



TE Connectivity
300 Constitutional Drive
Menlo Park, CA 94025 USA

DOCUMENT NUMBER
DK-602-0156 Series

REVISION
F1

SPECIFICATION CONTROL DRAWING

CