 35.05 |
| | | | A | | | | | 2.53 | 64.26 | | | | |
| | | | B | | | | | 3.53 | 89.66 | | | | |
| | | | C | | | | | 4.53 | 115.06 | | | | |
| | 07 | | STD. | 0.75 | 19.05 | 0.88 | 22.23 | 1.53 | 38.86 | 1.50 | 38.10 | 1.50 | 38.10 |
| | | | A | | | | | 2.53 | 64.26 | | | | |
| | | | B | | | | | 3.53 | 89.66 | | | | |
| | | | C | | | | | 4.53 | 115.06 | | | | |
| | 08 | | STD. | 0.88 | 22.23 | 1.00 | 25.40 | 1.53 | 38.86 | 1.63 | 41.40 | 1.63 | 41.40 |
| | | | A | | | | | 2.53 | 64.26 | | | | |
| | | | B | | | | | 3.53 | 89.66 | | | | |
| | | | C | | | | | 4.53 | 115.06 | | | | |
| | 09 | | STD. | 1.00 | 25.40 | 1.13 | 28.58 | 1.53 | 38.86 | 1.63 | 41.40 | 1.75 | 44.45 |
| | | | A | | | | | 2.53 | 64.26 | | | | |
| | | | B | | | | | 3.53 | 89.66 | | | | |
| | | | C | | | | | 4.53 | 115.06 | | | | |
| | 10 | | STD. | 1.13 | 28.58 | 1.25 | 31.75 | 1.53 | 38.86 | 1.63 | 41.40 | 1.88 | 47.75 |
| | | | A | | | | | 2.53 | 64.26 | | | | |
| | | | B | | | | | 3.53 | 89.66 | | | | |
| | | | C | | | | | 4.53 | 115.06 | | | | |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

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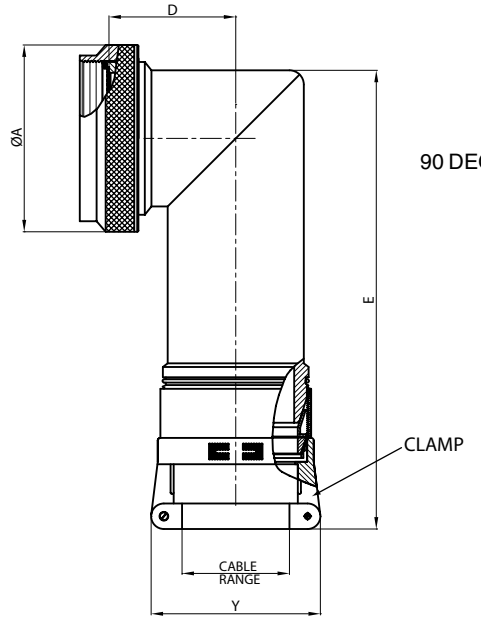
# For Connector Family K

**38999 Series II** **38999 Series I** Connector Family "K", includes MIL-DTL-38999 Series II and Series I

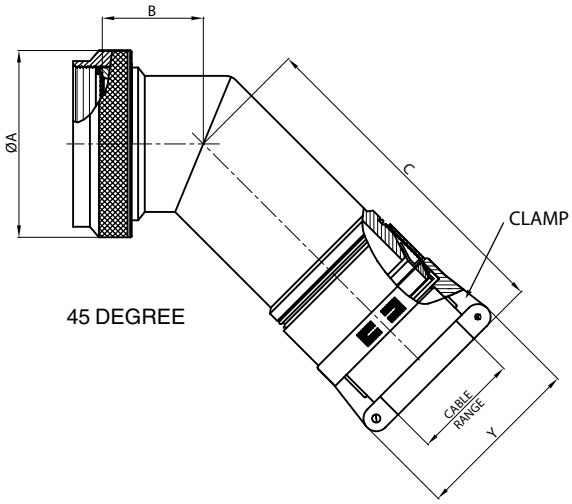



90 DEGREE

**MIL Part Number**

M85049 / 76 10 W 01

- MIL Series
- Slash Sheet: 76: 90° Spin Coupling 77: 45° Spin Coupling
- Shell Size See Table-B
- Finish: See Table-2 (pg. 486)
- Clamp Size: See Table-B




45 DEGREE

**TABLE – B**

| MIL PART NUMBER DESIGNATOR | | CONNECTOR SHELL SIZE SE – II / I | CABLE RANGE | | | | A DIA. (MAX) | | B (MAX) | | C (MAX) | | D (MAX) | | E (MAX) | | Y (MAX) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | MIN | | MAX | | | | | | | | | | | | | |
| ACCESSORY SHELL SIZE | CLAMP SIZE | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 08 | 01 | 8 / 9 | 0.06 | 1.57 | 0.13 | 3.18 | 0.75 | 19.05 | 0.46 | 11.68 | 3.15 | 80.01 | 0.69 | 17.53 | 3.46 | 87.88 | 0.80 | 20.32 |
| | 02 | | 0.13 | 3.18 | 0.25 | 6.35 | | | | | | | | | | | 1.00 | 25.40 |
| 10 | 01 | 10 / 11 | 0.06 | 1.57 | 0.13 | 3.18 | 0.85 | 21.59 | 0.52 | 13.21 | 3.21 | 81.53 | 0.78 | 19.81 | 3.58 | 90.93 | 0.80 | 20.32 |
| | 02 | | 0.13 | 3.18 | 0.25 | 6.35 | | | | | | | | | | | 1.00 | 25.40 |
| | 03 | | 0.25 | 6.35 | 0.38 | 9.53 | | | | | | | | | | | 1.10 | 27.94 |
| 12 | 02 | 12 / 13 | 0.13 | 3.18 | 0.25 | 6.35 | 1.00 | 25.40 | 0.58 | 14.73 | 3.27 | 83.06 | 0.80 | 20.32 | 3.60 | 91.44 | 1.00 | 25.40 |
| | 03 | | 0.25 | 6.35 | 0.38 | 9.53 | | | | | | | | | | | 1.10 | 27.94 |
| | 04 | | 0.38 | 9.53 | 0.50 | 12.70 | | | | | | | | | | | 1.20 | 30.48 |
| 14 | 02 | 14 / 15 | 0.13 | 3.18 | 0.25 | 6.35 | 1.15 | 29.21 | 0.65 | 16.51 | 3.36 | 85.34 | 0.88 | 22.35 | 3.67 | 93.22 | 1.00 | 25.40 |
| | 03 | | 0.25 | 6.35 | 0.38 | 9.53 | | | | | | | | | | | 1.10 | 27.94 |
| | 04 | | 0.38 | 9.53 | 0.50 | 12.70 | | | | | | | | | | | 1.20 | 30.48 |
| | 05 | | 0.50 | 12.70 | 0.63 | 15.88 | | | | | | | | | | | 1.25 | 31.75 |
| 16 | 02 | 16 / 17 | 0.13 | 3.18 | 0.25 | 6.35 | 1.25 | 31.75 | 0.74 | 18.80 | 3.47 | 88.14 | 0.93 | 23.62 | 3.76 | 95.50 | 1.00 | 25.40 |
| | 03 | | 0.25 | 6.35 | 0.38 | 9.53 | | | | | | | | | | | 1.10 | 27.94 |
| | 04 | | 0.38 | 9.53 | 0.50 | 12.70 | | | | | | | | | | | 1.20 | 30.48 |
| | 05 | | 0.50 | 12.70 | 0.63 | 15.88 | | | | | | | | | | | 1.25 | 31.75 |
| | 06 | | 0.63 | 15.88 | 0.75 | 19.05 | | | | | | | | | | | 1.40 | 35.56 |
| 18 | 03 | 18 / 19 | 0.25 | 6.35 | 0.38 | 9.53 | 1.40 | 35.56 | 0.93 | 23.62 | 3.66 | 92.96 | 1.01 | 25.65 | 3.93 | 99.82 | 1.10 | 27.94 |
| | 04 | | 0.38 | 9.53 | 0.50 | 12.70 | | | | | | | | | | | 1.20 | 30.48 |
| | 05 | | 0.50 | 12.70 | 0.63 | 15.88 | | | | | | | | | | | 1.25 | 31.75 |
| | 06 | | 0.63 | 15.88 | 0.75 | 19.05 | | | | | | | | | | | 1.40 | 35.56 |
| | 07 | | 0.75 | 19.05 | 0.88 | 22.23 | | | | | | | | | | | 1.50 | 38.10 |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE

# For Connector Family K

**38999 Series II** **38999 Series I**

Connector Family "K", includes MIL-DTL-38999 Series II and Series I



**TABLE – B**

| MIL PART NUMBER DESIGNATOR | | CONNECTOR SHELL SIZE SE – II / I | CABLE RANGE | | | | A DIA. (MAX) | | B (MAX) | | C (MAX) | | D (MAX) | | E (MAX) | | Y (MAX) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ACCESSORY SHELL SIZE | CLAMP SIZE | | MIN | | MAX | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| | | | INCH | MM | INCH | MM | | | | | | | | | | | | |
| 20 | 03 | 20 / 21 | 0.25 | 6.35 | 0.38 | 9.53 | 1.55 | 39.37 | 0.93 | 23.62 | 3.66 | 92.96 | 1.06 | 26.92 | 3.93 | 99.82 | 1.10 | 27.94 |
| | 04 | | 0.38 | 9.53 | 0.50 | 12.70 | | | | | | | | | | | 1.20 | 30.48 |
| | 05 | | 0.50 | 12.70 | 0.63 | 15.88 | | | | | | | | | | | 1.25 | 31.75 |
| | 06 | | 0.63 | 15.88 | 0.75 | 19.05 | | | | | | | | | | | 1.40 | 35.56 |
| | 07 | | 0.75 | 19.05 | 0.88 | 22.23 | | | | | | | | | | | 1.50 | 38.10 |
| | 08 | | 0.88 | 22.23 | 1.00 | 25.40 | | | | | | | | | | | 1.65 | 41.91 |
| 22 | 03 | 22 /23 | 0.25 | 6.35 | 0.38 | 9.53 | 1.65 | 41.91 | 1.02 | 25.91 | 3.81 | 96.77 | 1.17 | 29.72 | 4.04 | 102.62 | 1.10 | 27.94 |
| | 04 | | 0.38 | 9.53 | 0.50 | 12.70 | | | | | | | | | | | 1.20 | 30.48 |
| | 05 | | 0.50 | 12.70 | 0.63 | 15.88 | | | | | | | | | | | 1.25 | 31.75 |
| | 06 | | 0.63 | 15.88 | 0.75 | 19.05 | | | | | | | | | | | 1.40 | 35.56 |
| | 07 | | 0.75 | 19.05 | 0.88 | 22.23 | | | | | | | | | | | 1.50 | 38.10 |
| | 08 | | 0.88 | 22.23 | 1.00 | 25.40 | | | | | | | | | | | 1.65 | 41.91 |
| | 09 | | 1.00 | 25.40 | 1.13 | 28.58 | | | | | | | | | | | 1.75 | 44.45 |
| 24 | 04 | 24 / 25 | 0.38 | 9.53 | 0.50 | 12.70 | 1.85 | 46.99 | 1.02 | 25.91 | 3.81 | 96.77 | 1.18 | 29.97 | 4.04 | 102.62 | 1.20 | 30.48 |
| | 05 | | 0.50 | 12.70 | 0.63 | 15.88 | | | | | | | | | | | 1.25 | 31.75 |
| | 06 | | 0.63 | 15.88 | 0.75 | 19.05 | | | | | | | | | | | 1.40 | 35.56 |
| | 07 | | 0.75 | 19.05 | 0.88 | 22.23 | | | | | | | | | | | 1.50 | 38.10 |
| | 08 | | 0.88 | 22.23 | 1.00 | 25.40 | | | | | | | | | | | 1.65 | 41.91 |
| | 09 | | 1.00 | 25.40 | 1.13 | 28.58 | | | | | | | | | | | 1.75 | 44.45 |
| | 10 | | 1.13 | 28.58 | 1.25 | 31.75 | | | | | | | | | | | 1.90 | 48.26 |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

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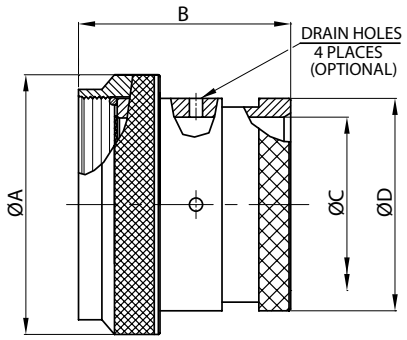
# For Connector Family K

**38999 Series II** **38999 Series I** Connector Family "K", includes MIL-DTL-38999 Series II and Series I




**MIL Part Number**

**M85049 / 62 10 W D**

- MIL Series
- Slash Sheet: 62: Straight, Spin Coupling
- D: Drain hole Option
- Finish: See Table-2 (pg. 486)
- Dash Number: See Table-A

**TABLE-A**

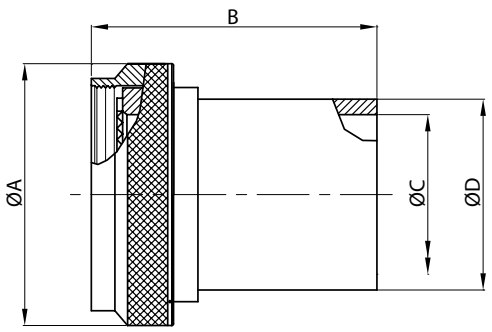
| MIL PART NUMBER DESIGNATOR | CONNECTOR SHELL SIZE SE – II / I | A DIA. (MAX) | | B (MAX) | | C DIA. ( MIN) | | D DIA. ( MAX) | |
|---|---|---|---|---|---|---|---|---|---|
| DASH NO. | | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 08 | 8 / 9 | 0.75 | 19.05 | 1.00 | 25.40 | 0.25 | 6.35 | 0.53 | 13.54 |
| 10 | 10 / 11 | 0.85 | 21.59 | 1.00 | 25.40 | 0.38 | 9.53 | 0.61 | 15.37 |
| 12 | 12 / 13 | 1.00 | 25.40 | 1.00 | 25.40 | 0.50 | 12.70 | 0.77 | 19.66 |
| 14 | 14 / 15 | 1.10 | 27.94 | 1.00 | 25.40 | 0.63 | 15.88 | 0.84 | 21.29 |
| 16 | 16 / 17 | 1.25 | 31.75 | 1.00 | 25.40 | 0.75 | 19.05 | 0.94 | 23.77 |
| 18 | 18 / 19 | 1.40 | 35.56 | 1.00 | 25.40 | 0.81 | 20.62 | 1.04 | 26.47 |
| 20 | 20 / 21 | 1.50 | 38.10 | 1.00 | 25.40 | 0.94 | 23.80 | 1.22 | 30.91 |
| 22 | 22 / 23 | 1.65 | 41.91 | 1.00 | 25.40 | 1.06 | 26.97 | 1.36 | 34.42 |
| 24 | 24 / 25 | 1.75 | 44.45 | 1.00 | 25.40 | 1.19 | 30.18 | 1.44 | 36.65 |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

# Crimp Ring Adapter
## Straight, Spin Coupling
## For Connector Family K

**38999 Series II** | **38999 Series I**

Connector Family "K", includes MIL-DTL-38999 Series II and Series I




**MIL Part Number**

**M85049 / 33 -2 -10 W**

- MIL Series
- Slash Sheet: 33: Straight, Spin Coupling
- Finish: See Table-2 (pg. 486)
- Dash Number: See Table-A
- Adapter without Crimp Ring

Refer to page 544 for ordering details of ring.

| TABLE – A | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| MIL PART NUMBER DESIGNATOR | CONNECTOR SHELL SIZE SE – II / I | A DIA.(MAX) | | B (MAX) | | C DIA.(MAX) | | D DIA.(MAX) | |
| DASH NO | | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 08 | 8 / 9 | 0.75 | 19.05 | 1.14 | 28.96 | 0.27 | 6.86 | 0.35 | 8.89 |
| 10 | 10 / 11 | 0.85 | 21.59 | 1.14 | 28.96 | 0.34 | 8.64 | 0.50 | 12.70 |
| 12 | 12 / 13 | 1.00 | 25.40 | 1.14 | 28.96 | 0.44 | 11.18 | 0.51 | 12.95 |
| 14 | 14 / 15 | 1.10 | 27.94 | 1.14 | 28.96 | 0.56 | 14.22 | 0.63 | 16.00 |
| 16 | 16 / 17 | 1.25 | 31.75 | 1.14 | 28.96 | 0.69 | 17.53 | 0.76 | 19.30 |
| 18 | 18 / 19 | 1.40 | 35.56 | 1.14 | 28.96 | 0.80 | 20.32 | 0.89 | 22.61 |
| 20 | 20 / 21 | 1.50 | 38.10 | 1.14 | 28.96 | 0.93 | 23.62 | 1.01 | 25.65 |
| 22 | 22 / 23 | 1.65 | 41.91 | 1.14 | 28.96 | 1.05 | 26.67 | 1.13 | 28.70 |
| 24 | 24 / 25 | 1.75 | 44.45 | 1.14 | 28.96 | 1.13 | 28.70 | 1.20 | 30.48 |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

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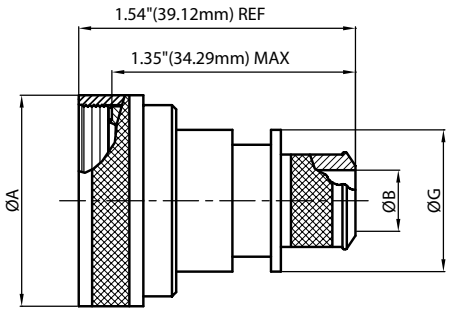
# For Connector Family K

**38999 Series II** **38999 Series I** Connector Family "K", includes MIL-DTL-38999 Series II and Series I

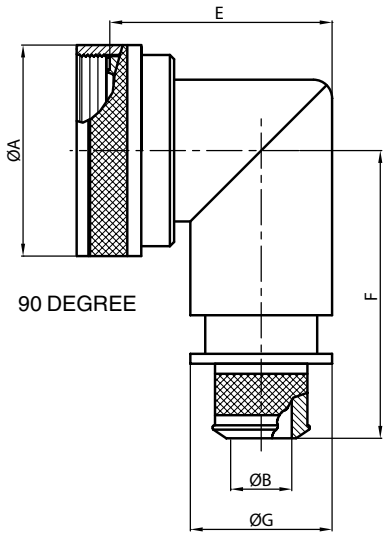



STRAIGHT

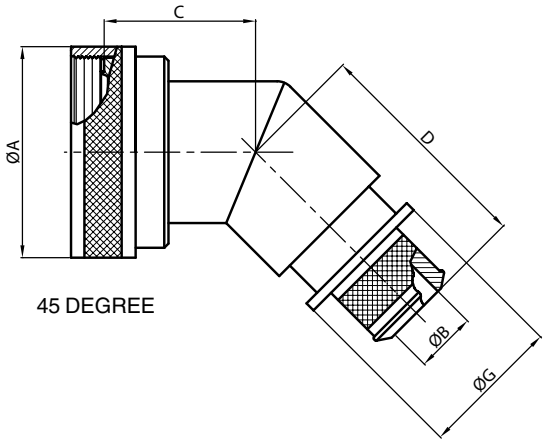
**MIL Part Number**

**M85049 / 85 -10 W 02**

- MIL Series
- Slash Sheet:
  85: Straight, Self-Lock
  87: 90°, Self-Lock
  86: 45°, Self-Lock
- Entry Size: See Table-A
- Finish: See Table-2 (pg. 486)
- Shell Size See Table-A




90 DEGREE




45 DEGREE

**TABLE-A**

| MIL PART NUMBER DESIGNATOR | | CONNECTOR SHELL SIZE SE – II / I | A DIA. (MAX) | | B DIA. (MAX) | | C (MAX) | | D (MAX) | | E (MAX) | | F (MAX.) | | G MAX | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ACCESSORY SHELL SIZE | ENTRY SIZE | | | | +0.00 -0.02 | +0.00 -0.50 | | | | | | | | | | |
| | | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 08 | 03 | 8 / 9 | 0.86 | 21.82 | 0.26 | 6.60 | 0.87 | 22.10 | 1.16 | 29.46 | 1.38 | 34.93 | 1.42 | 35.99 | 0.56 | 14.22 |
| 10 | 03 | 10 / 11 | 0.99 | 25.04 | 0.32 | 8.13 | 0.90 | 22.86 | 1.19 | 30.23 | 1.44 | 36.50 | 1.48 | 37.59 | 0.63 | 16.00 |
| 12 | 02 | 12 / 13 | 1.16 | 29.36 | 0.32 | 8.13 | 0.92 | 23.37 | 1.21 | 30.73 | 1.56 | 39.67 | 1.55 | 39.45 | 0.63 | 16.00 |
| | 03 | | | | 0.45 | 11.43 | | | | | | | | | 0.75 | 19.05 |
| 14 | 02 | 14 / 15 | 1.28 | 32.54 | 0.45 | 11.43 | 0.95 | 24.13 | 1.24 | 31.50 | 1.69 | 42.85 | 1.61 | 41.00 | 0.75 | 19.05 |
| | 03 | | | | 0.57 | 14.48 | | | | | | | | | 0.89 | 22.61 |
| 16 | 02 | 16 / 17 | 1.41 | 35.71 | 0.51 | 12.95 | 0.98 | 24.89 | 1.26 | 32.00 | 1.75 | 44.45 | 1.68 | 42.62 | 0.82 | 20.83 |
| | 03 | | | | 0.64 | 16.26 | | | | | | | | | 0.95 | 24.13 |
| 18 | 02 | 18 / 19 | 1.52 | 38.51 | 0.64 | 16.26 | 0.98 | 24.89 | 1.27 | 32.26 | 1.88 | 47.63 | 1.73 | 44.02 | 0.95 | 24.13 |
| | 03 | | | | 0.76 | 19.30 | | | | | | | | | 1.07 | 27.18 |
| 20 | 02 | 20 / 21 | 1.64 | 41.68 | 0.64 | 16.26 | 1.01 | 25.65 | 1.30 | 33.02 | 1.94 | 49.23 | 1.80 | 45.62 | 0.95 | 24.13 |
| | 03 | | | | 0.82 | 20.83 | | | | | | | | | 1.13 | 28.07 |
| 22 | 02 | 22 / 23 | 1.77 | 44.86 | 0.70 | 17.78 | 1.04 | 26.42 | 1.33 | 33.78 | 2.06 | 52.37 | 1.86 | 47.22 | 1.02 | 25.99 |
| | 03 | | | | 0.95 | 24.13 | | | | | | | | | 1.26 | 32.00 |
| 24 | 02 | 24 / 25 | 1.89 | 48.03 | 0.76 | 19.30 | 1.07 | 27.18 | 1.35 | 34.29 | 2.13 | 53.98 | 1.92 | 48.74 | 1.07 | 27.18 |
| | 03 | | | | 1.01 | 25.65 | | | | | | | | | 1.32 | 33.53 |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

# Pre-Shield Adapter

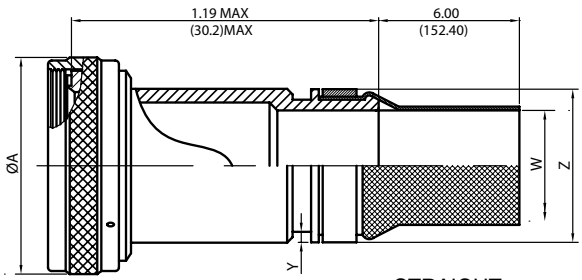
## Straight, 90° Spin Coupling/Self-Lock

## For Connector Family K

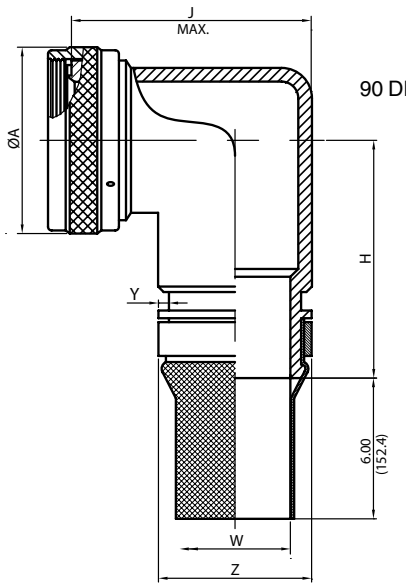
**38999 Series II** | **38999 Series I**

Connector Family "K", includes MIL-DTL-38999 Series II and Series I






STRAIGHT




90 DEGREE

### MIL Part Number

**M85049 / 112 – 10 T W 03 -6 D**

- MIL Series
- Slash Sheet: 112: Straight; 114: 90°
- Coupling: –: Spin Coupling; S: Self-Lock
- Shell Size: See Table-A
- Shield Finish: (Material: Copper) K: Nickel; T: Tin
- Finish: See Table-2 (pg. 486)
- Entry Size: See Table-A & B
- Shield Length: 6 inches min. 18 inches max. 1 inch increments 6: 6 inch, 7: 7 inch, so on
- Drain Hole Option

**TABLE – A**

| MIL PART NUMBER DESIGNATOR | | | CONNECTOR SHELL SIZE SE – II / I | A DIA.(MAX) | | H (MAX) | | J (MAX) | |
|---|---|---|---|---|---|---|---|---|---|
| ACCESSORY SHELL SIZE | ALLOWABLE ENTRY SIZE | | | INCH | MM | INCH | MM | INCH | MM |
| | MIN | MAX | | | | | | | |
| 08 | - | 01 | 8/9 | 0.860 | 21.84 | 1.73 | 43.94 | 1.07 | 27.18 |
| 10 | 01 | 03 | 10/11 | 0.980 | 24.89 | 1.85 | 46.99 | 1.19 | 30.23 |
| 12 | 01 | 05 | 12/13 | 1.160 | 29.46 | 1.87 | 47.50 | 1.32 | 33.53 |
| 14 | 03 | 07 | 14/15 | 1.280 | 32.51 | 1.94 | 49.28 | 1.44 | 36.58 |
| 16 | 05 | 09 | 16/17 | 1.410 | 35.81 | 2.03 | 51.56 | 1.57 | 39.88 |
| 18 | 06 | 10 | 18/19 | 1.520 | 38.61 | 2.20 | 55.88 | 1.75 | 44.45 |
| 20 | 08 | 12 | 20/21 | 1.640 | 41.66 | 2.20 | 55.88 | 1.75 | 44.45 |
| 22 | 09 | 13 | 22/23 | 1.770 | 44.96 | 2.31 | 58.67 | 2.00 | 50.80 |
| 24 | 10 | 14 | 24/25 | 1.890 | 48.01 | 2.31 | 58.67 | 2.00 | 50.80 |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

**TABLE – B**

| ENTRY SIZE | W ±0.020 | W ±0.508 | Y +0.008 -0.000 | Y +0.200 -0.000 | Z MAX | Z MAX |
|---|---|---|---|---|---|---|
| | INCH | MM | INCH | MM | INCH | MM |
| 01 | 0.250 | 6.350 | 0.044 | 1.12 | 0.56 | 14.22 |
| 02 | 0.312 | 7.920 | 0.044 | 1.12 | 0.63 | 16.00 |
| 03 | 0.375 | 9.530 | 0.044 | 1.12 | 0.69 | 17.53 |
| 04 | 0.438 | 11.130 | 0.044 | 1.12 | 0.75 | 19.05 |
| 05 | 0.500 | 12.700 | 0.044 | 1.12 | 0.82 | 20.83 |
| 06 | 0.562 | 14.270 | 0.044 | 1.12 | 0.89 | 22.61 |
| 07 | 0.625 | 15.880 | 0.044 | 1.12 | 0.95 | 24.13 |
| 08 | 0.688 | 17.480 | 0.044 | 1.12 | 1.02 | 25.91 |
| 09 | 0.750 | 19.050 | 0.069 | 1.75 | 1.07 | 27.18 |
| 10 | 0.812 | 20.620 | 0.069 | 1.75 | 1.13 | 28.70 |
| 11 | 0.875 | 22.230 | 0.069 | 1.75 | 1.19 | 30.23 |
| 12 | 0.938 | 23.830 | 0.069 | 1.75 | 1.26 | 32.00 |
| 13 | 1.000 | 25.400 | 0.069 | 1.75 | 1.32 | 33.53 |
| 14 | 1.125 | 28.575 | 0.069 | 1.75 | 1.47 | 37.34 |

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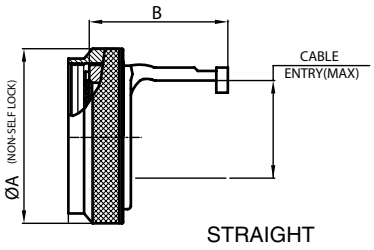
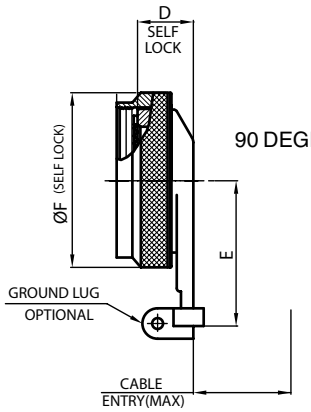
# For Connector Family K

**38999 Series II** **38999 Series I**

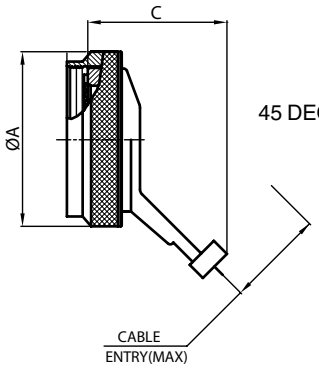
Connector Family "K", includes
MIL-DTL-38999 Series II and Series I




STRAIGHT




90 DEGREE




45 DEGREE

**MIL Part Number**

**M85049 / 56 – 10 W**

MIL Series

Slash Sheet:
56: Straight
63: 90°
57: 45°

Finish:
See Table-2
(pg. 486)

Dash Number:
See Table-A

Coupling:
S: Self-Lock (only for 90° and 45°)
G: Self-Lock with
grounding Lug (only for 90° and 45°)
–: Non Self-Lock

**TABLE – A**

| MIL PART NUMBER DESIGNATOR | CONNECTOR SHELL SIZE | A DIA.(MAX) | | B (MAX) | | C (MAX) | | D (MAX) | | E (MAX) | | F DIA.(MAX) | | CABLE ENTRY MAX | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DASH NO | SE – II / I | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 8 | 8 / 9 | 0.66 | 16.69 | 0.95 | 24.23 | 1.23 | 31.29 | 0.73 | 18.54 | 1.22 | 30.99 | 0.89 | 22.48 | 0.26 | 6.60 |
| 10 | 10 / 11 | 0.78 | 19.86 | 0.95 | 24.23 | 1.23 | 31.29 | 0.73 | 18.54 | 1.29 | 32.77 | 1.01 | 25.65 | 0.37 | 9.27 |
| 12 | 12 / 13 | 0.94 | 23.80 | 0.95 | 24.23 | 1.23 | 31.29 | 0.73 | 18.54 | 1.62 | 41.15 | 1.14 | 28.83 | 0.50 | 12.73 |
| 14 | 14 / 15 | 1.05 | 26.67 | 1.20 | 30.58 | 1.23 | 31.29 | 0.73 | 18.54 | 1.66 | 42.16 | 1.26 | 32.00 | 0.58 | 14.61 |
| 16 | 16 / 17 | 1.24 | 31.47 | 1.20 | 30.58 | 1.23 | 31.29 | 0.73 | 18.54 | 1.72 | 43.69 | 1.39 | 35.18 | 0.70 | 17.78 |
| 18 | 18 / 19 | 1.38 | 35.00 | 1.20 | 30.58 | 1.23 | 31.29 | 0.73 | 18.54 | 1.72 | 43.69 | 1.51 | 38.35 | 0.78 | 19.79 |
| 20 | 20 / 21 | 1.50 | 38.10 | 1.31 | 33.27 | 1.48 | 37.64 | 0.75 | 19.05 | 1.79 | 45.47 | 1.64 | 41.53 | 0.90 | 22.96 |
| 22 | 22 / 23 | 1.63 | 41.43 | 1.43 | 36.32 | 1.48 | 37.64 | 0.75 | 19.05 | 1.85 | 46.99 | 1.76 | 44.70 | 1.03 | 26.14 |
| 24 | 24 / 25 | 1.75 | 44.45 | 1.56 | 39.62 | 1.48 | 37.64 | 0.75 | 19.05 | 1.91 | 48.51 | 1.89 | 47.88 | 1.14 | 29.06 |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

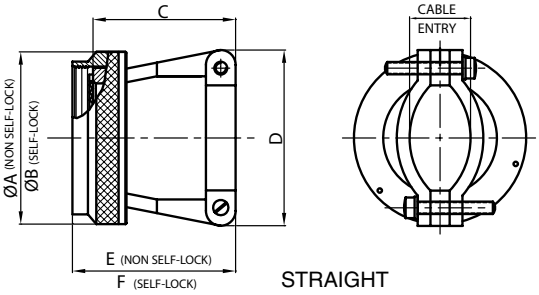
# Strain Relief Clamp

## Straight, 90° Self-Lock/Non Self-Lock

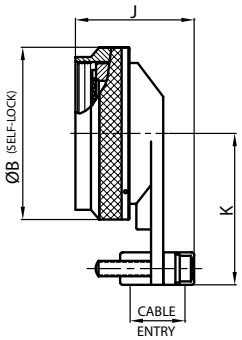
## For Connector Family K

**38999 Series II** | **38999 Series I**

Connector Family "K", includes MIL-DTL-38999 Series II and Series I




STRAIGHT




90 DEGREE

**MIL Part Number**

**M85049 / 47 – 10 W**

- MIL Series
- Slash Sheet: 49-2: Straight; 47: 90°
- Finish: See Table-2 (pg. 486)
- Dash Number: See Table-A
- Coupling: S: Self-Lock; –: Non Self-Lock

**TABLE – A**

| MIL PART NUMBER DESIGNATOR / DASH NO. | CONNECTOR SHELL SIZE SE – II / I | A DIA.(MAX) | | B DIA.(MAX) | | C (MAX) | | D (MAX) | | E (MAX) | | F (MAX) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 08 | 8 / 9 | 0.75 | 19.05 | 0.86 | 21.82 | 0.91 | 23.11 | 0.85 | 21.59 | 1.10 | 27.94 | 1.15 | 29.21 |
| 10 | 10 / 11 | 0.85 | 21.59 | 0.98 | 24.99 | 0.91 | 23.11 | 0.90 | 22.86 | 1.10 | 27.94 | 1.15 | 29.21 |
| 12 | 12 / 13 | 1.00 | 25.40 | 1.16 | 29.36 | 1.01 | 25.65 | 1.10 | 27.94 | 1.20 | 30.48 | 1.25 | 31.75 |
| 14 | 14 / 15 | 1.10 | 27.94 | 1.28 | 32.54 | 1.06 | 26.92 | 1.15 | 29.21 | 1.25 | 31.75 | 1.30 | 33.02 |
| 16 | 16 / 17 | 1.25 | 31.75 | 1.41 | 35.71 | 1.16 | 29.46 | 1.30 | 33.02 | 1.36 | 34.44 | 1.40 | 35.56 |
| 18 | 18 / 19 | 1.40 | 35.56 | 1.52 | 38.51 | 1.41 | 35.81 | 1.50 | 38.10 | 1.60 | 40.64 | 1.65 | 41.91 |
| 20 | 20 / 21 | 1.50 | 38.10 | 1.64 | 41.68 | 1.51 | 38.35 | 1.60 | 40.64 | 1.70 | 43.21 | 1.75 | 44.45 |
| 24 | 22 / 23 | 1.65 | 41.91 | 1.77 | 44.86 | 1.66 | 42.16 | 1.70 | 43.18 | 1.85 | 46.99 | 1.90 | 48.26 |
| 24 | 24 / 25 | 1.75 | 44.45 | 1.89 | 48.03 | 1.76 | 44.70 | 1.80 | 45.72 | 1.95 | 49.56 | 2.00 | 50.80 |

**TABLE – A, cont.**

| MIL PART NUMBER DESIGNATOR / DASH NO. | CONNECTOR SHELL SIZE SE – II / I | J (MAX) | | K (MAX) | | CABLE ENTRY | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | MIN | | MAX | |
| | | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 08 | 8 / 9 | 1.38 | 35.05 | 1.00 | 25.40 | 0.10 | 2.49 | 0.23 | 5.94 |
| 10 | 10 / 11 | 1.38 | 35.05 | 1.10 | 27.94 | 0.15 | 3.89 | 0.23 | 5.94 |
| 12 | 12 / 13 | 1.46 | 37.08 | 1.10 | 27.94 | 0.19 | 4.83 | 0.33 | 8.33 |
| 14 | 14 / 15 | 1.63 | 41.40 | 1.25 | 31.75 | 0.26 | 6.60 | 0.46 | 11.61 |
| 16 | 16 / 17 | 1.80 | 45.72 | 1.30 | 33.02 | 0.28 | 7.19 | 0.61 | 15.60 |
| 18 | 18 / 19 | 1.82 | 46.23 | 1.35 | 34.29 | 0.33 | 8.26 | 0.63 | 16.10 |
| 20 | 20 / 21 | 1.90 | 48.26 | 1.60 | 40.64 | 0.34 | 8.71 | 0.70 | 17.73 |
| 22 | 22 / 23 | 2.04 | 51.82 | 1.75 | 44.45 | 0.38 | 9.68 | 0.82 | 20.90 |
| 24 | 24 / 25 | 2.15 | 54.61 | 1.85 | 46.99 | 0.42 | 10.62 | 0.85 | 21.67 |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

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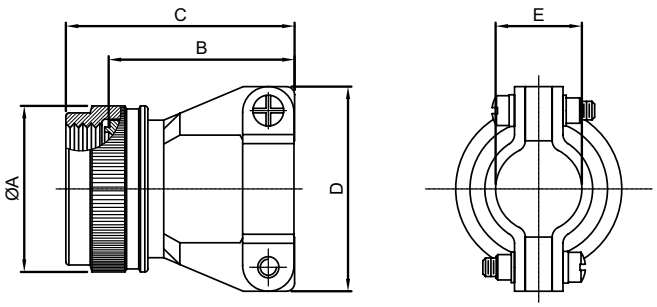
# For Connector Family K

**38999 Series II** **38999 Series I**

Connector Family "K", includes
MIL-DTL-38999 Series II and Series I




**MIL Part Number**

**M85049 / 121 – 10 W**

- MIL Series
- Slash Sheet: 121: Straight
- Finish: See Table-2 (pg. 486)
- Dash Number: See Table-A
- Coupling: S: Self-Lock –: Non Self-Lock

**TABLE – A**

| MIL PART NUMBER DESIGNATOR | CONNECTOR SHELL SIZE SE – II / I | A DIA.(MAX) | | B LENGTH | | C (MAX) | | D (MAX) | | E (CLOSED) ±.031 | E (CLOSED) ±.787 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DASH NO | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 08 | 08 | 0.86 | 21.79 | 0.77/0.51 | 19.56/12.95 | 1.01 | 25.65 | 0.88 | 22.35 | 0.22 | 5.56 |
| 10 | 10 | 0.98 | 24.99 | 0.89/0.64 | 22.61/16.26 | 1.13 | 28.70 | 0.94 | 23.88 | 0.26 | 6.71 |
| 12 | 12 | 1.16 | 29.39 | 1.01/0.76 | 25.65/19.30 | 1.25 | 31.75 | 1.12 | 28.45 | 0.34 | 8.74 |
| 14 | 14 | 1.28 | 32.49 | 1.01/0.76 | 25.65/19.30 | 1.25 | 31.75 | 1.19 | 30.23 | 0.46 | 11.68 |
| 16 | 16 | 1.41 | 35.71 | 1.13/0.88 | 28.70/22.35 | 1.37 | 34.80 | 1.44 | 36.58 | 0.55 | 13.84 |
| 18 | 18 | 1.52 | 38.51 | 1.38/1.13 | 35.05/28.70 | 1.62 | 41.15 | 1.56 | 39.62 | 0.62 | 15.62 |
| 20 | 20 | 1.64 | 41.71 | 1.51/1.25 | 38.35/31.75 | 1.75 | 44.45 | 1.69 | 42.93 | 0.69 | 17.53 |
| 22 | 22 | 1.77 | 44.91 | 1.62/1.38 | 41.15/35.05 | 1.87 | 47.50 | 1.75 | 44.45 | 0.78 | 19.81 |
| 24 | 24 | 1.87 | 47.47 | 1.76/1.51 | 44.70/38.35 | 2.00 | 50.80 | 1.88 | 47.75 | 0.85 | 21.59 |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

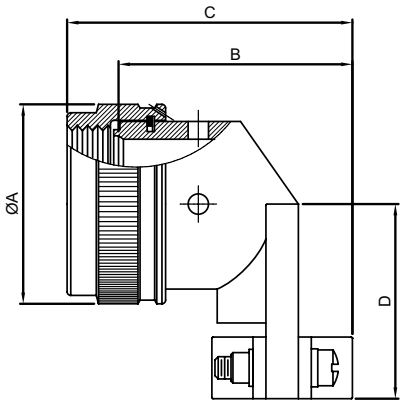
# Strain Relief Clamp

## 90°, Self-Lock/Non Self-Lock

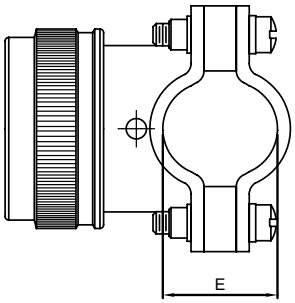
## For Connector Family K

**38999 Series II** **38999 Series I**

Connector Family "K", includes MIL-DTL-38999 Series II and Series I




90 DEGREE




**MIL Part Number**

**M85049 / 123 – 10 W**

- MIL Series
- Slash Sheet: 123: 90°
- Finish: See Table-2 (pg. 486)
- Dash Number: See Table-A
- Coupling: S: Self-Lock –: Non Self-Lock

**TABLE – A**

| MIL PART NUMBER DESIGNATOR | CONNECTOR SHELL SIZE SE – II / I | A DIA.(MAX) | | B (MAX) | | C (MAX) | | D (MAX) | | E (CLOSED) ±.031 | E (CLOSED) ±.787 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DASH NO | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 08 | 08 | 0.86 | 21.79 | 0.86 | 21.84 | 1.10 | 27.94 | 0.81 | 20.57 | 0.22 | 5.56 |
| 10 | 10 | 0.98 | 24.99 | 0.94 | 23.88 | 1.18 | 29.97 | 0.87 | 22.10 | 0.26 | 6.71 |
| 12 | 12 | 1.16 | 29.39 | 1.14 | 28.96 | 1.38 | 35.05 | 0.93 | 23.62 | 0.34 | 8.74 |
| 14 | 14 | 1.28 | 32.49 | 1.20 | 30.48 | 1.44 | 36.58 | 0.99 | 25.15 | 0.46 | 11.68 |
| 16 | 16 | 1.41 | 35.71 | 1.34 | 34.04 | 1.58 | 40.13 | 1.06 | 26.92 | 0.55 | 13.84 |
| 18 | 18 | 1.52 | 38.51 | 1.46 | 37.08 | 1.70 | 43.18 | 1.23 | 31.24 | 0.62 | 15.62 |
| 20 | 20 | 1.64 | 41.71 | 1.58 | 40.13 | 1.82 | 46.23 | 1.30 | 33.02 | 0.70 | 17.73 |
| 22 | 22 | 1.77 | 44.91 | 1.71 | 43.43 | 1.95 | 49.53 | 1.36 | 34.54 | 0.78 | 19.81 |
| 24 | 24 | 1.87 | 47.47 | 1.83 | 46.48 | 2.07 | 52.58 | 1.42 | 36.07 | 0.85 | 21.59 |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

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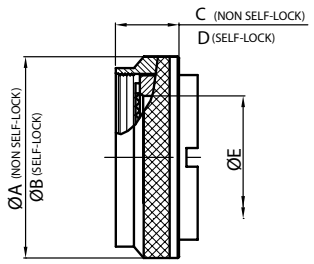
# For Connector Family K

**38999 Series II** **38999 Series I** Connector Family "K", includes MIL-DTL-38999 Series II and Series I




**MIL Part Number**

**M85049 / 27 – 10 W**

- MIL Series
- Slash Sheet: 27: Straight
- Finish: See Table-2 (pg. 486)
- Dash Number: See Table-A
- Coupling: S: Self-Lock –: Non Self-Lock

Note: * Slot shown in figure is optional for Non Self-Lock

**TABLE-A**

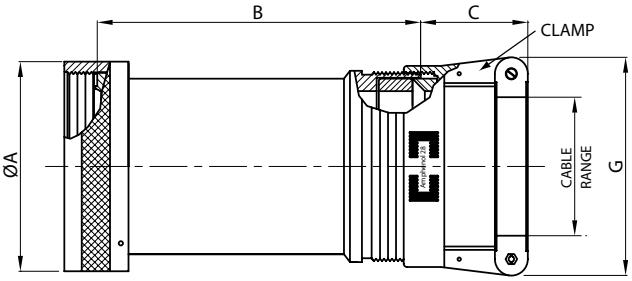
| MIL PART NUMBER DESIGNATOR | CONNECTOR SHELL SIZE SE – II / I | A DIA. (MAX) | | B DIA. (MAX) | | C (MAX) | | D (MAX) | | E DIA. (MAX) | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DASH NO. | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 08 | 8 / 9 | 0.75 | 19.05 | 0.86 | 21.82 | 0.54 | 13.72 | 0.59 | 14.99 | 0.27 | 6.86 |
| 10 | 10 / 11 | 0.85 | 21.59 | 0.98 | 24.99 | 0.54 | 13.72 | 0.59 | 14.99 | 0.41 | 10.41 |
| 12 | 12 / 13 | 1.00 | 25.40 | 1.16 | 29.36 | 0.54 | 13.72 | 0.59 | 14.99 | 0.53 | 13.46 |
| 14 | 14 / 15 | 1.10 | 27.94 | 1.28 | 32.54 | 0.54 | 13.72 | 0.59 | 14.99 | 0.65 | 16.51 |
| 16 | 16 / 17 | 1.25 | 31.75 | 1.41 | 35.71 | 0.54 | 13.72 | 0.59 | 14.99 | 0.78 | 19.81 |
| 18 | 18 / 19 | 1.40 | 35.56 | 1.52 | 38.51 | 0.54 | 13.72 | 0.59 | 14.99 | 0.88 | 22.35 |
| 20 | 20 / 21 | 1.50 | 38.10 | 1.64 | 41.68 | 0.54 | 13.72 | 0.59 | 14.99 | 1.01 | 25.65 |
| 22 | 22 / 23 | 1.65 | 41.91 | 1.77 | 44.86 | 0.54 | 13.72 | 0.59 | 14.99 | 1.13 | 28.70 |
| 24 | 24 / 25 | 1.75 | 44.45 | 1.89 | 48.03 | 0.54 | 13.72 | 0.59 | 14.99 | 1.26 | 32.00 |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

# For Connector Family J

**26482 Matrix Series 2** | **5015 Matrix (MS345X)** | **83723 Matrix & Pyle Series III**

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III




**MIL Part Number**

M85049 / 11 -10 W

- MIL Series
- Slash Sheet: 11: Straight, Spin Coupling
- Finish: See Table-2 (pg. 486)
- Dash Number: See Table-A

**TABLE – A**

| MIL PART NUMBER DESIGNATOR | | CONNECTOR SHELL SIZE | A DIA. (MAX) | | B (MAX) | | C (REF) L MAX | | G (MAX) L MAX | | CABLE RANGE | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | MIN WIRE | | MAX WIRE | |
| SHELL SIZE | DASH NO | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 08 | 05 | 8 | 0.62 | 15.67 | 2.13 | 54.10 | 1.03 | 26.09 | 0.96 | 24.31 | 0.13 | 3.18 | 0.25 | 6.35 |
| | 06 | | 0.62 | 15.67 | 3.13 | 79.50 | 1.03 | 26.09 | 0.96 | 24.31 | 0.13 | 3.18 | 0.25 | 6.35 |
| | 07* | | 0.62 | 15.67 | 2.88 | 73.15 | 1.03 | 26.09 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 08* | | 0.62 | 15.67 | 3.88 | 98.55 | 1.03 | 26.09 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| 10 | 09 | 10 | 0.73 | 18.64 | 2.13 | 54.10 | 1.03 | 26.09 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 10 | | 0.73 | 18.64 | 3.13 | 79.50 | 1.03 | 26.09 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 11* | | 0.73 | 18.64 | 2.88 | 73.15 | 1.03 | 26.09 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 12* | | 0.73 | 18.64 | 3.88 | 98.55 | 1.03 | 26.09 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 136 | | 0.73 | 18.64 | 2.13 | 54.10 | 1.03 | 26.09 | 1.15 | 29.08 | 0.25 | 6.35 | 0.38 | 9.53 |
| | 137 | | 0.73 | 18.64 | 3.13 | 79.50 | 1.03 | 26.09 | 1.15 | 29.08 | 0.25 | 6.35 | 0.38 | 9.53 |
| 12 | 13 | 7/12 | 0.86 | 21.79 | 2.13 | 54.10 | 1.03 | 26.09 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 14 | | 0.86 | 21.79 | 3.13 | 79.50 | 1.03 | 26.09 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 15* | | 0.86 | 21.79 | 2.88 | 73.15 | 1.03 | 26.09 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 16* | | 0.86 | 21.79 | 3.88 | 98.55 | 1.03 | 26.09 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 111 | | 0.86 | 21.79 | 2.13 | 54.10 | 1.03 | 26.09 | 1.33 | 33.83 | 0.35 | 8.89 | 0.50 | 12.70 |
| | 114 | | 0.86 | 21.79 | 2.13 | 54.10 | 1.03 | 26.09 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 115 | | 0.86 | 21.79 | 3.13 | 79.50 | 1.03 | 26.09 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 138 | | 0.86 | 21.79 | 2.13 | 54.10 | 1.03 | 26.09 | 1.33 | 33.83 | 0.35 | 8.89 | 0.50 | 12.70 |
| | 139 | | 0.86 | 21.79 | 3.13 | 79.50 | 1.03 | 26.09 | 1.33 | 33.83 | 0.35 | 8.89 | 0.50 | 12.70 |
| 14 | 17 | 12/14 | 0.98 | 24.99 | 2.13 | 54.10 | 1.03 | 26.09 | 1.33 | 33.83 | 0.35 | 8.89 | 0.58 | 14.61 |
| | 18 | | 0.98 | 24.99 | 3.13 | 79.50 | 1.03 | 26.09 | 1.33 | 33.83 | 0.35 | 8.89 | 0.58 | 14.61 |
| | 19* | | 0.98 | 24.99 | 2.88 | 73.15 | 1.06 | 26.90 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 20* | | 0.98 | 24.99 | 3.88 | 98.55 | 1.06 | 26.90 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 116 | | 0.98 | 24.99 | 2.13 | 54.10 | 1.03 | 26.09 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 117 | | 0.98 | 24.99 | 3.13 | 79.50 | 1.03 | 26.09 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 150 | | 0.98 | 24.99 | 2.13 | 54.10 | 1.03 | 26.09 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 151 | | 0.98 | 24.99 | 3.13 | 79.50 | 1.03 | 26.09 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| 16 | 21 | 19/16 | 1.11 | 28.24 | 2.13 | 54.10 | 1.06 | 26.90 | 1.55 | 39.40 | 0.50 | 12.70 | 0.70 | 17.78 |
| | 22 | | 1.11 | 28.24 | 3.13 | 79.50 | 1.06 | 26.90 | 1.55 | 39.40 | 0.50 | 12.70 | 0.70 | 17.78 |
| | 23* | | 1.11 | 28.24 | 2.88 | 73.15 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 24* | | 1.11 | 28.24 | 3.88 | 98.55 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 112 | | 1.11 | 28.24 | 2.13 | 54.10 | 1.03 | 26.09 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 113 | | 1.11 | 28.24 | 3.13 | 79.50 | 1.03 | 26.09 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |

* Denotes Style-2 (see page 486)

TABLE CONTINUES ON NEXT PAGE

For more cable entry and length options see page 486 or email: sales@backshellworld.com
All dimensions for reference only.

# For Connector Family J

**26482 Matrix Series 2** **5015 Matrix (MS345X)**
**83723 Matrix & Pyle Series III**

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III

**TABLE – A**

| MIL PART NUMBER DESIGNATOR | | CONNECTOR SHELL SIZE | A DIA. (MAX) | | B (MAX) | | C (REF) L MAX | | G (MAX) L MAX | | CABLE RANGE | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | MIN WIRE | | MAX WIRE | |
| SHELL SIZE | DASH NO | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 16, cont. | 118 | 19/16 | 1.11 | 28.24 | 2.13 | 54.10 | 1.03 | 26.09 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 119 | | 1.11 | 28.24 | 3.13 | 79.50 | 1.03 | 26.09 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 152 | | 1.11 | 28.24 | 2.13 | 54.10 | 1.03 | 26.09 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 153 | | 1.11 | 28.24 | 3.13 | 79.50 | 1.03 | 26.09 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| 18 | 25 | 27/18 | 1.22 | 30.94 | 2.13 | 54.10 | 1.03 | 26.09 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 26 | | 1.22 | 30.94 | 3.13 | 79.50 | 1.03 | 26.09 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 27 | | 1.22 | 30.94 | 2.13 | 54.10 | 1.06 | 26.90 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 28 | | 1.22 | 30.94 | 3.13 | 79.50 | 1.06 | 26.90 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 29* | | 1.22 | 30.94 | 2.88 | 73.15 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 30* | | 1.22 | 30.94 | 3.88 | 98.55 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 120 | | 1.22 | 30.94 | 2.13 | 54.10 | 1.03 | 26.09 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 121 | | 1.22 | 30.94 | 3.13 | 79.50 | 1.03 | 26.09 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 122 | | 1.22 | 30.94 | 2.13 | 54.10 | 1.03 | 26.09 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 123 | | 1.22 | 30.94 | 3.13 | 79.50 | 1.03 | 26.09 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| 20 | 31 | 37/20 | 1.35 | 34.16 | 3.13 | 79.50 | 1.03 | 26.09 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 32 | | 1.35 | 34.16 | 4.13 | 104.90 | 1.03 | 26.09 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 33 | | 1.35 | 34.16 | 3.13 | 79.50 | 1.06 | 26.90 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 34 | | 1.35 | 34.16 | 4.13 | 104.90 | 1.06 | 26.90 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 35* | | 1.35 | 34.16 | 3.88 | 98.55 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 36* | | 1.35 | 34.16 | 4.88 | 123.95 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 37* | | 1.35 | 34.16 | 3.88 | 98.55 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 38* | | 1.35 | 34.16 | 4.88 | 123.95 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 124 | | 1.35 | 34.16 | 3.13 | 79.50 | 1.03 | 26.09 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 125 | | 1.35 | 34.16 | 4.13 | 104.90 | 1.03 | 26.09 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 140 | | 1.35 | 34.16 | 3.13 | 79.50 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.90 | 22.96 |
| | 141 | | 1.35 | 34.16 | 4.13 | 104.90 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.90 | 22.96 |
| 22 | 39 | 22 | 1.47 | 37.29 | 3.13 | 79.50 | 1.03 | 26.09 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 40 | | 1.47 | 37.29 | 4.13 | 104.90 | 1.03 | 26.09 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 41 | | 1.47 | 37.29 | 3.13 | 79.50 | 1.06 | 26.90 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 42 | | 1.47 | 37.29 | 4.13 | 104.90 | 1.06 | 26.90 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 43 | | 1.47 | 37.29 | 3.13 | 79.50 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 44 | | 1.47 | 37.29 | 4.13 | 104.90 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 45* | | 1.47 | 37.29 | 3.88 | 98.55 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 46* | | 1.47 | 37.29 | 4.88 | 123.95 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 126 | | 1.47 | 37.29 | 3.13 | 79.50 | 1.03 | 26.09 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 127 | | 1.47 | 37.29 | 4.13 | 104.90 | 1.03 | 26.09 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 128 | | 1.47 | 37.29 | 3.13 | 79.50 | 1.03 | 26.09 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 129 | | 1.47 | 37.29 | 4.13 | 104.90 | 1.03 | 26.09 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 142 | | 1.47 | 37.29 | 3.13 | 79.50 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.03 | 26.14 |
| | 143 | | 1.47 | 37.29 | 4.13 | 104.90 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.03 | 26.14 |
| 24 | 47 | 24 | 1.59 | 40.46 | 3.13 | 79.50 | 1.06 | 26.90 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 48 | | 1.59 | 40.46 | 4.13 | 104.90 | 1.06 | 26.90 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 49 | | 1.59 | 40.46 | 3.13 | 79.50 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.81 | 20.62 |
| | 50 | | 1.59 | 40.46 | 4.13 | 104.90 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.81 | 20.62 |
| | 51 | | 1.59 | 40.46 | 3.13 | 79.50 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 52 | | 1.59 | 40.46 | 4.13 | 104.90 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 53* | | 1.59 | 40.46 | 3.88 | 98.55 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 54* | | 1.59 | 40.46 | 4.88 | 123.95 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 130 | | 1.59 | 40.46 | 3.13 | 79.50 | 1.03 | 26.09 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 131 | | 1.59 | 40.46 | 4.13 | 104.90 | 1.03 | 26.09 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 144 | | 1.59 | 40.46 | 3.13 | 79.50 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.14 | 29.06 |
| | 145 | | 1.59 | 40.46 | 4.13 | 104.90 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.14 | 29.06 |
| 28 | 55 | 28 | 1.97 | 50.01 | 3.13 | 79.50 | 1.06 | 26.90 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 56 | | 1.97 | 50.01 | 4.13 | 104.90 | 1.06 | 26.90 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 57 | | 1.97 | 50.01 | 3.13 | 79.50 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 58 | | 1.97 | 50.01 | 4.13 | 104.90 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |

* Denotes Style-2 (see page 486). For more cable entry and length options see page 486 or email: sales@backshellworld.com.
All dimensions for reference only.

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# For Connector Family J

**26482 Matrix Series 2** | **5015 Matrix (MS345X)** | **83723 Matrix & Pyle Series III**

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III

**TABLE – A**

| MIL PART NUMBER DESIGNATOR | | CONNECTOR SHELL SIZE | A DIA. (MAX) | | B (MAX) | | C (REF) L MAX | | G (MAX) L MAX | | CABLE RANGE MIN WIRE | | CABLE RANGE MAX WIRE | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SHELL SIZE | DASH NO | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 28, cont. | 59 | 28 | 1.97 | 50.01 | 3.13 | 79.50 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 60 | | 1.97 | 50.01 | 4.13 | 104.90 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 61 | | 1.97 | 50.01 | 3.13 | 79.50 | 1.50 | 38.10 | 23.63 | 600.20 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 62 | | 1.97 | 50.01 | 4.13 | 104.90 | 1.50 | 38.10 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| 32 | 63 | 32 | 2.22 | 56.36 | 3.13 | 79.50 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 64 | | 2.22 | 56.36 | 4.13 | 104.90 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 65 | | 2.22 | 56.36 | 3.13 | 79.50 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 12.50 | 317.50 |
| | 66 | | 2.22 | 56.36 | 4.13 | 104.90 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 67 | | 2.22 | 56.36 | 3.13 | 79.50 | 1.50 | 38.10 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 68 | | 2.22 | 56.36 | 4.13 | 104.90 | 1.50 | 38.10 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 69 | | 2.22 | 56.36 | 3.13 | 79.50 | 1.78 | 45.24 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| | 70 | | 2.22 | 56.36 | 4.13 | 104.90 | 1.78 | 45.24 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| 36 | 71 | 36 | 2.47 | 62.71 | 4.13 | 104.90 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 72 | | 2.47 | 62.71 | 5.13 | 130.30 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 73 | | 2.47 | 62.71 | 4.13 | 104.90 | 1.50 | 38.10 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 74 | | 2.47 | 62.71 | 5.13 | 130.30 | 1.50 | 38.10 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 75 | | 2.47 | 62.71 | 4.13 | 104.90 | 1.78 | 45.24 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| | 76 | | 2.47 | 62.71 | 5.13 | 130.30 | 1.78 | 45.24 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| | 77* | | 2.47 | 62.71 | 5.01 | 127.25 | 1.83 | 46.48 | 3.02 | 76.71 | 1.44 | 36.50 | 1.88 | 47.63 |
| | 78* | | 2.47 | 62.71 | 6.01 | 152.65 | 1.83 | 46.48 | 3.02 | 76.71 | 1.44 | 36.50 | 1.88 | 47.63 |
| | 132 | | 2.47 | 62.71 | 4.13 | 104.90 | 1.06 | 26.90 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 133 | | 2.47 | 62.71 | 5.13 | 130.30 | 1.06 | 26.90 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 146 | | 2.47 | 62.71 | 4.13 | 104.90 | 1.83 | 46.48 | 3.02 | 76.71 | 1.44 | 36.50 | 1.84 | 46.74 |
| | 147 | | 2.47 | 62.71 | 5.13 | 130.30 | 1.83 | 46.48 | 3.02 | 76.71 | 1.44 | 36.50 | 1.84 | 46.74 |
| | 148 | | 2.47 | 62.71 | 4.13 | 104.90 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 149 | | 2.47 | 62.71 | 5.13 | 130.30 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| 40 | 79 | 40 | 2.72 | 69.06 | 4.13 | 104.90 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 80 | | 2.72 | 69.06 | 5.13 | 130.30 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 81 | | 2.72 | 69.06 | 4.13 | 104.90 | 1.50 | 38.10 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 82 | | 2.72 | 69.06 | 5.13 | 130.30 | 1.50 | 38.10 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 83 | | 2.72 | 69.06 | 4.13 | 104.90 | 1.78 | 45.24 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| | 84 | | 2.72 | 69.06 | 5.13 | 130.30 | 1.78 | 45.24 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| | 85 | | 2.72 | 69.06 | 4.13 | 104.90 | 1.83 | 46.48 | 3.02 | 76.71 | 1.44 | 36.50 | 1.88 | 47.63 |
| | 86 | | 2.72 | 69.06 | 5.13 | 130.30 | 1.83 | 46.48 | 3.02 | 76.71 | 1.44 | 36.50 | 1.88 | 47.63 |
| | 134 | | 2.72 | 69.06 | 4.13 | 104.90 | 1.06 | 26.90 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 135 | | 2.72 | 69.06 | 5.13 | 130.30 | 1.06 | 26.90 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 156 | | 2.72 | 69.06 | 4.13 | 104.90 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 157 | | 2.72 | 69.06 | 5.13 | 130.30 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| 44 | 87 | 44 | 2.97 | 75.41 | 4.13 | 104.90 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 88 | | 2.97 | 75.41 | 5.13 | 130.30 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 89 | | 2.97 | 75.41 | 4.13 | 104.90 | 1.50 | 38.10 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 90 | | 2.97 | 75.41 | 5.13 | 130.30 | 1.50 | 38.10 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 91 | | 2.97 | 75.41 | 4.13 | 104.90 | 1.78 | 45.24 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| | 92 | | 2.97 | 75.41 | 5.13 | 130.30 | 1.78 | 45.24 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| | 93 | | 2.97 | 75.41 | 4.13 | 104.90 | 1.83 | 46.48 | 3.02 | 76.71 | 1.44 | 36.50 | 1.88 | 47.63 |
| | 94 | | 2.97 | 75.41 | 5.13 | 130.30 | 1.83 | 46.48 | 3.02 | 76.71 | 1.44 | 36.50 | 1.88 | 47.63 |
| | 154 | | 2.97 | 75.41 | 4.13 | 104.90 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 155 | | 2.97 | 75.41 | 5.13 | 130.30 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| 48 | 95 | 48 | 3.22 | 81.76 | 4.13 | 104.90 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 96 | | 3.22 | 81.76 | 5.13 | 130.30 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 97 | | 3.22 | 81.76 | 4.13 | 104.90 | 1.50 | 38.10 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 98 | | 3.22 | 81.76 | 5.13 | 130.30 | 1.50 | 38.10 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 99 | | 3.22 | 81.76 | 4.13 | 104.90 | 1.78 | 45.24 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| | 100 | | 3.22 | 81.76 | 5.13 | 130.30 | 1.78 | 45.24 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| | 101 | | 3.22 | 81.76 | 4.13 | 104.90 | 1.83 | 46.48 | 3.02 | 76.71 | 1.44 | 36.50 | 1.88 | 47.63 |
| | 102 | | 3.22 | 81.76 | 5.13 | 130.30 | 1.83 | 46.48 | 3.02 | 76.71 | 1.44 | 36.50 | 1.88 | 47.63 |

All dimensions for reference only.

* Denotes Style-2 (see page 486). For more cable entry and length options see page 486 or email: sales@backshellworld.com.

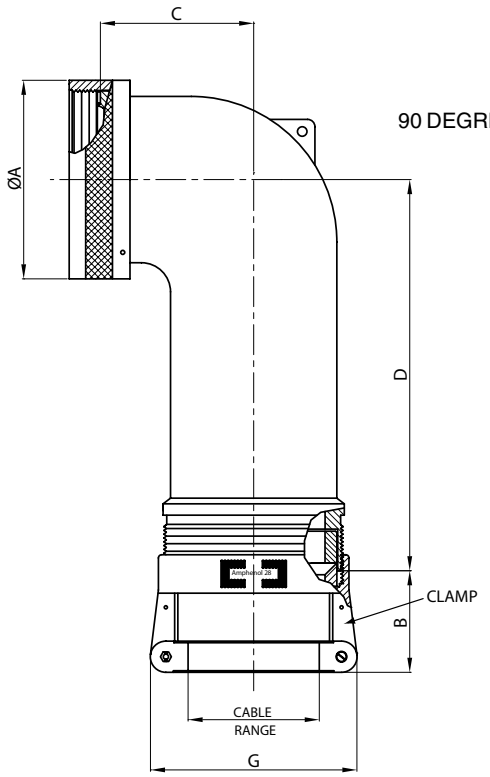
Amphenol

# For Connector Family J

**26482 Matrix Series 2** **5015 Matrix (MS345X)**

**83723 Matrix & Pyle Series III**

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III




**MIL Part Number**

**M85049 / 9 -10 W**

- MIL Series
- Slash Sheet: 9: 90°, Spin Coupling; 7: 45°, Spin Coupling
- Dash Number: See Table-A
- Finish: See Table-2 (pg. 486)

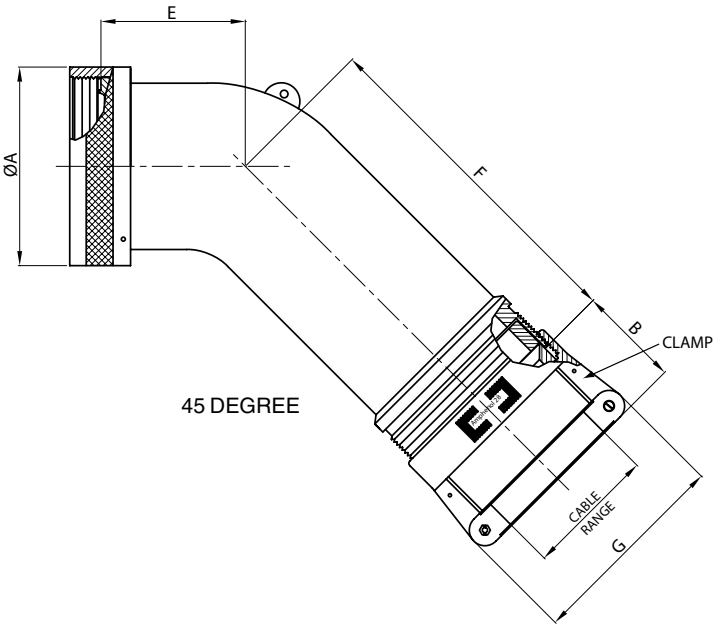



**TABLE – A**

| MIL PART NUMBER DESIGNATOR | | CONNECTOR SHELL SIZE | A DIA. (MAX) | | B (REF) | | C (MAX) | | D (MAX) | | E (MAX) | | F (MAX) | | G (MAX) | | CABLE RANGE | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | MIN WIRE | | MAX WIRE | |
| SHELL SIZE | DASH NO | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 08 | 3 | 8 | 0.62 | 15.67 | 1.03 | 26.09 | 0.67 | 17.02 | 1.26 | 32.00 | 0.63 | 16.00 | 1.25 | 31.75 | 0.96 | 24.31 | 0.13 | 3.18 | 0.25 | 6.35 |
| 10 | 4 | 10 | 0.73 | 18.64 | 1.03 | 26.09 | 0.76 | 19.30 | 1.98 | 50.29 | 0.69 | 17.53 | 1.92 | 48.77 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 49* | | 0.73 | 18.64 | 1.03 | 26.09 | 1.52 | 38.61 | 2.00 | 50.80 | 1.50 | 38.10 | 1.98 | 50.29 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 5 | | 0.73 | 18.64 | 1.03 | 26.09 | 0.76 | 19.30 | 1.38 | 35.05 | 0.69 | 17.53 | 1.31 | 33.27 | 1.15 | 29.08 | 0.25 | 6.35 | 0.38 | 9.53 |
| 12 | 6 | 7/12 | 0.86 | 21.79 | 1.03 | 26.09 | 0.77 | 19.56 | 2.00 | 50.80 | 0.75 | 19.05 | 1.98 | 50.29 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 71* | | 0.86 | 21.79 | 1.03 | 26.09 | 1.81 | 45.97 | 2.16 | 54.86 | 1.65 | 41.91 | 2.18 | 55.37 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 7 | | 0.86 | 21.79 | 1.03 | 26.09 | 0.77 | 19.56 | 2.00 | 50.80 | 0.75 | 19.05 | 1.98 | 50.29 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 8 | | 0.86 | 21.79 | 1.03 | 26.09 | 0.77 | 19.56 | 1.40 | 35.56 | 0.75 | 19.05 | 1.98 | 50.29 | 1.33 | 33.83 | 0.35 | 8.89 | 0.50 | 12.70 |
| 14 | 9 | 12/14 | 0.98 | 24.99 | 1.03 | 26.09 | 0.87 | 22.10 | 2.07 | 52.58 | 0.81 | 20.57 | 2.07 | 52.58 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 10 | | 0.98 | 24.99 | 1.03 | 26.09 | 0.87 | 22.10 | 1.72 | 43.69 | 0.81 | 20.57 | 1.72 | 43.69 | 1.33 | 33.83 | 0.35 | 8.89 | 0.58 | 14.61 |
| | 50* | | 0.98 | 24.99 | 1.06 | 26.90 | 1.89 | 48.01 | 2.33 | 59.18 | 1.84 | 46.74 | 2.37 | 60.20 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 74 | | 0.98 | 24.99 | 1.03 | 26.09 | 0.87 | 22.10 | 2.07 | 52.58 | 0.81 | 20.57 | 2.07 | 52.58 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| 16 | 11 | 19/16 | 1.11 | 28.24 | 1.03 | 26.09 | 1.05 | 26.67 | 2.16 | 54.86 | 0.91 | 23.11 | 2.18 | 55.37 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 12 | | 1.11 | 28.24 | 1.06 | 26.90 | 1.05 | 26.67 | 1.81 | 45.97 | 0.91 | 23.11 | 1.82 | 46.23 | 1.55 | 39.40 | 0.50 | 12.70 | 0.70 | 17.78 |
| | 40 | | 1.11 | 28.24 | 1.03 | 26.09 | 1.05 | 26.67 | 2.16 | 54.86 | 0.91 | 23.11 | 2.18 | 55.37 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 51* | | 1.11 | 28.24 | 1.16 | 29.36 | 2.04 | 51.82 | 2.44 | 61.98 | 1.94 | 49.28 | 2.52 | 64.01 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 75 | | 1.11 | 28.24 | 1.03 | 26.09 | 1.05 | 26.67 | 2.16 | 54.86 | 0.91 | 23.11 | 2.18 | 55.37 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |

* Denotes Style-2 (see page 486)

TABLE CONTINUES ON NEXT PAGE

For more cable entry and length options see page 486 or email: sales@backshellworld.com
All dimensions for reference only.

# For Connector Family J

**26482 Matrix Series 2** | **5015 Matrix (MS345X)** | **83723 Matrix & Pyle Series III**

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III

**TABLE A**

| MIL PART NUMBER DESIGNATOR | | CONNECTOR SHELL SIZE | A DIA. (MAX) | | B (REF) | | C (MAX) | | D (MAX) | | E (MAX) | | F (MAX) | | G (MAX) | | CABLE RANGE | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | MIN WIRE | | MAX WIRE | |
| SHELL SIZE | DASH NO | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 18 | 13 | 27/18 | 1.22 | 30.94 | 1.03 | 26.09 | 1.14 | 28.96 | 2.33 | 59.18 | 1.09 | 27.69 | 2.37 | 60.20 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 14 | | 1.22 | 30.94 | 1.16 | 29.36 | 1.14 | 28.96 | 1.98 | 50.29 | 1.09 | 27.69 | 2.00 | 50.80 | 1.77 | 44.96 | 0.63 | 15.88 | 0.78 | 19.79 |
| | 41 | | 1.22 | 30.94 | 1.03 | 26.09 | 1.14 | 28.96 | 2.33 | 59.18 | 1.09 | 27.69 | 2.37 | 60.20 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 42 | | 1.22 | 30.94 | 1.03 | 26.09 | 1.14 | 28.96 | 2.33 | 59.18 | 1.09 | 27.69 | 2.37 | 60.20 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 52 | | 1.22 | 30.94 | 1.06 | 26.90 | 1.14 | 28.96 | 2.33 | 59.18 | 1.09 | 27.69 | 2.37 | 60.20 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 72* | | 1.22 | 30.94 | 1.16 | 29.36 | 2.05 | 52.07 | 2.44 | 61.98 | 1.94 | 49.28 | 2.52 | 64.01 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| 20 | 15 | 37/20 | 1.35 | 34.16 | 1.03 | 26.09 | 1.14 | 28.96 | 2.33 | 59.18 | 1.09 | 27.69 | 2.37 | 60.20 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 16 | | 1.35 | 34.16 | 1.16 | 29.36 | 1.14 | 28.96 | 1.98 | 50.29 | 1.09 | 27.69 | 2.00 | 50.80 | 1.77 | 44.96 | 0.63 | 15.88 | 0.90 | 22.96 |
| | 43 | | 1.35 | 34.16 | 1.03 | 26.09 | 1.14 | 28.96 | 2.33 | 59.18 | 1.09 | 27.69 | 2.37 | 60.20 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 54 | | 1.35 | 34.16 | 1.06 | 26.90 | 1.14 | 28.96 | 2.33 | 59.18 | 1.09 | 27.69 | 2.37 | 60.20 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 55 | | 1.35 | 34.16 | 1.38 | 34.93 | 2.14 | 54.36 | 2.61 | 66.29 | 2.06 | 52.32 | 2.57 | 65.28 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| 22 | 17 | 22 | 1.47 | 37.29 | 1.06 | 26.90 | 1.29 | 32.77 | 2.44 | 61.98 | 1.19 | 30.23 | 2.52 | 64.01 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 18 | | 1.47 | 37.29 | 1.38 | 34.93 | 1.29 | 32.77 | 2.09 | 53.09 | 1.19 | 30.23 | 2.16 | 54.86 | 2.11 | 53.67 | 0.88 | 22.23 | 1.03 | 26.14 |
| | 44 | | 1.47 | 37.29 | 1.03 | 26.09 | 1.29 | 32.77 | 2.44 | 61.98 | 1.19 | 30.23 | 2.52 | 64.01 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 45 | | 1.47 | 37.29 | 1.03 | 26.09 | 1.29 | 32.77 | 2.44 | 61.98 | 1.19 | 30.23 | 2.52 | 64.01 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 56 | | 1.47 | 37.29 | 1.03 | 26.09 | 1.29 | 32.77 | 2.44 | 61.98 | 1.19 | 30.23 | 2.52 | 64.01 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 57 | | 1.47 | 37.29 | 1.16 | 29.36 | 1.29 | 32.77 | 2.44 | 61.98 | 1.19 | 30.23 | 2.52 | 64.01 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 58* | | 1.47 | 37.29 | 1.38 | 34.93 | 2.14 | 54.36 | 2.61 | 66.29 | 2.06 | 52.32 | 2.57 | 65.28 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| 24 | 19 | 24 | 1.59 | 40.46 | 1.06 | 26.90 | 1.29 | 32.77 | 2.44 | 61.98 | 1.19 | 30.23 | 2.52 | 64.01 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 20 | | 1.59 | 40.46 | 1.38 | 34.93 | 1.29 | 32.77 | 2.09 | 53.09 | 1.19 | 30.23 | 2.16 | 54.86 | 2.11 | 53.67 | 0.88 | 22.23 | 1.14 | 29.06 |
| | 46 | | 1.59 | 40.46 | 1.03 | 26.09 | 1.29 | 32.77 | 2.44 | 61.98 | 1.19 | 30.23 | 2.52 | 64.01 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 59 | | 1.59 | 40.46 | 1.16 | 29.36 | 1.29 | 32.77 | 2.44 | 61.98 | 1.19 | 30.23 | 2.52 | 64.01 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 73* | | 1.59 | 40.46 | 1.38 | 34.93 | 2.15 | 54.61 | 2.61 | 66.29 | 2.06 | 52.32 | 2.57 | 65.28 | 2.12 | 53.75 | 0.88 | 22.23 | 1.25 | 31.75 |
| 28 | 21 | 28 | 1.97 | 50.01 | 1.16 | 29.36 | 1.39 | 35.31 | 2.61 | 66.29 | 1.31 | 33.27 | 2.57 | 65.28 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 22 | | 1.97 | 50.01 | 1.50 | 38.10 | 1.39 | 35.31 | 2.26 | 57.40 | 1.31 | 33.27 | 2.22 | 56.39 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 60 | | 1.97 | 50.01 | 1.06 | 26.90 | 1.39 | 35.31 | 2.61 | 66.29 | 1.31 | 33.27 | 2.57 | 65.28 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 61 | | 1.97 | 50.01 | 1.38 | 34.93 | 1.39 | 35.31 | 2.61 | 66.29 | 1.31 | 33.27 | 2.57 | 65.28 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| 32 | 23 | 32 | 2.22 | 56.36 | 1.16 | 29.36 | 1.74 | 44.20 | 2.86 | 72.64 | 1.38 | 35.05 | 2.67 | 67.82 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 24 | | 2.22 | 56.36 | 1.38 | 34.93 | 1.74 | 44.20 | 2.86 | 72.64 | 1.38 | 35.05 | 2.67 | 67.82 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 25 | | 2.22 | 56.36 | 1.78 | 45.24 | 1.74 | 44.20 | 2.51 | 63.75 | 1.38 | 35.05 | 2.32 | 58.93 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| | 62 | | 2.22 | 56.36 | 1.50 | 38.10 | 1.74 | 44.20 | 2.86 | 72.64 | 1.38 | 35.05 | 2.67 | 67.82 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| 36 | 26 | 36 | 2.47 | 62.71 | 1.16 | 29.36 | 1.94 | 49.28 | 2.83 | 71.88 | 1.41 | 35.81 | 2.76 | 70.10 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 27 | | 2.47 | 62.71 | 1.50 | 38.10 | 1.94 | 49.28 | 2.83 | 71.88 | 1.41 | 35.81 | 2.76 | 70.10 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 28 | | 2.47 | 62.71 | 1.83 | 46.48 | 1.94 | 49.28 | 2.48 | 62.99 | 1.41 | 35.81 | 2.41 | 61.21 | 3.02 | 76.71 | 1.44 | 36.50 | 1.84 | 46.74 |
| | 47 | | 2.47 | 62.71 | 1.06 | 26.90 | 1.94 | 49.28 | 2.83 | 71.88 | 1.41 | 35.81 | 2.76 | 70.10 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 63 | | 2.47 | 62.71 | 1.38 | 34.93 | 1.94 | 49.28 | 2.83 | 71.88 | 1.41 | 35.81 | 2.76 | 70.10 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 64 | | 2.47 | 62.71 | 1.78 | 45.24 | 1.94 | 49.28 | 2.83 | 71.88 | 1.41 | 35.81 | 2.76 | 70.10 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| 40 | 29 | 40 | 2.72 | 69.06 | 1.16 | 29.36 | 2.69 | 68.33 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 30 | | 2.72 | 69.06 | 1.50 | 38.10 | 2.69 | 68.33 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 31 | | 2.72 | 69.06 | 1.83 | 46.48 | 2.69 | 68.33 | 2.48 | 62.99 | 2.16 | 54.86 | 2.41 | 61.21 | 3.02 | 76.71 | 1.44 | 36.50 | 1.88 | 47.63 |
| | 48 | | 2.72 | 69.06 | 1.06 | 26.90 | 1.94 | 49.28 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 65 | | 2.72 | 69.06 | 1.38 | 34.93 | 2.69 | 68.33 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 66 | | 2.72 | 69.06 | 1.78 | 45.24 | 2.69 | 68.33 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| 44 | 32 | 44 | 2.97 | 75.41 | 1.16 | 29.36 | 2.69 | 68.33 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 33 | | 2.97 | 75.41 | 1.50 | 38.10 | 2.69 | 68.33 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 34 | | 2.97 | 75.41 | 1.83 | 46.48 | 2.69 | 68.33 | 2.48 | 62.99 | 2.16 | 54.86 | 2.41 | 61.21 | 3.02 | 76.71 | 1.44 | 36.50 | 1.88 | 47.63 |
| | 67 | | 2.97 | 75.41 | 1.38 | 34.93 | 2.69 | 68.33 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 68 | | 2.97 | 75.41 | 1.78 | 45.24 | 2.69 | 68.33 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| 48 | 35 | 48 | 3.22 | 81.76 | 1.16 | 29.36 | 2.69 | 68.33 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 36 | | 3.22 | 81.76 | 1.50 | 38.10 | 2.69 | 68.33 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 37 | | 3.22 | 81.76 | 1.83 | 46.48 | 2.69 | 68.33 | 2.48 | 62.99 | 2.16 | 54.86 | 2.41 | 61.21 | 3.02 | 76.71 | 1.44 | 36.50 | 1.88 | 47.63 |
| | 69 | | 3.22 | 81.76 | 1.38 | 34.93 | 2.69 | 68.33 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 70 | | 3.22 | 81.76 | 1.78 | 45.24 | 2.69 | 68.33 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |

* Denotes Style-2 (see page 486)
For more cable entry and length options see page 486 or email: sales@backshellworld.com
All dimensions for reference only.

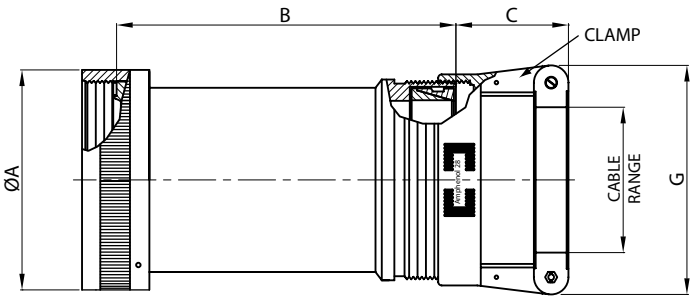
Amphenol

# For Connector Family J

**26482 Matrix Series 2** **5015 Matrix (MS345X)**

**83723 Matrix & Pyle Series III**

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III




**MIL Part Number**

M85049 / 25 -10 W

- MIL Series
- Slash Sheet: 25: Straight, Spin Coupling
- Finish: See Table-2 (pg. 486)
- Dash Number: See Table-A

**TABLE-A**

| MIL PART NUMBER DESIGNATOR | | CONNECTOR SHELL SIZE | A DIA. (MAX) | | B (MAX) | | C (REF) L MAX | | G (MAX) L MAX | | CABLE RANGE | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | MIN WIRE | | MAX WIRE | |
| SHELL SIZE | DASH NO | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 8 | 05 | 8 | 0.62 | 15.67 | 2.13 | 54.10 | 1.03 | 26.09 | 0.96 | 24.31 | 0.13 | 3.18 | 0.25 | 6.35 |
| | 06 | | 0.62 | 15.67 | 3.13 | 79.50 | 1.03 | 26.09 | 0.96 | 24.31 | 0.13 | 3.18 | 0.25 | 6.35 |
| | 07* | | 0.62 | 15.67 | 2.88 | 73.15 | 1.03 | 26.09 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 08* | | 0.62 | 15.67 | 3.88 | 98.55 | 1.03 | 26.09 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| 10 | 09 | 10 | 0.73 | 18.64 | 2.13 | 54.10 | 1.03 | 26.09 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 10 | | 0.73 | 18.64 | 3.13 | 79.50 | 1.03 | 26.09 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 11* | | 0.73 | 18.64 | 2.88 | 73.15 | 1.03 | 26.09 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 12* | | 0.73 | 18.64 | 3.88 | 98.55 | 1.03 | 26.09 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 136 | | 0.73 | 18.64 | 2.13 | 54.10 | 1.03 | 26.09 | 1.15 | 29.08 | 0.25 | 6.35 | 0.38 | 9.53 |
| | 137 | | 0.73 | 18.64 | 3.13 | 79.50 | 1.03 | 26.09 | 1.15 | 29.08 | 0.25 | 6.35 | 0.38 | 9.53 |
| 12 | 13 | 7/12 | 0.86 | 21.79 | 2.13 | 54.10 | 1.03 | 26.09 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 14 | | 0.86 | 21.79 | 3.13 | 79.50 | 1.03 | 26.09 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 15* | | 0.86 | 21.79 | 2.88 | 73.15 | 1.03 | 26.09 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 16* | | 0.86 | 21.79 | 3.88 | 98.55 | 1.03 | 26.09 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 111 | | 0.86 | 21.79 | 2.13 | 54.10 | 1.03 | 26.09 | 1.33 | 33.83 | 0.35 | 8.89 | 0.50 | 12.70 |
| | 114 | | 0.86 | 21.79 | 2.13 | 54.10 | 1.03 | 26.09 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 115 | | 0.86 | 21.79 | 3.13 | 79.50 | 1.03 | 26.09 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 138 | | 0.86 | 21.79 | 2.13 | 54.10 | 1.03 | 26.09 | 1.33 | 33.83 | 0.35 | 8.89 | 0.50 | 12.70 |
| | 139 | | 0.86 | 21.79 | 3.13 | 79.50 | 1.03 | 26.09 | 1.33 | 33.83 | 0.35 | 8.89 | 0.50 | 12.70 |
| 14 | 17 | 12/14 | 0.98 | 24.99 | 2.13 | 54.10 | 1.03 | 26.09 | 1.33 | 33.83 | 0.35 | 8.89 | 0.58 | 14.61 |
| | 18 | | 0.98 | 24.99 | 3.13 | 79.50 | 1.03 | 26.09 | 1.33 | 33.83 | 0.35 | 8.89 | 0.58 | 14.61 |
| | 19* | | 0.98 | 24.99 | 2.88 | 73.15 | 1.06 | 26.90 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 20* | | 0.98 | 24.99 | 3.88 | 98.55 | 1.06 | 26.90 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 116 | | 0.98 | 24.99 | 2.13 | 54.10 | 1.03 | 26.09 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 117 | | 0.98 | 24.99 | 3.13 | 79.50 | 1.03 | 26.09 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 150 | | 0.98 | 24.99 | 2.13 | 54.10 | 1.03 | 26.09 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 151 | | 0.98 | 24.99 | 3.13 | 79.50 | 1.03 | 26.09 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| 16 | 21 | 19/16 | 1.11 | 28.24 | 2.13 | 54.10 | 1.06 | 26.90 | 1.55 | 39.40 | 0.50 | 12.70 | 0.70 | 17.78 |
| | 22 | | 1.11 | 28.24 | 3.13 | 79.50 | 1.06 | 26.90 | 1.55 | 39.40 | 0.50 | 12.70 | 0.70 | 17.78 |
| | 23* | | 1.11 | 28.24 | 2.88 | 73.15 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 24* | | 1.11 | 28.24 | 3.88 | 98.55 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 112 | | 1.11 | 28.24 | 2.13 | 54.10 | 1.03 | 26.09 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 113 | | 1.11 | 28.24 | 3.13 | 79.50 | 1.03 | 26.09 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 118 | | 1.11 | 28.24 | 2.13 | 54.10 | 1.03 | 26.09 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 119 | | 1.11 | 28.24 | 3.13 | 79.50 | 1.03 | 26.09 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 152 | | 1.11 | 28.24 | 2.13 | 54.10 | 1.03 | 26.09 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 153 | | 1.11 | 28.24 | 3.13 | 79.50 | 1.03 | 26.09 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |

* Denotes Style-2 (see page 486)

TABLE CONTINUES ON NEXT PAGE

For more cable entry and length options see page 486 or email: sales@backshellworld.com
All dimensions for reference only.

# For Connector Family J

**26482 Matrix Series 2** | **5015 Matrix (MS345X)** | **83723 Matrix & Pyle Series III**

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III



**TABLE-A**

| MIL PART NUMBER DESIGNATOR | | CONNECTOR SHELL SIZE | A DIA. (MAX) | | B (MAX) | | C (REF) L MAX | | G (MAX) L MAX | | CABLE RANGE | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SHELL SIZE | DASH NO | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | MIN WIRE INCH | MIN WIRE MM | MAX WIRE INCH | MAX WIRE MM |
| 18 | 25 | 27/18 | 1.22 | 30.94 | 2.13 | 54.10 | 1.03 | 26.09 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 26 | | 1.22 | 30.94 | 3.13 | 79.50 | 1.03 | 26.09 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 27 | | 1.22 | 30.94 | 2.13 | 54.10 | 1.06 | 26.90 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 28 | | 1.22 | 30.94 | 3.13 | 79.50 | 1.06 | 26.90 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 29* | | 1.22 | 30.94 | 2.88 | 73.15 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 30* | | 1.22 | 30.94 | 3.88 | 98.55 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 120 | | 1.22 | 30.94 | 2.13 | 54.10 | 1.03 | 26.09 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 121 | | 1.22 | 30.94 | 3.13 | 79.50 | 1.03 | 26.09 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 122 | | 1.22 | 30.94 | 2.13 | 54.10 | 1.03 | 26.09 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 123 | | 1.22 | 30.94 | 3.13 | 79.50 | 1.03 | 26.09 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| 20 | 31 | 37/20 | 1.35 | 34.16 | 3.13 | 79.50 | 1.03 | 26.09 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 32 | | 1.35 | 34.16 | 4.13 | 104.90 | 1.03 | 26.09 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 33 | | 1.35 | 34.16 | 3.13 | 79.50 | 1.06 | 26.90 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 34 | | 1.35 | 34.16 | 4.13 | 104.90 | 1.06 | 26.90 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 35* | | 1.35 | 34.16 | 3.88 | 98.55 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 36* | | 1.35 | 34.16 | 4.88 | 123.95 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 37* | | 1.35 | 34.16 | 3.88 | 98.55 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 38* | | 1.35 | 34.16 | 4.88 | 123.95 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 124 | | 1.35 | 34.16 | 3.13 | 79.50 | 1.03 | 26.09 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 125 | | 1.35 | 34.16 | 4.13 | 104.90 | 1.03 | 26.09 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 140 | | 1.35 | 34.16 | 3.13 | 79.50 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.90 | 22.96 |
| | 141 | | 1.35 | 34.16 | 4.13 | 104.90 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.90 | 22.96 |
| 22 | 39 | 22 | 1.47 | 37.29 | 3.13 | 79.50 | 1.03 | 26.09 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 40 | | 1.47 | 37.29 | 4.13 | 104.90 | 1.03 | 26.09 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 41 | | 1.47 | 37.29 | 3.13 | 79.50 | 1.06 | 26.90 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 42 | | 1.47 | 37.29 | 4.13 | 104.90 | 1.06 | 26.90 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 43 | | 1.47 | 37.29 | 3.13 | 79.50 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 44 | | 1.47 | 37.29 | 4.13 | 104.90 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 45* | | 1.47 | 37.29 | 3.88 | 98.55 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 46* | | 1.47 | 37.29 | 4.88 | 123.95 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 126 | | 1.47 | 37.29 | 3.13 | 79.50 | 1.03 | 26.09 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 127 | | 1.47 | 37.29 | 4.13 | 104.90 | 1.03 | 26.09 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 128 | | 1.47 | 37.29 | 3.13 | 79.50 | 1.03 | 26.09 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 129 | | 1.47 | 37.29 | 4.13 | 104.90 | 1.03 | 26.09 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 142 | | 1.47 | 37.29 | 3.13 | 79.50 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.03 | 26.14 |
| | 143 | | 1.47 | 37.29 | 4.13 | 104.90 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.03 | 26.14 |
| 24 | 47 | 24 | 1.59 | 40.46 | 3.13 | 79.50 | 1.06 | 26.90 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 48 | | 1.59 | 40.46 | 4.13 | 104.90 | 1.06 | 26.90 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 49 | | 1.59 | 40.46 | 3.13 | 79.50 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.81 | 20.62 |
| | 50 | | 1.59 | 40.46 | 4.13 | 104.90 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.81 | 20.62 |
| | 51 | | 1.59 | 40.46 | 3.13 | 79.50 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 52 | | 1.59 | 40.46 | 4.13 | 104.90 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 53* | | 1.59 | 40.46 | 3.88 | 98.55 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 54* | | 1.59 | 40.46 | 4.88 | 123.95 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 130 | | 1.59 | 40.46 | 3.13 | 79.50 | 1.03 | 26.09 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 131 | | 1.59 | 40.46 | 4.13 | 104.90 | 1.03 | 26.09 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 144 | | 1.59 | 40.46 | 3.13 | 79.50 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.14 | 29.06 |
| | 145 | | 1.59 | 40.46 | 4.13 | 104.90 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.14 | 29.06 |
| 28 | 55 | 28 | 1.97 | 50.01 | 3.13 | 79.50 | 1.06 | 26.90 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 56 | | 1.97 | 50.01 | 4.13 | 104.90 | 1.06 | 26.90 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 57 | | 1.97 | 50.01 | 3.13 | 79.50 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 58 | | 1.97 | 50.01 | 4.13 | 104.90 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |

* Denotes Style-2 (see page 486)

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For more cable entry and length options see page 486 or email: sales@backshellworld.com
All dimensions for reference only.

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# For Connector Family J

**26482 Matrix Series 2** **5015 Matrix (MS345X)**

**83723 Matrix & Pyle Series III**

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III

**TABLE-A**

| MIL PART NUMBER DESIGNATOR | | CONNECTOR SHELL SIZE | A DIA. (MAX) | | B (MAX) | | C (REF) L MAX | | G (MAX) L MAX | | CABLE RANGE | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SHELL SIZE | DASH NO | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | MIN WIRE INCH | MIN WIRE MM | MAX WIRE INCH | MAX WIRE MM |
| 28, cont. | 59 | 28 | 1.97 | 50.01 | 3.13 | 79.50 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 60 | | 1.97 | 50.01 | 4.13 | 104.90 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 61 | | 1.97 | 50.01 | 3.13 | 79.50 | 1.50 | 38.10 | 23.63 | 600.20 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 62 | | 1.97 | 50.01 | 4.13 | 104.90 | 1.50 | 38.10 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| 32 | 63 | 32 | 2.22 | 56.36 | 3.13 | 79.50 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 64 | | 2.22 | 56.36 | 4.13 | 104.90 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 65 | | 2.22 | 56.36 | 3.13 | 79.50 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 66 | | 2.22 | 56.36 | 4.13 | 104.90 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 67 | | 2.22 | 56.36 | 3.13 | 79.50 | 1.50 | 38.10 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 68 | | 2.22 | 56.36 | 4.13 | 104.90 | 1.50 | 38.10 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 69 | | 2.22 | 56.36 | 3.13 | 79.50 | 1.78 | 45.24 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| | 70 | | 2.22 | 56.36 | 4.13 | 104.90 | 1.78 | 45.24 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| 36 | 71 | 36 | 2.47 | 62.71 | 4.13 | 104.90 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 72 | | 2.47 | 62.71 | 5.13 | 130.30 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 73 | | 2.47 | 62.71 | 4.13 | 104.90 | 1.50 | 38.10 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 74 | | 2.47 | 62.71 | 5.13 | 130.30 | 1.50 | 38.10 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 75 | | 2.47 | 62.71 | 4.13 | 104.90 | 1.78 | 45.24 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| | 76 | | 2.47 | 62.71 | 5.13 | 130.30 | 1.78 | 45.24 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| | 77* | | 2.47 | 62.71 | 5.01 | 127.25 | 1.83 | 46.48 | 3.02 | 76.71 | 1.44 | 36.50 | 1.88 | 47.63 |
| | 78* | | 2.47 | 62.71 | 6.01 | 152.65 | 1.83 | 46.48 | 3.02 | 76.71 | 1.44 | 36.50 | 1.88 | 47.63 |
| | 132 | | 2.47 | 62.71 | 4.13 | 104.90 | 1.06 | 26.90 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 133 | | 2.47 | 62.71 | 5.13 | 130.30 | 1.06 | 26.90 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 146 | | 2.47 | 62.71 | 4.13 | 104.90 | 1.83 | 46.48 | 3.02 | 76.71 | 1.44 | 36.50 | 1.84 | 46.74 |
| | 147 | | 2.47 | 62.71 | 5.13 | 130.30 | 1.83 | 46.48 | 3.02 | 76.71 | 1.44 | 36.50 | 1.84 | 46.74 |
| | 148 | | 2.47 | 62.71 | 4.13 | 104.90 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 149 | | 2.47 | 62.71 | 5.13 | 130.30 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| 40 | 79 | 40 | 2.72 | 69.06 | 4.13 | 104.90 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 80 | | 2.72 | 69.06 | 5.13 | 130.30 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 81 | | 2.72 | 69.06 | 4.13 | 104.90 | 1.50 | 38.10 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 82 | | 2.72 | 69.06 | 5.13 | 130.30 | 1.50 | 38.10 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 83 | | 2.72 | 69.06 | 4.13 | 104.90 | 1.78 | 45.24 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| | 84 | | 2.72 | 69.06 | 5.13 | 130.30 | 1.78 | 45.24 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| | 85 | | 2.72 | 69.06 | 4.13 | 104.90 | 1.83 | 46.48 | 3.02 | 76.71 | 1.44 | 36.50 | 1.88 | 47.63 |
| | 86 | | 2.72 | 69.06 | 5.13 | 130.30 | 1.83 | 46.48 | 3.02 | 76.71 | 1.44 | 36.50 | 1.88 | 47.63 |
| | 134 | | 2.72 | 69.06 | 4.13 | 104.90 | 1.06 | 26.90 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 135 | | 2.72 | 69.06 | 5.13 | 130.30 | 1.06 | 26.90 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 156 | | 2.72 | 69.06 | 4.13 | 104.90 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 157 | | 2.72 | 69.06 | 5.13 | 130.30 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| 44 | 87 | 44 | 2.97 | 75.41 | 4.13 | 104.90 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 88 | | 2.97 | 75.41 | 5.13 | 130.30 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 89 | | 2.97 | 75.41 | 4.13 | 104.90 | 1.50 | 38.10 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 90 | | 2.97 | 75.41 | 5.13 | 130.30 | 1.50 | 38.10 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 91 | | 2.97 | 75.41 | 4.13 | 104.90 | 1.78 | 45.24 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| | 92 | | 2.97 | 75.41 | 5.13 | 130.30 | 1.78 | 45.24 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| | 93 | | 2.97 | 75.41 | 4.13 | 104.90 | 1.83 | 46.48 | 3.02 | 76.71 | 1.44 | 36.50 | 1.88 | 47.63 |
| | 94 | | 2.97 | 75.41 | 5.13 | 130.30 | 1.83 | 46.48 | 3.02 | 76.71 | 1.44 | 36.50 | 1.88 | 47.63 |
| | 154 | | 2.97 | 75.41 | 4.13 | 104.90 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 155 | | 2.97 | 75.41 | 5.13 | 130.30 | 1.16 | 29.36 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| 48 | 95 | 48 | 3.22 | 81.76 | 4.13 | 104.90 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 96 | | 3.22 | 81.76 | 5.13 | 130.30 | 1.38 | 34.93 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 97 | | 3.22 | 81.76 | 4.13 | 104.90 | 1.50 | 38.10 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 98 | | 3.22 | 81.76 | 5.13 | 130.30 | 1.50 | 38.10 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 99 | | 3.22 | 81.76 | 4.13 | 104.90 | 1.78 | 45.24 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| | 100 | | 3.22 | 81.76 | 5.13 | 130.30 | 1.78 | 45.24 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| | 101 | | 3.22 | 81.76 | 4.13 | 104.90 | 1.83 | 46.48 | 3.02 | 76.71 | 1.44 | 36.50 | 1.88 | 47.63 |
| | 102 | | 3.22 | 81.76 | 5.13 | 130.30 | 1.83 | 46.48 | 3.02 | 76.71 | 1.44 | 36.50 | 1.88 | 47.63 |

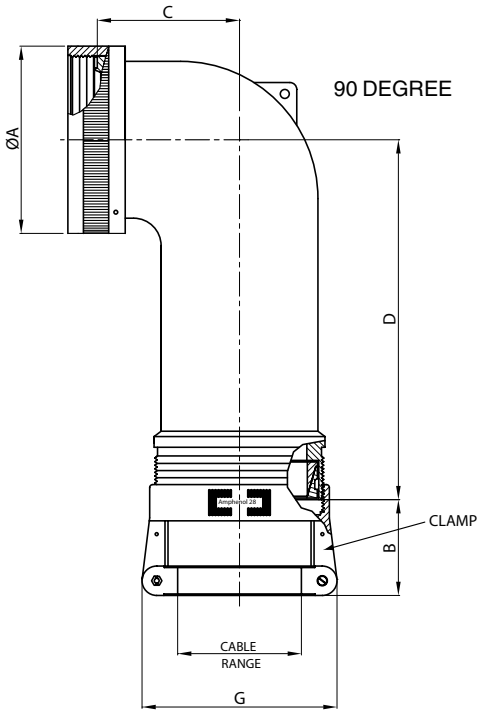
All dimensions for reference only.

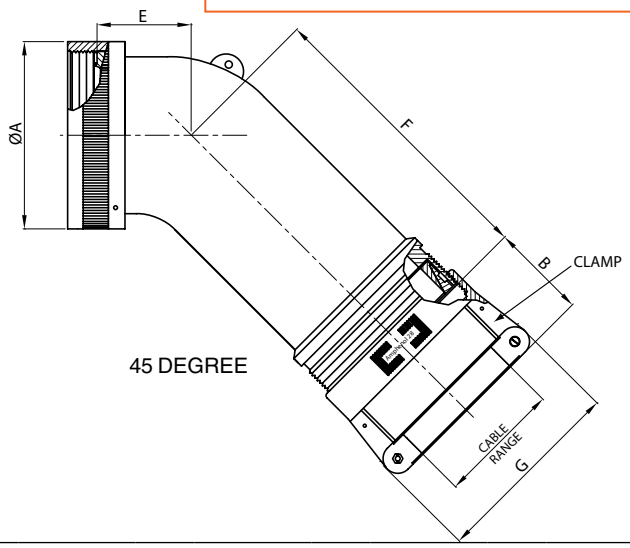
* Denotes Style-2 (see page 486). For more cable entry and length options see page 486 or email: sales@backshellworld.com.

# For Connector Family J

**26482 Matrix Series 2** | **5015 Matrix (MS345X)** | **83723 Matrix & Pyle Series III**

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III




**MIL Part Number**

**M85049 / 23 -10 W**

- MIL Series
- Slash Sheet:
  24: 90°, Spin Coupling
  23: 45°, Spin Coupling
- Dash Number: See Table-B
- Finish: See Table-2 (pg. 486)

**TABLE-B**

| MIL PART NUMBER DESIGNATOR | | CONNECTOR SHELL SIZE | A DIA. (MAX) | | B (REF) L MAX | | C (MAX) | | D (MAX) | | E (MAX) | | F (MAX) | | G (MAX) | | CABLE RANGE | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | MIN WIRE | | MAX WIRE | |
| SHELL SIZE | DASH NO | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 8 | 3 | 8 | 0.62 | 15.67 | 1.03 | 26.09 | 0.67 | 17.02 | 1.26 | 32.00 | 0.63 | 16.00 | 1.25 | 31.75 | 0.96 | 24.31 | 0.13 | 3.18 | 0.25 | 6.35 |
| 10 | 4 | 10 | 0.73 | 18.64 | 1.03 | 26.09 | 0.76 | 19.30 | 1.98 | 50.29 | 0.69 | 17.53 | 1.92 | 48.77 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 49* | | 0.73 | 18.64 | 1.03 | 26.09 | 1.52 | 38.61 | 2.00 | 50.80 | 1.50 | 38.10 | 1.98 | 50.29 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 5 | | 0.73 | 18.64 | 1.03 | 26.09 | 0.76 | 19.30 | 1.38 | 35.05 | 0.69 | 17.53 | 1.31 | 33.27 | 1.15 | 29.08 | 0.25 | 6.35 | 0.38 | 9.53 |
| 12 | 6 | 7/12 | 0.86 | 21.79 | 1.03 | 26.09 | 0.77 | 19.56 | 2.00 | 50.80 | 0.75 | 19.05 | 1.98 | 50.29 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 71* | | 0.86 | 21.79 | 1.03 | 26.09 | 1.81 | 45.97 | 2.16 | 54.86 | 1.65 | 41.91 | 2.18 | 55.37 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 7 | | 0.86 | 21.79 | 1.03 | 26.09 | 0.77 | 19.56 | 2.00 | 50.80 | 0.75 | 19.05 | 1.98 | 50.29 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 8 | | 0.86 | 21.79 | 1.03 | 26.09 | 0.77 | 19.56 | 1.40 | 35.56 | 0.75 | 19.05 | 1.98 | 50.29 | 1.33 | 33.83 | 0.35 | 8.89 | 0.50 | 12.70 |
| 14 | 9 | 12/14 | 0.98 | 24.99 | 1.03 | 26.09 | 0.87 | 22.10 | 2.07 | 52.58 | 0.81 | 20.57 | 2.07 | 52.58 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 10 | | 0.98 | 24.99 | 1.03 | 26.09 | 0.87 | 22.10 | 1.72 | 43.69 | 0.81 | 20.57 | 1.72 | 43.69 | 1.33 | 33.83 | 0.35 | 8.89 | 0.58 | 14.61 |
| | 50* | | 0.98 | 24.99 | 1.06 | 26.90 | 1.89 | 48.01 | 2.33 | 59.18 | 1.84 | 46.74 | 2.37 | 60.20 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 74 | | 0.98 | 24.99 | 1.03 | 26.09 | 0.87 | 22.10 | 2.07 | 52.58 | 0.81 | 20.57 | 2.07 | 52.58 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| 16 | 11 | 19/16 | 1.11 | 28.24 | 1.03 | 26.09 | 1.05 | 26.67 | 2.16 | 54.86 | 0.91 | 23.11 | 2.18 | 55.37 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 12 | | 1.11 | 28.24 | 1.06 | 26.90 | 1.05 | 26.67 | 1.81 | 45.97 | 0.91 | 23.11 | 1.82 | 46.23 | 1.55 | 39.40 | 0.50 | 12.70 | 0.70 | 17.78 |
| | 40 | | 1.11 | 28.24 | 1.03 | 26.09 | 1.05 | 26.67 | 2.16 | 54.86 | 0.91 | 23.11 | 2.18 | 55.37 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 51* | | 1.11 | 28.24 | 1.16 | 29.36 | 2.04 | 51.82 | 2.44 | 61.98 | 1.94 | 49.28 | 2.52 | 64.01 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 75 | | 1.11 | 28.24 | 1.03 | 26.09 | 1.05 | 26.67 | 2.16 | 54.86 | 0.91 | 23.11 | 2.18 | 55.37 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |

* Denotes Style-2 (see page 486)

TABLE CONTINUES ON NEXT PAGE

For more cable entry and length options see page 486 or email: sales@backshellworld.com
All dimensions for reference only.

# For Connector Family J

**26482 Matrix Series 2** **5015 Matrix (MS345X)**
**83723 Matrix & Pyle Series III**

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III

**TABLE-B**

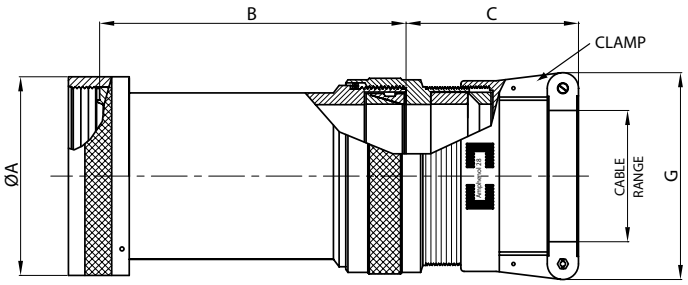
| MIL PART NUMBER DESIGNATOR | | CONNECTOR SHELL SIZE | A DIA. (MAX) | | B (REF) L MAX | | C (MAX) | | D (MAX) | | E (MAX) | | F (MAX) | | G (MAX) | | CABLE RANGE | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | MIN WIRE | | MAX WIRE | |
| SHELL SIZE | DASH NO | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 18 | 13 | 27/18 | 1.22 | 30.94 | 1.03 | 26.09 | 1.14 | 28.96 | 2.33 | 59.18 | 1.09 | 27.69 | 2.37 | 60.20 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 14 | | 1.22 | 30.94 | 1.16 | 29.36 | 1.14 | 28.96 | 1.98 | 50.29 | 1.09 | 27.69 | 2.00 | 50.80 | 1.77 | 44.96 | 0.63 | 15.88 | 0.78 | 19.79 |
| | 41 | | 1.22 | 30.94 | 1.03 | 26.09 | 1.14 | 28.96 | 2.33 | 59.18 | 1.09 | 27.69 | 2.37 | 60.20 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 42 | | 1.22 | 30.94 | 1.03 | 26.09 | 1.14 | 28.96 | 2.33 | 59.18 | 1.09 | 27.69 | 2.37 | 60.20 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 52 | | 1.22 | 30.94 | 1.06 | 26.90 | 1.14 | 28.96 | 2.33 | 59.18 | 1.09 | 27.69 | 2.37 | 60.20 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 72* | | 1.22 | 30.94 | 1.16 | 29.36 | 2.05 | 52.07 | 2.44 | 61.98 | 1.94 | 49.28 | 2.52 | 64.01 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| 20 | 15 | 37/20 | 1.35 | 34.16 | 1.03 | 26.09 | 1.14 | 28.96 | 2.33 | 59.18 | 1.09 | 27.69 | 2.37 | 60.20 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 16 | | 1.35 | 34.16 | 1.16 | 29.36 | 1.14 | 28.96 | 1.98 | 50.29 | 1.09 | 27.69 | 2.00 | 50.80 | 1.77 | 44.96 | 0.63 | 15.88 | 0.90 | 22.96 |
| | 43 | | 1.35 | 34.16 | 1.03 | 26.09 | 1.14 | 28.96 | 2.33 | 59.18 | 1.09 | 27.69 | 2.37 | 60.20 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 54 | | 1.35 | 34.16 | 1.06 | 26.90 | 1.14 | 28.96 | 2.33 | 59.18 | 1.09 | 27.69 | 2.37 | 60.20 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 55 | | 1.35 | 34.16 | 1.38 | 34.93 | 2.14 | 54.36 | 2.61 | 66.29 | 2.06 | 52.32 | 2.57 | 65.28 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| 22 | 17 | 22 | 1.47 | 37.29 | 1.06 | 26.90 | 1.29 | 32.77 | 2.44 | 61.98 | 1.19 | 30.23 | 2.52 | 64.01 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 18 | | 1.47 | 37.29 | 1.38 | 34.93 | 1.29 | 32.77 | 2.09 | 53.09 | 1.19 | 30.23 | 2.16 | 54.86 | 2.11 | 53.67 | 0.88 | 22.23 | 1.03 | 26.14 |
| | 44 | | 1.47 | 37.29 | 1.03 | 26.09 | 1.29 | 32.77 | 2.44 | 61.98 | 1.19 | 30.23 | 2.52 | 64.01 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 45 | | 1.47 | 37.29 | 1.03 | 26.09 | 1.29 | 32.77 | 2.44 | 61.98 | 1.19 | 30.23 | 2.52 | 64.01 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 56 | | 1.47 | 37.29 | 1.03 | 26.09 | 1.29 | 32.77 | 2.44 | 61.98 | 1.19 | 30.23 | 2.52 | 64.01 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 57 | | 1.47 | 37.29 | 1.16 | 29.36 | 1.29 | 32.77 | 2.44 | 61.98 | 1.19 | 30.23 | 2.52 | 64.01 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 58* | | 1.47 | 37.29 | 1.38 | 34.93 | 2.14 | 54.36 | 2.61 | 66.29 | 2.06 | 52.32 | 2.57 | 65.28 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| 24 | 19 | 24 | 1.59 | 40.46 | 1.06 | 26.90 | 1.29 | 32.77 | 2.44 | 61.98 | 1.19 | 30.23 | 2.52 | 64.01 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 20 | | 1.59 | 40.46 | 1.38 | 34.93 | 1.29 | 32.77 | 2.09 | 53.09 | 1.19 | 30.23 | 2.16 | 54.86 | 2.11 | 53.67 | 0.88 | 22.23 | 1.14 | 29.06 |
| | 46 | | 1.59 | 40.46 | 1.03 | 26.09 | 1.29 | 32.77 | 2.44 | 61.98 | 1.19 | 30.23 | 2.52 | 64.01 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 59 | | 1.59 | 40.46 | 1.16 | 29.36 | 1.29 | 32.77 | 2.44 | 61.98 | 1.19 | 30.23 | 2.52 | 64.01 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 73* | | 1.59 | 40.46 | 1.38 | 34.93 | 2.15 | 54.61 | 2.61 | 66.29 | 2.06 | 52.32 | 2.57 | 65.28 | 2.12 | 53.75 | 0.88 | 22.23 | 1.25 | 31.75 |
| 28 | 21 | 28 | 1.97 | 50.01 | 1.16 | 29.36 | 1.39 | 35.31 | 2.61 | 66.29 | 1.31 | 33.27 | 2.57 | 65.28 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 22 | | 1.97 | 50.01 | 1.50 | 38.10 | 1.39 | 35.31 | 2.26 | 57.40 | 1.31 | 33.27 | 2.22 | 56.39 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 60 | | 1.97 | 50.01 | 1.06 | 26.90 | 1.39 | 35.31 | 2.61 | 66.29 | 1.31 | 33.27 | 2.57 | 65.28 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 61 | | 1.97 | 50.01 | 1.38 | 34.93 | 1.39 | 35.31 | 2.61 | 66.29 | 1.31 | 33.27 | 2.57 | 65.28 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| 32 | 23 | 32 | 2.22 | 56.36 | 1.16 | 29.36 | 1.74 | 44.20 | 2.86 | 72.64 | 1.38 | 35.05 | 2.67 | 67.82 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 24 | | 2.22 | 56.36 | 1.38 | 34.93 | 1.74 | 44.20 | 2.86 | 72.64 | 1.38 | 35.05 | 2.67 | 67.82 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 25 | | 2.22 | 56.36 | 1.78 | 45.24 | 1.74 | 44.20 | 2.51 | 63.75 | 1.38 | 35.05 | 2.32 | 58.93 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| | 62 | | 2.22 | 56.36 | 1.50 | 38.10 | 1.74 | 44.20 | 2.86 | 72.64 | 1.38 | 35.05 | 2.67 | 67.82 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| 36 | 26 | 36 | 2.47 | 62.71 | 1.16 | 29.36 | 1.94 | 49.28 | 2.83 | 71.88 | 1.41 | 35.81 | 2.76 | 70.10 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 27 | | 2.47 | 62.71 | 1.50 | 38.10 | 1.94 | 49.28 | 2.83 | 71.88 | 1.41 | 35.81 | 2.76 | 70.10 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 28 | | 2.47 | 62.71 | 1.83 | 46.48 | 1.94 | 49.28 | 2.48 | 62.99 | 1.41 | 35.81 | 2.41 | 61.21 | 3.02 | 76.71 | 1.44 | 36.50 | 1.84 | 46.74 |
| | 47 | | 2.47 | 62.71 | 1.06 | 26.90 | 1.94 | 49.28 | 2.83 | 71.88 | 1.41 | 35.81 | 2.76 | 70.10 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 63 | | 2.47 | 62.71 | 1.38 | 34.93 | 1.94 | 49.28 | 2.83 | 71.88 | 1.41 | 35.81 | 2.76 | 70.10 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 64 | | 2.47 | 62.71 | 1.78 | 45.24 | 1.94 | 49.28 | 2.83 | 71.88 | 1.41 | 35.81 | 2.76 | 70.10 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| 40 | 29 | 40 | 2.72 | 69.06 | 1.16 | 29.36 | 2.69 | 68.33 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 30 | | 2.72 | 69.06 | 1.50 | 38.10 | 2.69 | 68.33 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 31 | | 2.72 | 69.06 | 1.83 | 46.48 | 2.69 | 68.33 | 2.48 | 62.99 | 2.16 | 54.86 | 2.41 | 61.21 | 3.02 | 76.71 | 1.44 | 36.50 | 1.88 | 47.63 |
| | 48 | | 2.72 | 69.06 | 1.06 | 26.90 | 1.94 | 49.28 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 65 | | 2.72 | 69.06 | 1.38 | 34.93 | 2.69 | 68.33 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 66 | | 2.72 | 69.06 | 1.78 | 45.24 | 2.69 | 68.33 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| 44 | 32 | 44 | 2.97 | 75.41 | 1.16 | 29.36 | 2.69 | 68.33 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 33 | | 2.97 | 75.41 | 1.50 | 38.10 | 2.69 | 68.33 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 34 | | 2.97 | 75.41 | 1.83 | 46.48 | 2.69 | 68.33 | 2.48 | 62.99 | 2.16 | 54.86 | 2.41 | 61.21 | 3.02 | 76.71 | 1.44 | 36.50 | 1.88 | 47.63 |
| | 67 | | 2.97 | 75.41 | 1.38 | 34.93 | 2.69 | 68.33 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 68 | | 2.97 | 75.41 | 1.78 | 45.24 | 2.69 | 68.33 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| 48 | 35 | 48 | 3.22 | 81.76 | 1.16 | 29.36 | 2.69 | 68.33 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 36 | | 3.22 | 81.76 | 1.50 | 38.10 | 2.69 | 68.33 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 37 | | 3.22 | 81.76 | 1.83 | 46.48 | 2.69 | 68.33 | 2.48 | 62.99 | 2.16 | 54.86 | 2.41 | 61.21 | 3.02 | 76.71 | 1.44 | 36.50 | 1.88 | 47.63 |
| | 69 | | 3.22 | 81.76 | 1.38 | 34.93 | 2.69 | 68.33 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 70 | | 3.22 | 81.76 | 1.78 | 45.24 | 2.69 | 68.33 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |

* Denotes Style-2 (see page 486)
For more cable entry and length options see page 486 or email: sales@backshellworld.com
All dimensions for reference only.

# For Connector Family J

**26482 Matrix Series 2** | **5015 Matrix (MS345X)** | **83723 Matrix & Pyle Series III**

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III




**MIL Part Number**

**M85049 / 10 -10 W**

- MIL Series
- Slash Sheet: 10: Straight, Spin Coupling
- Finish: See Table-2 (pg. 486)
- Dash Number: See Table-A

TABLE – A

| MIL PART NUMBER DESIGNATOR | | CONNECTOR SHELL SIZE | A DIA. (MAX) | | B (MAX) | | C (REF) L MAX | | G (MAX) L MAX | | CABLE RANGE | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SHELL SIZE | DASH NO | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | MIN WIRE INCH | MIN WIRE MM | MAX WIRE INCH | MAX WIRE MM |
| 08 | 05 | 8 | 0.62 | 15.67 | 2.13 | 54.10 | 1.54 | 39.22 | 0.96 | 24.31 | 0.13 | 3.18 | 0.25 | 6.35 |
| | 06 | | 0.62 | 15.67 | 3.13 | 79.50 | 1.54 | 39.22 | 0.96 | 24.31 | 0.13 | 3.18 | 0.25 | 6.35 |
| | 07* | | 0.62 | 15.67 | 2.88 | 73.15 | 1.54 | 39.22 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 08* | | 0.62 | 15.67 | 3.88 | 98.55 | 1.54 | 39.22 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| 10 | 09 | 10 | 0.73 | 18.64 | 2.13 | 54.10 | 1.54 | 39.22 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 10 | | 0.73 | 18.64 | 3.13 | 79.50 | 1.54 | 39.22 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 11* | | 0.73 | 18.64 | 2.88 | 73.15 | 1.54 | 39.22 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 12* | | 0.73 | 18.64 | 3.88 | 98.55 | 1.54 | 39.22 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 136 | | 0.73 | 18.64 | 2.13 | 54.10 | 1.54 | 39.22 | 1.15 | 29.08 | 0.25 | 6.35 | 0.38 | 9.53 |
| | 137 | | 0.73 | 18.64 | 3.13 | 79.50 | 1.54 | 39.22 | 1.15 | 29.08 | 0.25 | 6.35 | 0.38 | 9.53 |
| 12 | 13 | 7/12 | 0.86 | 21.79 | 2.13 | 54.10 | 1.54 | 39.22 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 14 | | 0.86 | 21.79 | 3.13 | 79.50 | 1.54 | 39.22 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 15* | | 0.86 | 21.79 | 2.88 | 73.15 | 1.84 | 46.84 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 16* | | 0.86 | 21.79 | 3.88 | 98.55 | 1.84 | 46.84 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 111 | | 0.86 | 21.79 | 2.13 | 54.10 | 1.84 | 46.84 | 1.33 | 33.83 | 0.35 | 8.89 | 0.50 | 12.70 |
| | 114 | | 0.86 | 21.79 | 2.13 | 54.10 | 1.54 | 39.22 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 115 | | 0.86 | 21.79 | 3.13 | 79.50 | 1.54 | 39.22 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 138 | | 0.86 | 21.79 | 2.13 | 54.10 | 1.84 | 46.84 | 1.33 | 33.83 | 0.35 | 8.89 | 0.50 | 12.70 |
| | 139 | | 0.86 | 21.79 | 3.13 | 79.50 | 1.84 | 46.84 | 1.33 | 33.83 | 0.35 | 8.89 | 0.50 | 12.70 |
| 14 | 17 | 12/14 | 0.98 | 24.99 | 2.13 | 54.10 | 1.84 | 46.84 | 1.33 | 33.83 | 0.35 | 8.89 | 0.58 | 14.61 |
| | 18 | | 0.98 | 24.99 | 3.13 | 79.50 | 1.84 | 46.84 | 1.33 | 33.83 | 0.35 | 8.89 | 0.58 | 14.61 |
| | 19* | | 0.98 | 24.99 | 2.88 | 73.15 | 1.92 | 48.67 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 20* | | 0.98 | 24.99 | 3.88 | 98.55 | 1.92 | 48.67 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 116 | | 0.98 | 24.99 | 2.13 | 54.10 | 1.54 | 39.22 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 117 | | 0.98 | 24.99 | 3.13 | 79.50 | 1.54 | 39.22 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 150 | | 0.98 | 24.99 | 2.13 | 54.10 | 1.54 | 39.22 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 151 | | 0.98 | 24.99 | 3.13 | 79.50 | 1.54 | 39.22 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| 16 | 21 | 19/16 | 1.11 | 28.24 | 2.13 | 54.10 | 1.92 | 48.67 | 1.55 | 39.40 | 0.50 | 12.70 | 0.70 | 17.78 |
| | 22 | | 1.11 | 28.24 | 3.13 | 79.50 | 1.92 | 48.67 | 1.55 | 39.40 | 0.50 | 12.70 | 0.70 | 17.78 |
| | 23* | | 1.11 | 28.24 | 2.88 | 73.15 | 2.00 | 50.80 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 24* | | 1.11 | 28.24 | 3.88 | 98.55 | 2.00 | 50.80 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 112 | | 1.11 | 28.24 | 2.13 | 54.10 | 1.54 | 39.22 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 113 | | 1.11 | 28.24 | 3.13 | 79.50 | 1.54 | 39.22 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 118 | | 1.11 | 28.24 | 2.13 | 54.10 | 1.84 | 46.84 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 119 | | 1.11 | 28.24 | 3.13 | 79.50 | 1.84 | 46.84 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 152 | | 1.11 | 28.24 | 2.13 | 54.10 | 1.54 | 39.22 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 153 | | 1.11 | 28.24 | 3.13 | 79.50 | 1.54 | 39.22 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |

* Denotes Style-2 (see page 486)

TABLE CONTINUES ON NEXT PAGE

For more cable entry and length options see page 486 or email: sales@backshellworld.com
All dimensions for reference only.

Amphenol

# For Connector Family J

**26482 Matrix Series 2** | **5015 Matrix (MS345X)** | **83723 Matrix & Pyle Series III**

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III

**TABLE – A**

| MIL PART NUMBER DESIGNATOR | | CONNECTOR SHELL SIZE | A DIA. (MAX) | | B (MAX) | | C (REF) L MAX | | G (MAX) L MAX | | CABLE RANGE | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SHELL SIZE | DASH NO | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | MIN WIRE INCH | MIN WIRE MM | MAX WIRE INCH | MAX WIRE MM |
| 18 | 25 | 27/18 | 1.22 | 30.94 | 2.13 | 54.10 | 1.84 | 46.84 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 26 | | 1.22 | 30.94 | 3.13 | 79.50 | 1.84 | 46.84 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 27 | | 1.22 | 30.94 | 2.13 | 54.10 | 1.92 | 48.67 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 28 | | 1.22 | 30.94 | 3.13 | 79.50 | 1.92 | 48.67 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 29* | | 1.22 | 30.94 | 2.88 | 73.15 | 2.00 | 50.80 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 30* | | 1.22 | 30.94 | 3.88 | 98.55 | 2.00 | 50.80 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 120 | | 1.22 | 30.94 | 2.13 | 54.10 | 1.54 | 39.22 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 121 | | 1.22 | 30.94 | 3.13 | 79.50 | 1.54 | 39.22 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 122 | | 1.22 | 30.94 | 2.13 | 54.10 | 1.54 | 39.22 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 123 | | 1.22 | 30.94 | 3.13 | 79.50 | 1.54 | 39.22 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| 20 | 31 | 37/20 | 1.35 | 34.16 | 3.13 | 79.50 | 1.84 | 46.84 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 32 | | 1.35 | 34.16 | 4.13 | 104.90 | 1.84 | 46.84 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 33 | | 1.35 | 34.16 | 3.13 | 79.50 | 1.92 | 48.67 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 34 | | 1.35 | 34.16 | 4.13 | 104.90 | 1.92 | 48.67 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 35* | | 1.35 | 34.16 | 3.88 | 98.55 | 2.00 | 50.80 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 36* | | 1.35 | 34.16 | 4.88 | 123.95 | 2.00 | 50.80 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 37* | | 1.35 | 34.16 | 3.88 | 98.55 | 2.23 | 56.64 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 38* | | 1.35 | 34.16 | 4.88 | 123.95 | 2.23 | 56.64 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 124 | | 1.35 | 34.16 | 3.13 | 79.50 | 1.54 | 39.22 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 125 | | 1.35 | 34.16 | 4.13 | 104.90 | 1.54 | 39.22 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 140 | | 1.35 | 34.16 | 3.13 | 79.50 | 2.00 | 50.80 | 1.77 | 44.96 | 0.63 | 15.88 | 0.90 | 22.96 |
| | 141 | | 1.35 | 34.16 | 4.13 | 104.90 | 2.00 | 50.80 | 1.77 | 44.96 | 0.63 | 15.88 | 0.90 | 22.96 |
| 22 | 39 | 22 | 1.47 | 37.29 | 3.13 | 79.50 | 1.84 | 46.84 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 40 | | 1.47 | 37.29 | 4.13 | 104.90 | 1.84 | 46.84 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 41 | | 1.47 | 37.29 | 3.13 | 79.50 | 1.92 | 48.67 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 42 | | 1.47 | 37.29 | 4.13 | 104.90 | 1.92 | 48.67 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 43 | | 1.47 | 37.29 | 3.13 | 79.50 | 2.00 | 50.80 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 44 | | 1.47 | 37.29 | 4.13 | 104.90 | 2.00 | 50.80 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 45* | | 1.47 | 37.29 | 3.88 | 98.55 | 2.23 | 56.64 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 46* | | 1.47 | 37.29 | 4.88 | 123.95 | 2.23 | 56.64 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 126 | | 1.47 | 37.29 | 3.13 | 79.50 | 1.54 | 39.22 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 127 | | 1.47 | 37.29 | 4.13 | 104.90 | 1.54 | 39.22 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 128 | | 1.47 | 37.29 | 3.13 | 79.50 | 1.54 | 39.22 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 129 | | 1.47 | 37.29 | 4.13 | 104.90 | 1.54 | 39.22 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 142 | | 1.47 | 37.29 | 3.13 | 79.50 | 2.23 | 56.64 | 2.11 | 53.67 | 0.88 | 22.23 | 1.03 | 26.14 |
| | 143 | | 1.47 | 37.29 | 4.13 | 104.90 | 2.23 | 56.64 | 2.11 | 53.67 | 0.88 | 22.23 | 1.03 | 26.14 |
| 24 | 47 | 24 | 1.59 | 40.46 | 3.13 | 79.50 | 1.92 | 48.67 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 48 | | 1.59 | 40.46 | 4.13 | 104.90 | 1.92 | 48.67 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 49 | | 1.59 | 40.46 | 3.13 | 79.50 | 2.00 | 50.80 | 1.77 | 44.96 | 0.63 | 15.88 | 0.81 | 20.62 |
| | 50 | | 1.59 | 40.46 | 4.13 | 104.90 | 2.00 | 50.80 | 1.77 | 44.96 | 0.63 | 15.88 | 0.81 | 20.62 |
| | 51 | | 1.59 | 40.46 | 3.13 | 79.50 | 2.00 | 50.80 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 52 | | 1.59 | 40.46 | 4.13 | 104.90 | 2.00 | 50.80 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 53* | | 1.59 | 40.46 | 3.88 | 98.55 | 2.23 | 56.64 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 54* | | 1.59 | 40.46 | 4.88 | 123.95 | 2.23 | 56.64 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 130 | | 1.59 | 40.46 | 3.13 | 79.50 | 1.84 | 46.84 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 131 | | 1.59 | 40.46 | 4.13 | 104.90 | 1.84 | 46.84 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 144 | | 1.59 | 40.46 | 3.13 | 79.50 | 2.23 | 56.64 | 2.11 | 53.67 | 0.88 | 22.23 | 1.14 | 29.06 |
| | 145 | | 1.59 | 40.46 | 4.13 | 104.90 | 2.23 | 56.64 | 2.11 | 53.67 | 0.88 | 22.23 | 1.14 | 29.06 |
| 28 | 55 | 28 | 1.97 | 50.01 | 3.13 | 79.50 | 1.92 | 48.67 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 56 | | 1.97 | 50.01 | 4.13 | 104.90 | 1.92 | 48.67 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 57 | | 1.97 | 50.01 | 3.13 | 79.50 | 2.00 | 50.80 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 58 | | 1.97 | 50.01 | 4.13 | 104.90 | 2.00 | 50.80 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 59 | | 1.97 | 50.01 | 3.13 | 79.50 | 2.23 | 56.64 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 60 | | 1.97 | 50.01 | 4.13 | 104.90 | 2.23 | 56.64 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 61 | | 1.97 | 50.01 | 3.13 | 79.50 | 2.02 | 51.41 | 23.63 | 600.20 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 62 | | 1.97 | 50.01 | 4.13 | 104.90 | 2.02 | 51.41 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |

* Denotes Style-2 (see page 486). For more cable entry and length options see page 486 or email: sales@backshellworld.com. All dimensions for reference only.

TABLE CONTINUES ON NEXT PAGE

## For Connector Family J

**26482 Matrix Series 2** | **5015 Matrix (MS345X)** | **83723 Matrix & Pyle Series III**

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III

**TABLE – A**

| MIL PART NUMBER DESIGNATOR | | CONNECTOR SHELL SIZE | A DIA. (MAX) | | B (MAX) | | C (REF) L MAX | | G (MAX) L MAX | | CABLE RANGE | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SHELL SIZE | DASH NO | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | MIN WIRE | | MAX WIRE | |
| | | | | | | | | | | | INCH | MM | INCH | MM |
| 32 | 63 | 32 | 2.22 | 56.36 | 3.13 | 79.50 | 2.00 | 50.80 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 64 | | 2.22 | 56.36 | 4.13 | 104.90 | 2.00 | 50.80 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 65 | | 2.22 | 56.36 | 3.13 | 79.50 | 2.23 | 56.64 | 2.11 | 53.67 | 0.88 | 22.23 | 12.50 | 317.50 |
| | 66 | | 2.22 | 56.36 | 4.13 | 104.90 | 2.23 | 56.64 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 67 | | 2.22 | 56.36 | 3.13 | 79.50 | 2.02 | 51.41 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 68 | | 2.22 | 56.36 | 4.13 | 104.90 | 2.02 | 51.41 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 69 | | 2.22 | 56.36 | 3.13 | 79.50 | 2.55 | 64.77 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| | 70 | | 2.22 | 56.36 | 4.13 | 104.90 | 2.55 | 64.77 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| 36 | 71 | 36 | 2.47 | 62.71 | 4.13 | 104.90 | 2.23 | 56.64 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 72 | | 2.47 | 62.71 | 5.13 | 130.30 | 2.23 | 56.64 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 73 | | 2.47 | 62.71 | 4.13 | 104.90 | 2.02 | 51.41 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 74 | | 2.47 | 62.71 | 5.13 | 130.30 | 2.02 | 51.41 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 75 | | 2.47 | 62.71 | 4.13 | 104.90 | 2.55 | 64.77 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| | 76 | | 2.47 | 62.71 | 5.13 | 130.30 | 2.55 | 64.77 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| | 77* | | 2.47 | 62.71 | 5.01 | 127.25 | 2.60 | 66.04 | 3.02 | 76.71 | 1.44 | 36.50 | 1.88 | 47.63 |
| | 78* | | 2.47 | 62.71 | 6.01 | 152.65 | 2.60 | 66.04 | 3.02 | 76.71 | 1.44 | 36.50 | 1.88 | 47.63 |
| | 132 | | 2.47 | 62.71 | 4.13 | 104.90 | 1.92 | 48.67 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 133 | | 2.47 | 62.71 | 5.13 | 130.30 | 1.92 | 48.67 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 146 | | 2.47 | 62.71 | 4.13 | 104.90 | 2.60 | 66.04 | 3.02 | 76.71 | 1.44 | 36.50 | 1.84 | 46.74 |
| | 147 | | 2.47 | 62.71 | 5.13 | 130.30 | 2.60 | 66.04 | 3.02 | 76.71 | 1.44 | 36.50 | 1.84 | 46.74 |
| | 148 | | 2.47 | 62.71 | 4.13 | 104.90 | 2.00 | 50.80 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 149 | | 2.47 | 62.71 | 5.13 | 130.30 | 2.00 | 50.80 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| 40 | 79 | 40 | 2.72 | 69.06 | 4.13 | 104.90 | 2.23 | 56.64 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 80 | | 2.72 | 69.06 | 5.13 | 130.30 | 2.23 | 56.64 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 81 | | 2.72 | 69.06 | 4.13 | 104.90 | 2.02 | 51.41 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 82 | | 2.72 | 69.06 | 5.13 | 130.30 | 2.02 | 51.41 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 83 | | 2.72 | 69.06 | 4.13 | 104.90 | 2.55 | 64.77 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| | 84 | | 2.72 | 69.06 | 5.13 | 130.30 | 2.55 | 64.77 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| | 85 | | 2.72 | 69.06 | 4.13 | 104.90 | 2.60 | 66.04 | 3.02 | 76.71 | 1.44 | 36.50 | 1.88 | 47.63 |
| | 86 | | 2.72 | 69.06 | 5.13 | 130.30 | 2.60 | 66.04 | 3.02 | 76.71 | 1.44 | 36.50 | 1.88 | 47.63 |
| | 134 | | 2.72 | 69.06 | 4.13 | 104.90 | 1.92 | 48.67 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 135 | | 2.72 | 69.06 | 5.13 | 130.30 | 1.92 | 48.67 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 156 | | 2.72 | 69.06 | 4.13 | 104.90 | 2.00 | 50.80 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 157 | | 2.72 | 69.06 | 5.13 | 130.30 | 2.00 | 50.80 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| 44 | 87 | 44 | 2.97 | 75.41 | 4.13 | 104.90 | 2.23 | 56.64 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 88 | | 2.97 | 75.41 | 5.13 | 130.30 | 2.23 | 56.64 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 89 | | 2.97 | 75.41 | 4.13 | 104.90 | 2.02 | 51.41 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 90 | | 2.97 | 75.41 | 5.13 | 130.30 | 2.02 | 51.41 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 91 | | 2.97 | 75.41 | 4.13 | 104.90 | 2.55 | 64.77 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| | 92 | | 2.97 | 75.41 | 5.13 | 130.30 | 2.55 | 64.77 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| | 93 | | 2.97 | 75.41 | 4.13 | 104.90 | 2.60 | 66.04 | 3.02 | 76.71 | 1.44 | 36.50 | 1.88 | 47.63 |
| | 94 | | 2.97 | 75.41 | 5.13 | 130.30 | 2.60 | 66.04 | 3.02 | 76.71 | 1.44 | 36.50 | 1.88 | 47.63 |
| | 154 | | 2.97 | 75.41 | 4.13 | 104.90 | 2.00 | 50.80 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 155 | | 2.97 | 75.41 | 5.13 | 130.30 | 2.00 | 50.80 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| 48 | 95 | 48 | 3.22 | 81.76 | 4.13 | 104.90 | 2.23 | 56.64 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 96 | | 3.22 | 81.76 | 5.13 | 130.30 | 2.23 | 56.64 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 97 | | 3.22 | 81.76 | 4.13 | 104.90 | 2.02 | 51.41 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 98 | | 3.22 | 81.76 | 5.13 | 130.30 | 2.02 | 51.41 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 99 | | 3.22 | 81.76 | 4.13 | 104.90 | 2.55 | 64.77 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| | 100 | | 3.22 | 81.76 | 5.13 | 130.30 | 2.55 | 64.77 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| | 101 | | 3.22 | 81.76 | 4.13 | 104.90 | 2.60 | 66.04 | 3.02 | 76.71 | 1.44 | 36.50 | 1.88 | 47.63 |
| | 102 | | 3.22 | 81.76 | 5.13 | 130.30 | 2.60 | 66.04 | 3.02 | 76.71 | 1.44 | 36.50 | 1.88 | 47.63 |

* Denotes Style-2 (see page 486)
For more cable entry and length options see page 486 or email: sales@backshellworld.com
All dimensions for reference only.

Amphenol

# For Connector Family J

**26482 Matrix Series 2** **5015 Matrix (MS345X)**

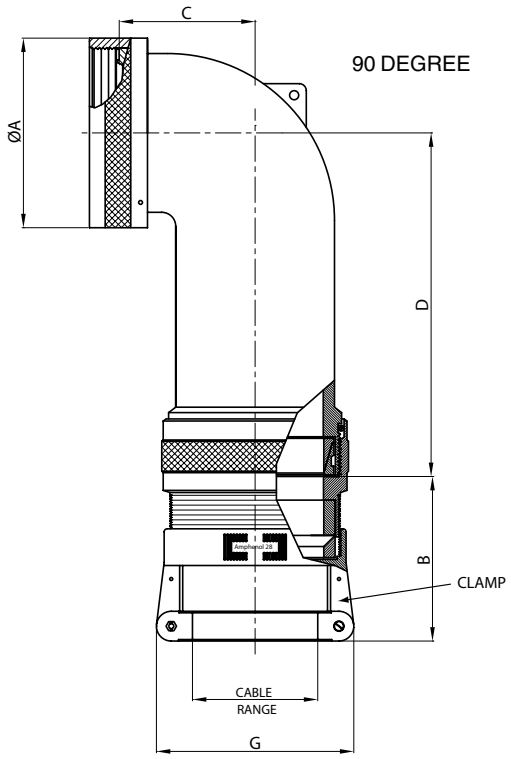
**83723 Matrix & Pyle Series III**

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III

**MIL Part Number**

**M85049 / 8 -10 W**

- MIL Series
- Slash Sheet:
  8: 90°, Spin Coupling
  6: 45°, Spin Coupling
- Dash Number: See Table-A
- Finish: See Table-2 (pg. 486)



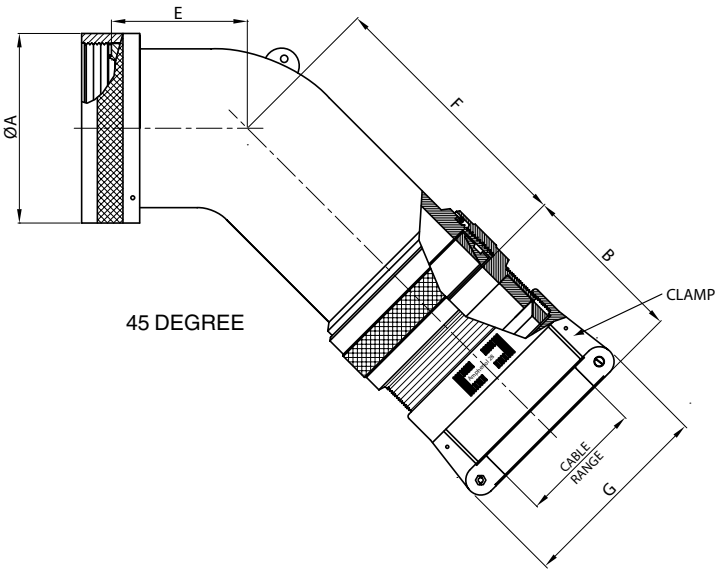




**TABLE – A**

| MIL PART NUMBER DESIGNATOR | | CONNECTOR SHELL SIZE | A DIA. (MAX) | | B (REF) | | C (MAX) | | D (MAX) | | E (MAX) | | F (MAX) | | G (MAX) | | CABLE RANGE | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | MIN WIRE | | MAX WIRE | |
| SHELL SIZE | DASH NO | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 08 | 3 | 8 | 0.62 | 15.67 | 1.54 | 39.22 | 0.67 | 17.02 | 1.26 | 32.00 | 0.63 | 16.00 | 1.25 | 31.75 | 0.96 | 24.31 | 0.13 | 3.18 | 0.25 | 6.35 |
| 10 | 4 | 10 | 0.73 | 18.64 | 1.54 | 39.22 | 0.76 | 19.30 | 1.98 | 50.29 | 0.69 | 17.53 | 1.92 | 48.77 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 49* | | 0.73 | 18.64 | 1.54 | 39.22 | 1.52 | 38.61 | 2.00 | 50.80 | 1.50 | 38.10 | 1.98 | 50.29 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 5 | | 0.73 | 18.64 | 1.54 | 39.22 | 0.76 | 19.30 | 1.38 | 35.05 | 0.69 | 17.53 | 1.31 | 33.27 | 1.15 | 29.08 | 0.25 | 6.35 | 0.38 | 9.53 |
| 12 | 6 | 7/12 | 0.86 | 21.79 | 1.54 | 39.22 | 0.77 | 19.56 | 2.00 | 50.80 | 0.75 | 19.05 | 1.98 | 50.29 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 71* | | 0.86 | 21.79 | 1.84 | 46.84 | 1.81 | 45.97 | 2.16 | 54.86 | 1.65 | 41.91 | 2.18 | 55.37 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 7 | | 0.86 | 21.79 | 1.54 | 39.22 | 0.77 | 19.56 | 2.00 | 50.80 | 0.75 | 19.05 | 1.98 | 50.29 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 8 | | 0.86 | 21.79 | 1.84 | 46.84 | 0.77 | 19.56 | 1.40 | 35.56 | 0.75 | 19.05 | 1.98 | 50.29 | 1.33 | 33.83 | 0.35 | 8.89 | 0.50 | 12.70 |
| 14 | 9 | 12/14 | 0.98 | 24.99 | 1.54 | 39.22 | 0.87 | 22.10 | 2.07 | 52.58 | 0.81 | 20.57 | 2.07 | 52.58 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 10 | | 0.98 | 24.99 | 1.84 | 46.84 | 0.87 | 22.10 | 1.72 | 43.69 | 0.81 | 20.57 | 1.72 | 43.69 | 1.33 | 33.83 | 0.35 | 8.89 | 0.58 | 14.61 |
| | 50* | | 0.98 | 24.99 | 1.92 | 48.67 | 1.89 | 48.01 | 2.33 | 59.18 | 1.84 | 46.74 | 2.37 | 60.20 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 74 | | 0.98 | 24.99 | 1.54 | 39.22 | 0.87 | 22.10 | 2.07 | 52.58 | 0.81 | 20.57 | 2.07 | 52.58 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| 16 | 11 | 19/16 | 1.11 | 28.24 | 1.54 | 39.22 | 1.05 | 26.67 | 2.16 | 54.86 | 0.91 | 23.11 | 2.18 | 55.37 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 12 | | 1.11 | 28.24 | 1.92 | 48.67 | 1.05 | 26.67 | 1.81 | 45.97 | 0.91 | 23.11 | 1.82 | 46.23 | 1.55 | 39.40 | 0.50 | 12.70 | 0.70 | 17.78 |
| | 40 | | 1.11 | 28.24 | 1.84 | 46.84 | 1.05 | 26.67 | 2.16 | 54.86 | 0.91 | 23.11 | 2.18 | 55.37 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 51* | | 1.11 | 28.24 | 2.00 | 50.80 | 2.04 | 51.82 | 2.44 | 61.98 | 1.94 | 49.28 | 2.52 | 64.01 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 75 | | 1.11 | 28.24 | 1.54 | 39.22 | 1.05 | 26.67 | 2.16 | 54.86 | 0.91 | 23.11 | 2.18 | 55.37 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |

* Denotes Style-2 (see page 486)

TABLE CONTINUES ON NEXT PAGE

For more cable entry and length options see page 486 or email: sales@backshellworld.com
All dimensions for reference only.

## For Connector Family J

**26482 Matrix Series 2** | **5015 Matrix (MS345X)** | **83723 Matrix & Pyle Series III**

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III

**TABLE – A**

| MIL PART NUMBER DESIGNATOR | | CONNECTOR SHELL SIZE | A DIA. (MAX) | | B (REF) | | C (MAX) | | D (MAX) | | E (MAX) | | F (MAX) | | G (MAX) | | CABLE RANGE | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | MIN WIRE | | MAX WIRE | |
| SHELL SIZE | DASH NO | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 18 | 13 | 27/18 | 1.22 | 30.94 | 1.84 | 46.84 | 1.14 | 28.96 | 2.33 | 59.18 | 1.09 | 27.69 | 2.37 | 60.20 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 14 | | 1.22 | 30.94 | 2.00 | 50.80 | 1.14 | 28.96 | 1.98 | 50.29 | 1.09 | 27.69 | 2.00 | 50.80 | 1.77 | 44.96 | 0.63 | 15.88 | 0.78 | 19.79 |
| | 41 | | 1.22 | 30.94 | 1.54 | 39.22 | 1.14 | 28.96 | 2.33 | 59.18 | 1.09 | 27.69 | 2.37 | 60.20 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 42 | | 1.22 | 30.94 | 1.54 | 39.22 | 1.14 | 28.96 | 2.33 | 59.18 | 1.09 | 27.69 | 2.37 | 60.20 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 52 | | 1.22 | 30.94 | 1.92 | 48.67 | 1.14 | 28.96 | 2.33 | 59.18 | 1.09 | 27.69 | 2.37 | 60.20 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 72* | | 1.22 | 30.94 | 2.00 | 50.80 | 2.05 | 52.07 | 2.44 | 61.98 | 1.94 | 49.28 | 2.52 | 64.01 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| 20 | 15 | 37/20 | 1.35 | 34.16 | 1.84 | 46.84 | 1.14 | 28.96 | 2.33 | 59.18 | 1.09 | 27.69 | 2.37 | 60.20 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 16 | | 1.35 | 34.16 | 2.00 | 50.80 | 1.14 | 28.96 | 1.98 | 50.29 | 1.09 | 27.69 | 2.00 | 50.80 | 1.77 | 44.96 | 0.63 | 15.88 | 0.90 | 22.96 |
| | 43 | | 1.35 | 34.16 | 1.54 | 39.22 | 1.14 | 28.96 | 2.33 | 59.18 | 1.09 | 27.69 | 2.37 | 60.20 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 54 | | 1.35 | 34.16 | 1.92 | 48.67 | 1.14 | 28.96 | 2.33 | 59.18 | 1.09 | 27.69 | 2.37 | 60.20 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 55 | | 1.35 | 34.16 | 2.23 | 56.64 | 2.14 | 54.36 | 2.61 | 66.29 | 2.06 | 52.32 | 2.57 | 65.28 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| 22 | 17 | 22 | 1.47 | 37.29 | 1.92 | 48.72 | 1.29 | 32.77 | 2.44 | 61.98 | 1.19 | 30.23 | 2.52 | 64.01 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 18 | | 1.47 | 37.29 | 2.23 | 56.64 | 1.29 | 32.77 | 2.09 | 53.09 | 1.19 | 30.23 | 2.16 | 54.86 | 2.11 | 53.67 | 0.88 | 22.23 | 1.03 | 26.14 |
| | 44 | | 1.47 | 37.29 | 1.54 | 39.22 | 1.29 | 32.77 | 2.44 | 61.98 | 1.19 | 30.23 | 2.52 | 64.01 | 0.96 | 24.31 | 0.13 | 3.18 | 0.31 | 7.92 |
| | 45 | | 1.47 | 37.29 | 1.54 | 39.22 | 1.29 | 32.77 | 2.44 | 61.98 | 1.19 | 30.23 | 2.52 | 64.01 | 1.15 | 29.08 | 0.25 | 6.35 | 0.44 | 11.10 |
| | 56 | | 1.47 | 37.29 | 1.84 | 46.84 | 1.29 | 32.77 | 2.44 | 61.98 | 1.19 | 30.23 | 2.52 | 64.01 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 57 | | 1.47 | 37.29 | 2.00 | 50.80 | 1.29 | 32.77 | 2.44 | 61.98 | 1.19 | 30.23 | 2.52 | 64.01 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 58* | | 1.47 | 37.29 | 2.23 | 56.64 | 2.14 | 54.36 | 2.61 | 66.29 | 2.06 | 52.32 | 2.57 | 65.28 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| 24 | 19 | 24 | 1.59 | 40.46 | 1.92 | 48.67 | 1.29 | 32.77 | 2.44 | 61.98 | 1.19 | 30.23 | 2.52 | 64.01 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 20 | | 1.59 | 40.46 | 2.23 | 56.64 | 1.29 | 32.77 | 2.09 | 53.09 | 1.19 | 30.23 | 2.16 | 54.86 | 2.11 | 53.67 | 0.88 | 22.23 | 1.14 | 29.06 |
| | 46 | | 1.59 | 40.46 | 1.84 | 46.84 | 1.29 | 32.77 | 2.44 | 61.98 | 1.19 | 30.23 | 2.52 | 64.01 | 1.33 | 33.83 | 0.35 | 8.89 | 0.63 | 15.88 |
| | 59 | | 1.59 | 40.46 | 2.00 | 50.80 | 1.29 | 32.77 | 2.44 | 61.98 | 1.19 | 30.23 | 2.52 | 64.01 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 73* | | 1.59 | 40.46 | 2.23 | 56.64 | 2.15 | 54.61 | 2.61 | 66.29 | 2.06 | 52.32 | 2.57 | 65.28 | 2.12 | 53.75 | 0.88 | 22.23 | 1.25 | 31.75 |
| 28 | 21 | 28 | 1.97 | 50.01 | 2.00 | 50.80 | 1.39 | 35.31 | 2.61 | 66.29 | 1.31 | 33.27 | 2.57 | 65.28 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 22 | | 1.97 | 50.01 | 2.02 | 51.41 | 1.39 | 35.31 | 2.26 | 57.40 | 1.31 | 33.27 | 2.22 | 56.39 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 60 | | 1.97 | 50.01 | 1.92 | 48.67 | 1.39 | 35.31 | 2.61 | 66.29 | 1.31 | 33.27 | 2.57 | 65.28 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 61 | | 1.97 | 50.01 | 2.23 | 56.64 | 1.39 | 35.31 | 2.61 | 66.29 | 1.31 | 33.27 | 2.57 | 65.28 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| 32 | 23 | 32 | 2.22 | 56.36 | 2.00 | 50.80 | 1.74 | 44.20 | 2.86 | 72.64 | 1.38 | 35.05 | 2.67 | 67.82 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 24 | | 2.22 | 56.36 | 2.23 | 56.64 | 1.74 | 44.20 | 2.86 | 72.64 | 1.38 | 35.05 | 2.67 | 67.82 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 25 | | 2.22 | 56.36 | 2.55 | 64.77 | 1.74 | 44.20 | 2.51 | 63.75 | 1.38 | 35.05 | 2.32 | 58.93 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| | 62 | | 2.22 | 56.36 | 2.02 | 51.41 | 1.74 | 44.20 | 2.86 | 72.64 | 1.38 | 35.05 | 2.67 | 67.82 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| 36 | 26 | 36 | 2.47 | 62.71 | 2.00 | 50.80 | 1.94 | 49.28 | 2.83 | 71.88 | 1.41 | 35.81 | 2.76 | 70.10 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 27 | | 2.47 | 62.71 | 2.02 | 51.41 | 1.94 | 49.28 | 2.83 | 71.88 | 1.41 | 35.81 | 2.76 | 70.10 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 28 | | 2.47 | 62.71 | 2.60 | 66.04 | 1.94 | 49.28 | 2.48 | 62.99 | 1.41 | 35.81 | 2.41 | 61.21 | 3.02 | 76.71 | 1.44 | 36.50 | 1.84 | 46.74 |
| | 47 | | 2.47 | 62.71 | 1.92 | 48.67 | 1.94 | 49.28 | 2.83 | 71.88 | 1.41 | 35.81 | 2.76 | 70.10 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 63 | | 2.47 | 62.71 | 2.23 | 56.64 | 1.94 | 49.28 | 2.83 | 71.88 | 1.41 | 35.81 | 2.76 | 70.10 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 64 | | 2.47 | 62.71 | 2.55 | 64.77 | 1.94 | 49.28 | 2.83 | 71.88 | 1.41 | 35.81 | 2.76 | 70.10 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| 40 | 29 | 40 | 2.72 | 69.06 | 2.00 | 50.80 | 2.69 | 68.33 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 30 | | 2.72 | 69.06 | 2.02 | 51.41 | 2.69 | 68.33 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 31 | | 2.72 | 69.06 | 2.60 | 66.04 | 2.69 | 68.33 | 2.48 | 62.99 | 2.16 | 54.86 | 2.41 | 61.21 | 3.02 | 76.71 | 1.44 | 36.50 | 1.88 | 47.63 |
| | 48 | | 2.72 | 69.06 | 1.92 | 48.67 | 1.94 | 49.28 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 1.55 | 39.40 | 0.50 | 12.70 | 0.75 | 19.05 |
| | 65 | | 2.72 | 69.06 | 2.23 | 56.64 | 2.69 | 68.33 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 66 | | 2.72 | 69.06 | 2.55 | 64.77 | 2.69 | 68.33 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| 44 | 32 | 44 | 2.97 | 75.41 | 2.00 | 50.80 | 2.69 | 68.33 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 33 | | 2.97 | 75.41 | 2.02 | 51.41 | 2.69 | 68.33 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 34 | | 2.97 | 75.41 | 2.60 | 66.04 | 2.69 | 68.33 | 2.48 | 62.99 | 2.16 | 54.86 | 2.41 | 61.21 | 3.02 | 76.71 | 1.44 | 36.50 | 1.88 | 47.63 |
| | 67 | | 2.97 | 75.41 | 2.23 | 56.64 | 2.69 | 68.33 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 68 | | 2.97 | 75.41 | 2.55 | 64.77 | 2.69 | 68.33 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |
| 48 | 35 | 48 | 3.22 | 81.76 | 2.00 | 50.80 | 2.69 | 68.33 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 1.77 | 44.96 | 0.63 | 15.88 | 0.94 | 23.80 |
| | 36 | | 3.22 | 81.76 | 2.02 | 51.41 | 2.69 | 68.33 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 2.36 | 60.02 | 1.00 | 25.40 | 1.38 | 34.93 |
| | 37 | | 3.22 | 81.76 | 2.60 | 66.04 | 2.69 | 68.33 | 2.48 | 62.99 | 2.16 | 54.86 | 2.41 | 61.21 | 3.02 | 76.71 | 1.44 | 36.50 | 1.88 | 47.63 |
| | 69 | | 3.22 | 81.76 | 2.23 | 56.64 | 2.69 | 68.33 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 2.11 | 53.67 | 0.88 | 22.23 | 1.25 | 31.75 |
| | 70 | | 3.22 | 81.76 | 2.55 | 64.77 | 2.69 | 68.33 | 2.83 | 71.88 | 2.16 | 54.86 | 2.76 | 70.10 | 2.77 | 70.36 | 1.25 | 31.75 | 1.63 | 41.28 |

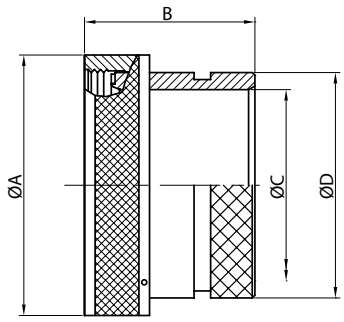
* Denotes Style-2 (see page 486) For more cable entry and length options see page 486 or email: sales@backshellworld.com. All dimensions for reference only.

# Shrink Boot Adapter
## Straight, Spin Coupling

## For Connector Family J

**26482 Matrix Series 2** **5015 Matrix (MS345X)**

**83723 Matrix & Pyle Series III**




Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III

**MIL Part Number**

**M85049 / 60-1 W 10**

- MIL Series
- Slash Sheet: 60-1: Straight, Spin Coupling
- Dash Number: See Table-A
- Finish: See Table-2 (pg. 486)

**TABLE-A**

| MIL PART NUMBER DESIGNATOR | CONNECTOR SHELL SIZE | A DIA. (MAX) | | B (MAX) | | C DIA. (MIN) | | D DIA. (MAX) | |
|---|---|---|---|---|---|---|---|---|---|
| DASH NO | | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 8 | 8 | 0.62 | 15.67 | 1.19 | 30.15 | 0.25 | 6.35 | 0.53 | 13.54 |
| 10 | 10 | 0.73 | 18.64 | 1.19 | 30.15 | 0.36 | 9.02 | 0.61 | 15.37 |
| 12 | 7/12 | 0.86 | 21.79 | 1.19 | 30.15 | 0.49 | 12.47 | 0.77 | 19.66 |
| 14 | 12/14 | 0.98 | 24.99 | 1.19 | 30.15 | 0.57 | 14.35 | 0.84 | 21.29 |
| 16 | 19/16 | 1.11 | 28.24 | 1.19 | 30.15 | 0.69 | 17.53 | 0.96 | 24.46 |
| 18 | 27/18 | 1.22 | 30.94 | 1.19 | 30.15 | 0.77 | 19.53 | 1.04 | 26.47 |
| 20 | 37/20 | 1.35 | 34.16 | 1.19 | 30.15 | 0.89 | 22.71 | 1.22 | 30.91 |
| 22 | 22 | 1.47 | 37.29 | 1.19 | 30.15 | 1.02 | 25.88 | 1.36 | 34.42 |
| 24 | 24 | 1.59 | 40.46 | 1.19 | 30.15 | 1.13 | 28.80 | 1.44 | 36.65 |
| 28 | 28 | 1.97 | 50.01 | 1.51 | 38.38 | 1.37 | 34.77 | 1.71 | 43.41 |
| 32 | 32 | 2.22 | 56.36 | 1.51 | 38.38 | 1.62 | 41.02 | 1.92 | 48.74 |
| 36 | 36 | 2.47 | 62.71 | 1.51 | 38.38 | 1.83 | 46.48 | 2.17 | 55.09 |
| 40 | 40 | 2.72 | 69.06 | 1.51 | 38.38 | 2.05 | 51.94 | 2.40 | 61.01 |
| 44 | 44 | 2.97 | 75.41 | 1.51 | 38.38 | 2.30 | 58.42 | 2.66 | 67.49 |
| 48 | 48 | 3.22 | 81.76 | 1.51 | 38.38 | 2.55 | 64.77 | 2.91 | 73.84 |

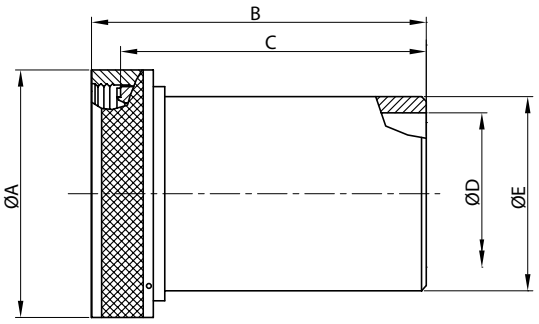
* Denotes Style-2 (see page 486)
For more cable entry and length options see page 486 or email: sales@backshellworld.com
All dimensions for reference only.

# Crimp Ring Adapter
## Straight, Spin Coupling
## For Connector Family J

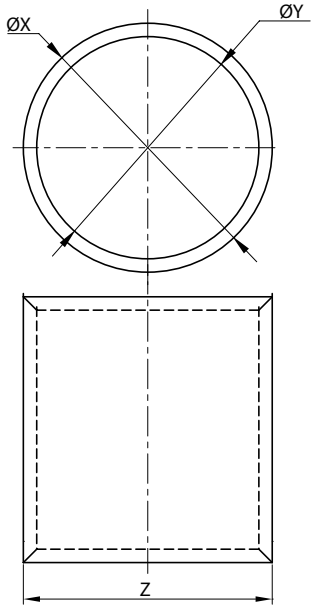


**26482 Matrix Series 2** | **5015 Matrix (MS345X)** | **83723 Matrix & Pyle Series III**

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III




CRIMP RING




### MIL Part Number

**M85049 / 26 -1 -10 W**

- MIL Series
- Slash Sheet: 26: Straight, Spin Coupling
- Crimp Ring: 1: Adapter; 2: Crimp Ring; 3: Adapter with Crimp Ring
- Finish: See Table-2 (pg. 486) (Omit for "26-2")
- Dash Number: See Table-A (for 26-1 & 26-3) Table -B (for 26-2)

**TABLE – A**

| MIL PART NUMBER DESIGNATOR DASH NO | CONNECTOR SHELL SIZE | A DIA (MAX) | | B (MAX) | | C (MAX) | | D DIA (MAX) | | E DIA. (MAX) | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 8 | 8 | 0.62 | 15.67 | 1.28 | 32.34 | 0.96 | 24.38 | 0.25 | 6.35 | 0.35 | 8.81 |
| 10 | 10 | 0.73 | 18.64 | 1.28 | 32.34 | 0.96 | 24.38 | 0.33 | 8.26 | 0.50 | 12.70 |
| 12 | 7/12 | 0.86 | 21.79 | 1.28 | 32.34 | 0.96 | 24.38 | 0.42 | 10.67 | 0.51 | 12.95 |
| 14 | 12/14 | 0.98 | 24.99 | 1.28 | 32.34 | 0.96 | 24.38 | 0.54 | 13.72 | 0.63 | 16.00 |
| 16 | 19/16 | 1.11 | 28.24 | 1.28 | 32.34 | 0.96 | 24.38 | 0.67 | 17.02 | 0.76 | 19.30 |
| 18 | 27/18 | 1.22 | 30.94 | 1.28 | 32.34 | 0.96 | 24.38 | 0.79 | 20.04 | 0.89 | 22.61 |
| 20 | 37/20 | 1.35 | 34.16 | 1.28 | 32.34 | 0.96 | 24.38 | 0.91 | 23.22 | 1.01 | 25.65 |
| 22 | 22 | 1.47 | 37.29 | 1.28 | 32.34 | 0.96 | 24.38 | 1.04 | 26.39 | 1.13 | 28.70 |
| 24 | 24 | 1.59 | 40.46 | 1.28 | 32.34 | 0.96 | 24.38 | 1.11 | 28.24 | 1.20 | 30.48 |
| 28 | 28 | 1.97 | 50.01 | 1.44 | 36.55 | 0.96 | 24.38 | 1.39 | 35.28 | 1.56 | 39.62 |
| 32 | 32 | 2.22 | 56.36 | 1.44 | 36.55 | 0.96 | 24.38 | 1.64 | 41.53 | 1.81 | 45.97 |
| 36 | 36 | 2.47 | 62.71 | 1.44 | 36.55 | 0.96 | 24.38 | 1.85 | 46.99 | 2.06 | 52.32 |
| 40 | 40 | 2.72 | 69.06 | 1.44 | 36.55 | 0.96 | 24.38 | 2.07 | 52.45 | 2.31 | 58.67 |
| 44 | 44 | 2.97 | 75.41 | 1.44 | 36.55 | 0.96 | 24.38 | 2.32 | 58.93 | 2.56 | 65.02 |
| 48 | 48 | 3.22 | 81.76 | 1.44 | 36.55 | 0.96 | 24.38 | 2.57 | 65.28 | 2.81 | 71.37 |

**TABLE-B**

| MIL PART NUMBER DESIGNATOR DASH NO | PART NO COLOR | CONNECTOR SHELL SIZE | X DIA MIN | | X DIA MAX | | Y DIA MIN | | Y DIA MAX | | Z | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 8 | GREEN | 8 | 0.45 | 11.38 | 0.46 | 11.63 | 0.40 | 10.16 | 0.41 | 10.41 | 0.25 | 6.35 |
| 10 | RED | 10 | 0.66 | 16.76 | 0.68 | 17.27 | 0.59 | 14.86 | 0.60 | 15.11 | 0.44 | 11.18 |
| 12 | RED | 7/12 | 0.66 | 16.76 | 0.68 | 17.27 | 0.59 | 14.86 | 0.60 | 15.11 | 0.44 | 11.18 |
| 14 | BLUE | 12/14 | 0.78 | 19.81 | 0.80 | 20.32 | 0.71 | 17.91 | 0.72 | 18.16 | 0.44 | 11.18 |
| 16 | GRAY | 19/16 | 0.91 | 23.11 | 0.93 | 23.62 | 0.84 | 21.21 | 0.85 | 21.46 | 0.44 | 11.18 |
| 18 | BROWN | 27/18 | 1.08 | 27.43 | 1.10 | 27.94 | 1.01 | 25.53 | 1.02 | 25.78 | 0.44 | 11.18 |
| 20 | GREEN | 37/20 | 1.20 | 30.48 | 1.22 | 30.99 | 1.13 | 28.58 | 1.14 | 28.83 | 0.44 | 11.18 |
| 22 | PINK | 22 | 1.32 | 33.53 | 1.34 | 34.04 | 1.25 | 31.62 | 1.26 | 31.88 | 0.44 | 11.18 |
| 24 | YELLOW | 24 | 1.39 | 35.23 | 1.41 | 35.74 | 1.31 | 33.32 | 1.32 | 33.58 | 0.44 | 11.18 |
| 28 | RED | 28 | 1.74 | 44.20 | 1.76 | 44.70 | 1.67 | 42.29 | 1.68 | 42.55 | 0.44 | 11.18 |
| 32 | GRAY | 32 | 1.99 | 50.55 | 2.01 | 51.05 | 1.92 | 48.64 | 1.93 | 48.90 | 0.44 | 11.18 |
| 36 | GREEN | 36 | 2.24 | 56.90 | 2.26 | 57.40 | 2.17 | 54.99 | 2.18 | 55.25 | 0.44 | 11.18 |
| 40 | ORANGE | 40 | 2.49 | 63.25 | 2.51 | 63.75 | 2.42 | 61.34 | 2.43 | 61.60 | 0.44 | 11.18 |
| 44 | YELLOW | 44 | 2.74 | 69.20 | 2.76 | 70.10 | 2.67 | 67.69 | 2.68 | 67.95 | 0.44 | 11.18 |
| 48 | BLUE | 48 | 2.99 | 75.95 | 3.01 | 76.45 | 2.92 | 74.04 | 2.93 | 74.30 | 0.44 | 11.18 |

All dimensions for reference only.

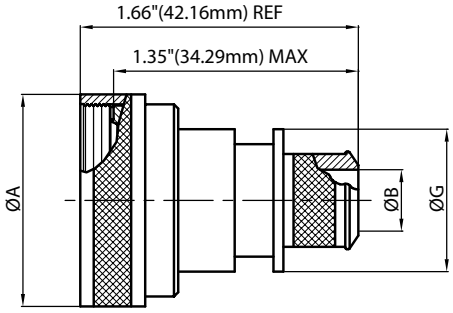
Note: For more cable entry and length options, email: sales@backshellworld.com

Amphenol

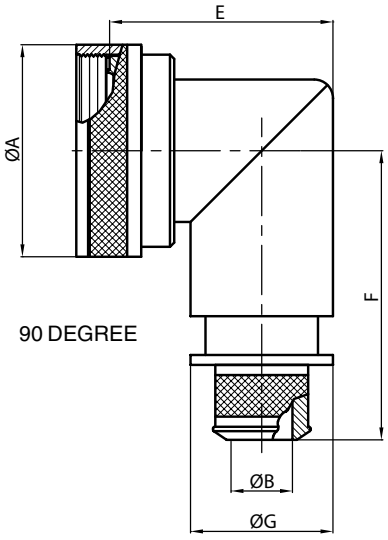
# For Connector Family J

**26482 Matrix Series 2** | **5015 Matrix (MS345X)** | **83723 Matrix & Pyle Series III**

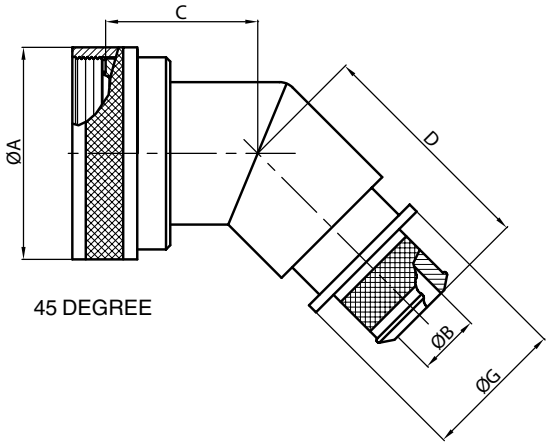
Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III




STRAIGHT




90 DEGREE




45 DEGREE

**MIL Part Number**

**M85049 / 82 -10 W 02**

- MIL Series
- Slash Sheet:
  82: Straight, Self-Lock
  84: 90°, Self-Lock
  83: 45°, Self-Lock
- Entry Size: See Table-A
- Finish: See Table-2 (pg. 486)
- Shell Size: See Table-A

**TABLE-A**

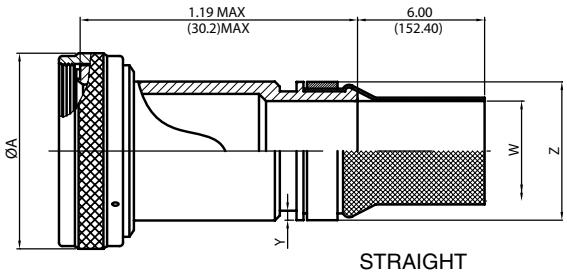
| MIL PART NUMBER DESIGNATOR | | CONNECTOR SHELL SIZE | A DIA. (MAX) | | B DIA. (MAX) | | C (MAX) | | D (MAX) | | E (MAX) | | F (MAX.) | | G MAX | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ACCESSORY SHELL SIZE | ENTRY SIZE | | | | +0.00 -0.02 | +0.00 -0.50 | | | | | | | | | | |
| | | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 08 | 02 | 8 | 0.89 | 22.48 | N/A | N/A | 0.87 | 22.10 | 1.16 | 29.46 | 1.19 | 30.18 | 1.42 | 35.99 | N/A | N/A |
| | 03 | | | | 0.26 | 6.60 | | | | | | | | | 0.56 | 14.22 |
| 10 | 02 | 10 | 1.01 | 25.65 | N/A | N/A | 0.89 | 22.61 | 1.18 | 29.97 | 1.28 | 32.54 | 1.48 | 37.59 | N/A | N/A |
| | 03 | | | | 0.32 | 8.13 | | | | | | | | | 0.63 | 16.00 |
| 12 | 02 | 7 / 12 | 1.14 | 28.83 | 0.32 | 8.13 | 0.92 | 23.37 | 1.20 | 30.48 | 1.41 | 35.71 | 1.54 | 39.17 | 0.63 | 16.00 |
| | 03 | | | | 0.45 | 11.43 | | | | | | | | | 0.75 | 19.05 |
| 14 | 02 | 12 / 14 | 1.26 | 32.00 | 0.45 | 11.43 | 0.94 | 23.88 | 1.22 | 30.99 | 1.53 | 38.89 | 1.61 | 40.77 | 0.75 | 19.05 |
| | 03 | | | | 0.57 | 14.48 | | | | | | | | | 0.89 | 22.61 |
| 16 | 02 | 19 / 16 | 1.39 | 35.18 | 0.51 | 12.95 | 0.96 | 24.38 | 1.25 | 31.75 | 1.66 | 42.06 | 1.67 | 42.34 | 0.82 | 20.83 |
| | 03 | | | | 0.64 | 16.26 | | | | | | | | | 0.95 | 24.13 |
| 18 | 02 | 27 / 18 | 1.51 | 38.35 | 0.64 | 16.26 | 0.98 | 24.89 | 1.26 | 32.00 | 1.72 | 43.64 | 1.73 | 43.94 | 0.95 | 24.13 |
| | 03 | | | | 0.76 | 19.30 | | | | | | | | | 1.07 | 27.18 |
| 20 | 02 | 37 / 20 | 1.64 | 41.53 | 0.64 | 16.26 | 1.00 | 25.40 | 1.29 | 32.77 | 1.84 | 46.84 | 1.79 | 45.52 | 0.95 | 24.13 |
| | 03 | | | | 0.82 | 20.83 | | | | | | | | | 1.13 | 28.07 |
| 22 | 02 | 22 | 1.76 | 44.70 | 0.70 | 17.78 | 1.03 | 26.16 | 1.31 | 33.27 | 1.94 | 49.23 | 1.85 | 46.99 | 1.02 | 25.99 |
| | 03 | | | | 0.95 | 24.13 | | | | | | | | | 1.26 | 32.00 |
| 24 | 02 | 24 | 1.89 | 47.88 | 0.76 | 19.30 | 1.05 | 26.67 | 1.34 | 34.04 | 2.09 | 53.16 | 1.92 | 48.69 | 1.07 | 27.18 |
| | 03 | | | | 1.01 | 25.65 | | | | | | | | | 1.32 | 33.53 |
| 28 | 02 | 28 | 2.14 | 54.23 | 0.89 | 22.61 | 1.10 | 27.94 | 1.38 | 35.05 | 2.53 | 64.29 | 2.04 | 51.87 | 1.19 | 30.23 |
| | 03 | | | | 1.14 | 28.96 | | | | | | | | | 1.47 | 37.34 |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

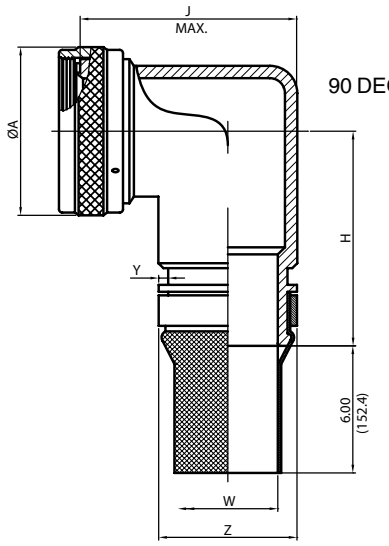
# For Connector Family J

**26482 Matrix Series 2** | **5015 Matrix (MS345X)** | **83723 Matrix & Pyle Series III**

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III




STRAIGHT




90 DEGREE

## MIL Part Number

**M85049 / 109 S 10 T W 03 -6 D**

- MIL Series
- Slash Sheet: 109: Straight 111: 90°
- Coupling: –: Spin Coupling S: Self-Lock
- Shell Size: See Table-A
- Shield Finish: (Material: Copper) K: Nickel T: Tin
- Finish: See Table-2 (pg. 486)
- Entry Size: See Table-A & B
- Shield Length: 6 inches min. 18 inches max. 1 inch increments 6: 6 inch, 7: 7 inch, so on
- Drain Hole Option

**TABLE – A**

| PART NUMBER DESIGNATOR | | | CONNECTOR SHELL SIZE | A DIA.(MAX) | | H (MAX) | | J (MAX) | |
|---|---|---|---|---|---|---|---|---|---|
| SHELL SIZE-MIL | ALLOWABLE ENTRY SIZE | | | INCH | MM | INCH | MM | INCH | MM |
| | MIN | MAX | | | | | | | |
| 08 | - | 01 | 8 | 0.885 | 22.48 | 1.73 | 43.94 | 1.12 | 28.45 |
| 10 | 01 | 03 | 10 | 1.010 | 25.65 | 1.85 | 46.99 | 1.25 | 31.75 |
| 12 | 01 | 05 | 7/12 | 1.135 | 28.83 | 1.87 | 47.50 | 1.38 | 35.05 |
| 14 | 02 | 06 | 12/14 | 1.260 | 32.00 | 1.94 | 49.28 | 1.44 | 36.58 |
| 16 | 04 | 08 | 19/16 | 1.385 | 35.18 | 2.03 | 51.56 | 1.56 | 39.62 |
| 18 | 05 | 09 | 27/18 | 1.510 | 38.35 | 2.20 | 55.88 | 1.75 | 44.45 |
| 20 | 07 | 11 | 37/20 | 1.635 | 41.53 | 2.20 | 55.88 | 1.75 | 44.45 |
| 22 | 09 | 13 | 22 | 1.760 | 44.70 | 2.31 | 58.67 | 2.00 | 50.80 |
| 24 | 11 | 14 | 24 | 1.885 | 47.88 | 2.31 | 58.67 | 2.00 | 50.80 |
| 28 | 14 | 16 | 28 | 2.135 | 54.23 | 2.48 | 62.99 | 2.25 | 57.15 |
| 32 | 16 | 17 | 32 | 2.395 | 60.83 | 2.73 | 69.34 | 2.75 | 69.85 |
| 36 | 17 | 19 | 36 | 2.635 | 66.93 | 2.73 | 69.34 | 3.125 | 79.38 |
| 40 | 19 | 21 | 40 | 2.885 | 73.28 | 2.88 | 73.15 | 4.125 | 104.78 |
| 44 | 21 | 23 | 44 | 3.135 | 79.63 | 3.00 | 76.20 | 4.125 | 104.78 |
| 48 | 23 | 25 | 48 | 3.385 | 85.98 | 3.12 | 79.25 | 4.125 | 104.78 |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

**TABLE – B**

| ENTRY SIZE | W ±0.020 | W ±0.508 | Y +0.008 -0.000 | Y +0.200 -0.000 | Z MAX | Z MAX |
|---|---|---|---|---|---|---|
| | INCH | MM | INCH | MM | INCH | MM |
| 01 | 0.250 | 6.350 | 0.044 | 1.12 | 0.56 | 14.22 |
| 02 | 0.312 | 7.920 | 0.044 | 1.12 | 0.63 | 16.00 |
| 03 | 0.375 | 9.530 | 0.044 | 1.12 | 0.69 | 17.53 |
| 04 | 0.438 | 11.130 | 0.044 | 1.12 | 0.75 | 19.05 |
| 05 | 0.500 | 12.700 | 0.044 | 1.12 | 0.82 | 20.83 |
| 06 | 0.562 | 14.270 | 0.044 | 1.12 | 0.89 | 22.61 |
| 07 | 0.625 | 15.880 | 0.044 | 1.12 | 0.95 | 24.13 |
| 08 | 0.688 | 17.480 | 0.044 | 1.12 | 1.02 | 25.91 |
| 09 | 0.750 | 19.050 | 0.069 | 1.75 | 1.07 | 27.18 |
| 10 | 0.812 | 20.620 | 0.069 | 1.75 | 1.13 | 28.70 |
| 11 | 0.875 | 22.230 | 0.069 | 1.75 | 1.19 | 30.23 |
| 12 | 0.938 | 23.830 | 0.069 | 1.75 | 1.26 | 32.00 |
| 13 | 1.000 | 25.400 | 0.069 | 1.75 | 1.32 | 33.53 |
| 14 | 1.125 | 28.575 | 0.069 | 1.75 | 1.47 | 37.34 |
| 15 | 1.250 | 31.750 | 0.069 | 1.75 | 1.60 | 40.64 |
| 16 | 1.375 | 34.930 | 0.069 | 1.75 | 1.71 | 43.43 |
| 17 | 1.500 | 38.100 | 0.086 | 2.18 | 1.84 | 46.74 |
| 18 | 1.625 | 41.280 | 0.086 | 2.18 | 2.00 | 50.80 |
| 19 | 1.750 | 44.450 | 0.086 | 2.18 | 2.12 | 53.85 |
| 20 | 1.875 | 47.630 | 0.086 | 2.18 | 2.27 | 57.66 |
| 21 | 2.000 | 50.800 | 0.086 | 2.18 | 2.44 | 61.98 |
| 22 | 2.125 | 53.980 | 0.086 | 2.18 | 2.60 | 66.04 |
| 23 | 2.250 | 57.150 | 0.086 | 2.18 | 2.75 | 69.85 |
| 24 | 2.375 | 60.325 | 0.086 | 2.18 | 2.90 | 73.66 |
| 25 | 2.500 | 63.500 | 0.086 | 2.18 | 3.06 | 77.72 |

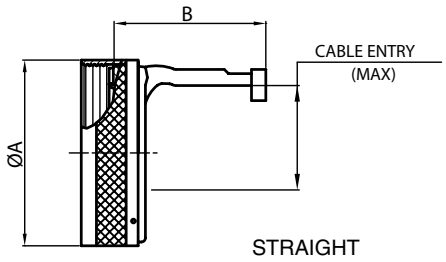
Amphenol

# For Connector Family J

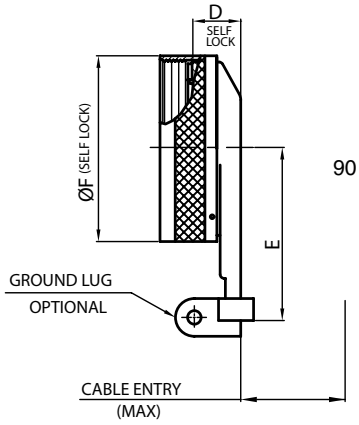
**26482 Matrix Series 2** **5015 Matrix (MS345X)**

**83723 Matrix & Pyle Series III**

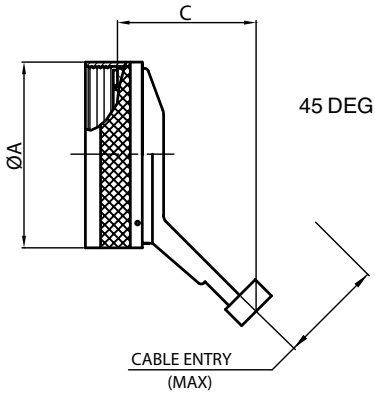
Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III




STRAIGHT




90 DEGREE




45 DEGREE

**MIL Part Number**

**M85049 / 53 – 10 W**

MIL Series

Slash Sheet:
53: Straight
55: 90°
54: 45°

Coupling:
–: Non Self-Lock
G: Non Self-Lock with grounding Lug (only for 90°)
S: Self-Lock (only for 90°)
T: Self-Lock with grounding lug (only for 90°)

Finish:
See Table-2
(pg. 486)

Dash Number:
See Table-A

**TABLE – A**

| MIL PART NUMBER DESIGNATOR | CONNECTOR SHELL SIZE | A DIA.(MAX) | | B (MAX) | | C (MAX) | | D (MAX) | | E (MAX) | | F DIA.(MAX) | | WIRING ENTRY MAX | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DASH NO | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 8 | 8 | 0.66 | 16.69 | 0.95 | 24.23 | 1.23 | 31.29 | 0.73 | 18.54 | 1.22 | 30.99 | 0.89 | 22.48 | 0.26 | 6.60 |
| 10 | 10 | 0.78 | 19.86 | 0.95 | 24.23 | 1.23 | 31.29 | 0.73 | 18.54 | 1.29 | 32.77 | 1.01 | 25.65 | 0.37 | 9.27 |
| 12 | 07/12/12 | 0.94 | 23.80 | 0.95 | 24.23 | 1.23 | 31.29 | 0.73 | 18.54 | 1.62 | 41.15 | 1.14 | 28.83 | 0.50 | 12.73 |
| 14 | 12/14/12 | 1.05 | 26.67 | 1.20 | 30.58 | 1.23 | 31.29 | 0.73 | 18.54 | 1.66 | 42.16 | 1.26 | 32.00 | 0.58 | 14.61 |
| 16 | 19/16 | 1.24 | 31.47 | 1.20 | 30.58 | 1.23 | 31.29 | 0.73 | 18.54 | 1.72 | 43.69 | 1.39 | 35.18 | 0.70 | 17.78 |
| 18 | 27/18 | 1.38 | 35.00 | 1.20 | 30.58 | 1.23 | 31.29 | 0.73 | 18.54 | 1.72 | 43.69 | 1.51 | 38.35 | 0.78 | 19.79 |
| 20 | 37/20 | 1.50 | 38.10 | 1.31 | 33.27 | 1.48 | 37.64 | 0.75 | 19.05 | 1.79 | 45.47 | 1.64 | 41.53 | 0.90 | 22.96 |
| 22 | 22 | 1.63 | 41.43 | 1.43 | 36.32 | 1.48 | 37.64 | 0.75 | 19.05 | 1.85 | 46.99 | 1.76 | 44.70 | 1.03 | 26.14 |
| 24 | 24 | 1.75 | 44.45 | 1.56 | 39.62 | 1.48 | 37.64 | 0.75 | 19.05 | 1.91 | 48.51 | 1.89 | 47.88 | 1.14 | 29.06 |
| 28 | 28 | 1.97 | 50.04 | 1.56 | 39.62 | 1.47 | 37.31 | 0.75 | 19.05 | 2.06 | 52.32 | 2.14 | 54.23 | 1.38 | 35.03 |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

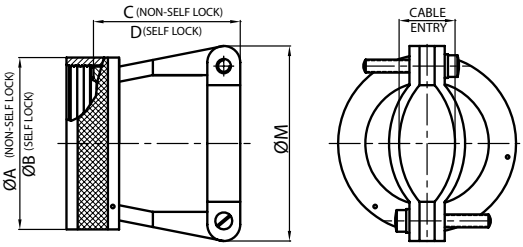
# Strain Relief Clamp

## Straight, 90° and 45°, Self-Lock/Non Self-Lock

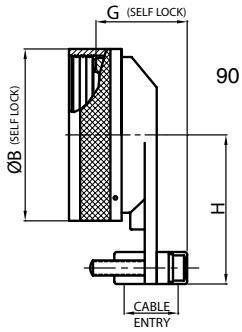
## For Connector Family J

**26482 Matrix Series 2** | **5015 Matrix (MS345X)** | **83723 Matrix & Pyle Series III**

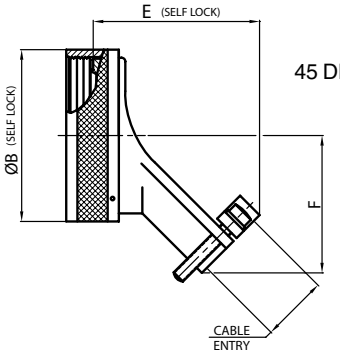
Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III




STRAIGHT




90 DEGREE




45 DEGREE

**MIL Part Number**

**M85049 / 52 – 10 W**

MIL Series

Slash Sheet:
52: Straight
51: 90°
43: 45°

Coupling:
S: Self-Lock
–: Non Self-Lock for 45° & Straight
-1-: Non Self-Lock for 90°

Finish:
See Table-2
(pg. 486)

Dash Number:
See Table-A

**TABLE – A**

| MIL PART NUMBER DESIGNATOR | CONNECTOR SHELL SIZE | A DIA.(MAX) | | B DIA.(MAX) | | C (MAX) | | D (MAX) | | E (MAX) | | F (MAX) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DASH NO | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 8 | 8 | 0.62 | 15.67 | 0.89 | 22.48 | 0.63 | 16.00 | 0.73 | 18.54 | 1.32 | 33.53 | 0.77 | 19.61 |
| 10 | 10 | 0.73 | 18.64 | 1.01 | 25.65 | 0.74 | 18.80 | 0.85 | 21.59 | 1.36 | 34.65 | 0.80 | 20.40 |
| 12 | 7/12 | 0.86 | 21.79 | 1.14 | 28.83 | 0.86 | 21.84 | 0.98 | 24.89 | 1.44 | 36.53 | 0.87 | 22.00 |
| 14 | 12/14 | 0.98 | 24.99 | 1.26 | 32.00 | 0.86 | 21.84 | 0.98 | 24.89 | 1.48 | 37.59 | 0.93 | 23.57 |
| 16 | 19/16 | 1.11 | 28.24 | 1.39 | 35.18 | 0.99 | 25.15 | 1.10 | 27.94 | 1.59 | 40.28 | 0.99 | 25.17 |
| 18 | 27/18 | 1.22 | 30.94 | 1.51 | 38.35 | 1.24 | 31.50 | 1.35 | 34.29 | 1.70 | 43.28 | 1.11 | 28.19 |
| 20 | 37/20 | 1.35 | 34.16 | 1.64 | 41.53 | 1.36 | 34.54 | 1.48 | 37.59 | 1.75 | 44.40 | 1.17 | 29.77 |
| 22 | 22 | 1.47 | 37.29 | 1.76 | 44.70 | 1.49 | 37.85 | 1.60 | 40.64 | 1.79 | 45.52 | 1.24 | 31.37 |
| 24 | 24 | 1.59 | 40.46 | 1.89 | 47.88 | 1.61 | 40.89 | 1.73 | 43.94 | 1.84 | 46.63 | 1.30 | 32.94 |
| 28 | 28 | 1.97 | 50.01 | 2.14 | 54.23 | 1.76 | 44.70 | 1.88 | 47.75 | 1.96 | 49.81 | 1.54 | 39.19 |
| 32 | 32 | 2.22 | 56.36 | 2.40 | 60.83 | 1.95 | 49.53 | 2.13 | 54.10 | 2.05 | 52.04 | 1.67 | 42.37 |
| 36 | 36 | 2.47 | 62.71 | 2.64 | 66.93 | 2.33 | 59.18 | 2.44 | 61.98 | 2.09 | 53.16 | 1.79 | 45.54 |
| 40 | 40 | 2.72 | 69.06 | 2.89 | 73.28 | 2.51 | 63.75 | 2.63 | 66.80 | 2.09 | 53.19 | 1.92 | 48.72 |
| 44 | 44 | 2.97 | 75.41 | 3.14 | 79.63 | 2.89 | 73.41 | 3.00 | 76.20 | 2.36 | 59.94 | 2.13 | 54.15 |
| 48 | 48 | 3.22 | 81.76 | 3.39 | 85.98 | 3.26 | 82.80 | 3.40 | 86.36 | 2.45 | 62.18 | 2.26 | 57.33 |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

## For Connector Family J

**26482 Matrix Series 2** **5015 Matrix (MS345X)**

**83723 Matrix & Pyle Series III**

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III

| TABLE – A | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MIL PART NUMBER DESIGNATOR | CONNECTOR SHELL SIZE | G (MAX) | | H (MAX) | | M (MAX) | | CABLE ENTRY | | | |
| | | | | | | | | MIN | | MAX | |
| DASH NO | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 08 | 8 | 0.93 | 23.62 | 0.75 | 18.95 | 0.78 | 19.86 | 0.13 | 3.18 | 0.20 | 5.18 |
| 10 | 10 | 1.02 | 25.91 | 0.81 | 20.45 | 0.86 | 21.89 | 0.19 | 4.75 | 0.29 | 7.26 |
| 12 | 7/12 | 1.21 | 30.73 | 0.87 | 22.02 | 1.00 | 25.48 | 0.29 | 7.39 | 0.42 | 10.57 |
| 14 | 12/14 | 1.27 | 32.26 | 0.93 | 23.62 | 1.06 | 26.95 | 0.35 | 8.92 | 0.48 | 12.09 |
| 16 | 19/16 | 1.42 | 36.07 | 0.99 | 25.25 | 1.33 | 33.88 | 0.50 | 12.73 | 0.63 | 15.90 |
| 18 | 27/18 | 1.53 | 38.86 | 1.17 | 29.74 | 1.47 | 37.24 | 0.52 | 13.16 | 0.71 | 17.93 |
| 20 | 37/20 | 1.65 | 41.91 | 1.23 | 31.34 | 1.57 | 39.93 | 0.58 | 14.76 | 0.83 | 21.11 |
| 22 | 22 | 1.78 | 45.21 | 1.30 | 32.92 | 1.69 | 42.88 | 0.64 | 16.36 | 0.96 | 24.28 |
| 24 | 24 | 1.90 | 48.26 | 1.36 | 34.49 | 1.79 | 45.47 | 0.71 | 17.93 | 1.08 | 27.46 |
| 28 | 28 | 2.20 | 55.88 | 1.57 | 39.93 | 2.04 | 51.69 | 0.75 | 19.05 | 1.19 | 30.15 |
| 32 | 32 | 2.27 | 57.66 | 1.80 | 45.64 | 2.39 | 60.60 | 0.88 | 22.23 | 1.25 | 31.75 |
| 36 | 36 | 2.39 | 60.71 | 1.92 | 48.82 | 2.50 | 63.40 | 0.94 | 23.83 | 1.38 | 34.93 |
| 40 | 40 | 2.52 | 64.01 | 2.05 | 51.99 | 2.57 | 65.18 | 0.94 | 23.83 | 1.50 | 38.10 |
| 44 | 44 | 2.77 | 70.36 | 2.30 | 58.32 | 2.86 | 72.64 | 1.19 | 30.18 | 1.75 | 44.45 |
| 48 | 48 | 2.89 | 73.41 | 2.42 | 61.49 | 3.34 | 84.94 | 1.31 | 33.32 | 1.88 | 47.63 |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

# Strain Relief Clamp

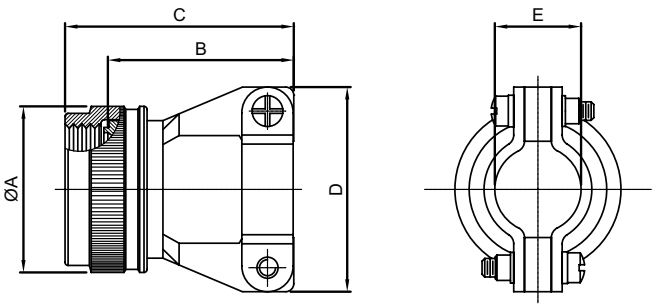
## Straight, Self-Lock/Non Self-Lock

## For Connector Family J

**26482 Matrix Series 2** | **5015 Matrix (MS345X)**

**83723 Matrix & Pyle Series III**

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III




**MIL Part Number**

**M85049 / 118 – 10 W**

- MIL Series
- Slash Sheet: 118: Straight
- Finish: See Table-2 (pg. 486)
- Dash Number: See Table-A
- Coupling: S: Self-Lock –: Non Self-Lock

**TABLE – A**

| MIL PART NUMBER DESIGNATOR | CONNECTOR SHELL SIZE/ CODE (REF.) | A DIA.(MAX) | | B LENGTH | | C (MAX) | | D (MAX) | | E (CLOSED) ±.031 | E (CLOSED) ±.787 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CONNECTOR SHELL SIZE | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 08 | 8S | 0.89 | 22.61 | 0.77/0.51 | 19.56/12.95 | 1.14 | 28.96 | 0.88 | 22.35 | 0.22 | 5.56 |
| 10 | 10S, 10SL | 1.01 | 25.65 | 0.89/0.64 | 22.61/16.26 | 1.25 | 31.75 | 0.94 | 23.88 | 0.26 | 6.71 |
| 12 | 12, 12S | 1.14 | 28.96 | 1.01/0.76 | 25.65/19.30 | 1.38 | 35.05 | 1.12 | 28.45 | 0.34 | 8.74 |
| 14 | 14, 14S | 1.26 | 32.00 | 1.01/0.76 | 25.65/19.30 | 1.38 | 35.05 | 1.19 | 30.23 | 0.46 | 11.68 |
| 16 | 16, 16S | 1.39 | 35.31 | 1.13/0.88 | 28.70/22.35 | 1.50 | 38.10 | 1.44 | 36.58 | 0.55 | 13.84 |
| 18 | 18 | 1.51 | 38.35 | 1.38/1.13 | 35.05/28.70 | 1.75 | 44.45 | 1.56 | 39.62 | 0.62 | 15.62 |
| 20 | 20 | 1.64 | 41.66 | 1.51/1.25 | 38.35/31.75 | 1.88 | 47.75 | 1.69 | 42.93 | 0.69 | 17.53 |
| 22 | 22 | 1.76 | 44.70 | 1.62/1.38 | 41.15/35.05 | 2.00 | 50.80 | 1.75 | 44.45 | 0.78 | 19.81 |
| 24 | 24 | 1.89 | 48.01 | 1.76/1.51 | 44.70/38.35 | 2.13 | 54.10 | 1.88 | 47.75 | 0.85 | 21.59 |
| 28 | 28 | 2.14 | 54.36 | 2.03/1.67 | 51.56/42.42 | 2.56 | 65.02 | 2.12 | 53.85 | 0.95 | 24.13 |
| 32 | 32 | 2.40 | 60.96 | 2.28/1.87 | 57.91/47.50 | 2.81 | 71.37 | 2.50 | 63.50 | 1.02 | 25.78 |
| 36 | 36 | 2.64 | 67.06 | 2.53/2.22 | 64.26/56.39 | 3.06 | 77.72 | 2.62 | 66.55 | 1.19 | 30.15 |
| 40 | 40 | 2.89 | 73.41 | 2.63/2.41 | 66.80/61.21 | 3.16 | 80.26 | 2.68 | 68.07 | 1.22 | 30.99 |
| 44 | 44 | 3.14 | 79.76 | 3.00/2.80 | 76.20/71.12 | 3.53 | 89.66 | 3.00 | 76.20 | 1.50 | 38.10 |
| 48 | 48 | 3.39 | 86.11 | 3.40/3.20 | 86.36/81.28 | 3.93 | 99.82 | 3.50 | 88.90 | 1.63 | 41.28 |

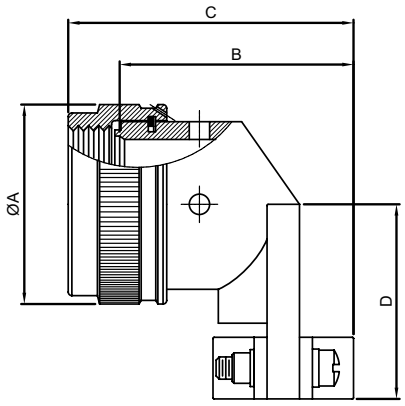
Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

# For Connector Family J

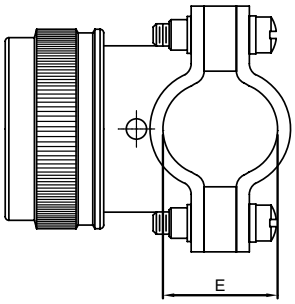
**26482 Matrix Series 2** **5015 Matrix (MS345X)**

**83723 Matrix & Pyle Series III**

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III




90 DEGREE




**MIL Part Number**

**M85049 / 120 – 10 W**

- MIL Series
- Slash Sheet: 120: 90°
- Finish: See Table-2 (pg. 486)
- Dash Number: See Table-A
- Coupling: S: Self-Lock –: Non Self-Lock

**TABLE – A**

| MIL PART NUMBER DESIGNATOR | CONNECTOR SHELL SIZE | A DIA.(MAX) | | B (MAX) | | C (MAX) | | D (MAX) | | E (CLOSED) ±.031 | E (CLOSED) ±.787 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DASH NO | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 08 | 8S | 0.88 | 22.35 | 0.93 | 23.62 | 1.29 | 32.77 | 0.81 | 20.57 | 0.22 | 5.56 |
| 10 | 10S, 10SL | 0.94 | 23.88 | 1.02 | 25.91 | 1.38 | 35.05 | 0.87 | 22.10 | 0.26 | 6.71 |
| 12 | 12, 12S | 1.12 | 28.45 | 1.21 | 30.73 | 1.57 | 39.88 | 0.93 | 23.62 | 0.34 | 8.74 |
| 14 | 14, 14S | 1.19 | 30.23 | 1.27 | 32.26 | 1.63 | 41.40 | 1.00 | 25.40 | 0.46 | 11.68 |
| 16 | 16, 16S | 1.44 | 36.58 | 1.42 | 36.07 | 1.78 | 45.21 | 1.06 | 26.92 | 0.55 | 13.84 |
| 18 | 18 | 1.56 | 39.62 | 1.53 | 38.86 | 1.89 | 48.01 | 1.23 | 31.24 | 0.62 | 15.62 |
| 20 | 20 | 1.69 | 42.93 | 1.65 | 41.91 | 2.01 | 51.05 | 1.30 | 33.02 | 0.70 | 17.73 |
| 22 | 22 | 1.75 | 44.45 | 1.78 | 45.21 | 2.14 | 54.36 | 1.36 | 34.54 | 0.78 | 19.81 |
| 24 | 24 | 1.88 | 47.75 | 1.90 | 48.26 | 2.26 | 57.40 | 1.42 | 36.07 | 0.85 | 21.59 |
| 28 | 28 | 2.12 | 53.85 | 2.20 | 55.88 | 2.72 | 69.09 | 1.63 | 41.40 | 0.95 | 24.13 |
| 32 | 32 | 2.50 | 63.50 | 2.27 | 57.66 | 2.79 | 70.87 | 1.86 | 47.24 | 1.02 | 25.78 |
| 36 | 36 | 2.62 | 66.55 | 2.39 | 60.71 | 2.91 | 73.91 | 1.98 | 50.29 | 1.19 | 30.15 |
| 40 | 40 | 2.68 | 68.07 | 2.52 | 64.01 | 3.04 | 77.22 | 2.10 | 53.34 | 1.22 | 30.99 |
| 44 | 44 | 3.00 | 76.20 | 2.77 | 70.36 | 3.29 | 83.57 | 2.36 | 59.94 | 1.50 | 38.10 |
| 48 | 48 | 3.50 | 88.90 | 2.89 | 73.41 | 3.41 | 86.61 | 2.48 | 62.99 | 1.63 | 41.28 |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

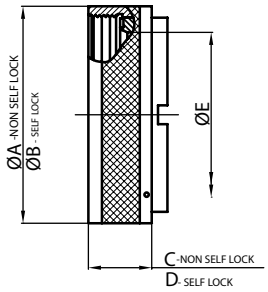
# Grommet Nut

## Straight, Self-Lock/Non Self-Lock

## For Connector Family J

**26482 Matrix Series 2** | **5015 Matrix (MS345X)** | **83723 Matrix & Pyle Series III**

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III




**MIL Part Number**

**M85049 / 31 – 10 W**

- MIL Series
- Slash Sheet: 31: Straight
- Finish: See Table-2 (pg. 486)
- Dash Number: See Table-A
- Coupling: S: Self-Lock –: Non Self-Lock

**TABLE-A**

| MIL PART NUMBER DESIGNATOR | CONNECTOR SHELL SIZE | A DIA. (MAX) | | B DIA. (MAX) | | C (MAX) | | D (MAX) | | E (MAX) | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DASH NO | | INCH | MM | INCH | MM | INCH | MM | INCH | MM | INCH | MM |
| 08 | 8 | 0.62 | 15.67 | 0.89 | 22.48 | 0.54 | 13.72 | 0.71 | 18.03 | 0.27 | 6.86 |
| 10 | 10 | 0.73 | 18.64 | 1.01 | 25.65 | 0.54 | 13.72 | 0.71 | 18.03 | 0.38 | 9.53 |
| 12 | 7/12 | 0.86 | 21.79 | 1.14 | 28.83 | 0.54 | 13.72 | 0.71 | 18.03 | 0.51 | 12.98 |
| 14 | 12/14 | 0.98 | 24.99 | 1.26 | 32.00 | 0.54 | 13.72 | 0.71 | 18.03 | 0.59 | 14.86 |
| 16 | 19/16 | 1.11 | 28.24 | 1.39 | 35.18 | 0.54 | 13.72 | 0.71 | 18.03 | 0.71 | 18.03 |
| 18 | 27/18 | 1.22 | 30.94 | 1.51 | 38.35 | 0.54 | 13.72 | 0.71 | 18.03 | 0.79 | 20.04 |
| 20 | 37/20 | 1.35 | 34.16 | 1.64 | 41.53 | 0.54 | 13.72 | 0.71 | 18.03 | 0.91 | 23.22 |
| 22 | 22 | 1.47 | 37.29 | 1.76 | 44.70 | 0.54 | 13.72 | 0.71 | 18.03 | 1.04 | 26.39 |
| 24 | 24 | 1.59 | 40.46 | 1.89 | 47.88 | 0.54 | 13.72 | 0.71 | 18.03 | 1.15 | 29.31 |
| 28 | 28 | 1.97 | 50.01 | 2.14 | 54.23 | 0.70 | 17.83 | 0.89 | 22.61 | 1.39 | 35.28 |
| 32 | 32 | 2.22 | 56.36 | 2.40 | 60.83 | 0.70 | 17.83 | 0.89 | 22.61 | 1.64 | 41.53 |
| 36 | 36 | 2.47 | 62.71 | 2.64 | 66.93 | 0.70 | 17.83 | 0.89 | 22.61 | 1.85 | 46.99 |
| 40 | 40 | 2.72 | 69.06 | 2.89 | 73.28 | 0.70 | 17.83 | 0.89 | 22.61 | 2.07 | 52.45 |
| 44 | 44 | 2.97 | 75.41 | 3.14 | 79.63 | 0.70 | 17.83 | 0.89 | 22.61 | 2.32 | 58.93 |
| 48 | 48 | 3.22 | 81.76 | 3.39 | 85.98 | 0.70 | 17.83 | 0.89 | 22.61 | 2.57 | 65.28 |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

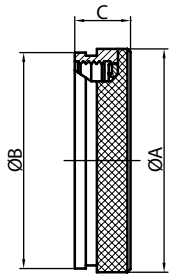
Amphenol

# For Connector Family J

**26482 Matrix Series 2** **5015 Matrix (MS345X)**

**83723 Matrix & Pyle Series III**

Connector Family "J", includes:
MIL-DTL-26482 Series 2,
MIL-DTL-5015 Matrix (MS345X)
MIL-DTL-83723 Series III




**MIL Part Number**

**M85049 / 31 – 10 W**

- MIL Series
- Slash Sheet: 31: Straight
- Finish: See Table-2 (pg. 486)
- Dash Number: See Table-A
- Coupling: S: Self-Lock –: Non Self-Lock

**TABLE-A**

| MIL PART NUMBER DESIGNATOR / ACCESSORY SHELL SIZE | CONNECTOR SHELL SIZE | A DIA. (MAX) | | B DIA. (MAX) | | C (MAX) | |
|---|---|---|---|---|---|---|---|
| | | INCH | MM | INCH | MM | INCH | MM |
| 08 | 8 | 0.69 | 17.48 | 0.66 | 16.69 | 0.54 | 13.72 |
| 10 | 10 | 0.80 | 20.40 | 0.77 | 19.66 | 0.54 | 13.72 |
| 12 | 7/12 | 0.94 | 23.83 | 0.90 | 22.81 | 0.54 | 13.72 |
| 14 | 12/14 | 1.06 | 27.00 | 1.02 | 26.01 | 0.54 | 13.72 |
| 16 | 19/16 | 1.24 | 31.45 | 1.15 | 29.26 | 0.54 | 13.72 |
| 18 | 27/18 | 1.31 | 33.27 | 1.24 | 31.57 | 0.54 | 13.72 |
| 20 | 37/20 | 1.44 | 36.47 | 1.37 | 34.80 | 0.54 | 13.72 |
| 22 | 22 | 1.56 | 39.62 | 1.44 | 36.65 | 0.54 | 13.72 |
| 24 | 24 | 1.69 | 42.82 | 1.62 | 41.10 | 0.54 | 13.72 |
| 28 | 28 | 2.06 | 52.37 | 1.97 | 50.01 | 0.70 | 17.83 |
| 32 | 32 | 2.31 | 58.72 | 2.22 | 56.36 | 0.70 | 17.83 |
| 36 | 36 | 2.56 | 65.07 | 2.47 | 62.71 | 0.70 | 17.83 |
| 40 | 40 | 2.81 | 71.42 | 2.72 | 69.06 | 0.70 | 17.83 |
| 44 | 44 | 3.06 | 77.77 | 2.97 | 75.41 | 0.70 | 17.83 |
| 48 | 48 | 3.31 | 84.12 | 3.22 | 81.76 | 0.70 | 17.83 |

Note: For more cable entry and length options, email: sales@backshellworld.com
All dimensions for reference only.

LifeElectronics
Живое партнерство

**ООО «ЛайфЭлектроникс»** **“LifeElectronics” LLC**

*ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703*

*Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.*

*С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров*

*Мы предлагаем:*

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- *Специальные условия для постоянных клиентов.*
- *Подбор аналогов.*
- *Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.*

- *Приемлемые сроки поставки, возможна ускоренная поставка.*
- *Доставку товара в любую точку России и стран СНГ.*
- *Комплексную поставку.*
- *Работу по проектам и поставку образцов.*
- *Формирование склада под заказчика.*

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- *Техническую поддержку проекта.*
- *Защиту от снятия компонента с производства.*
- *Оценку стоимости проекта по компонентам.*
- *Изготовление тестовой платы монтаж и пусконаладочные работы.*

*Тел: +7 (812) 336 43 04 (многоканальный)*
*Email: org@lifeelectronics.ru*

***www.lifeelectronics.ru***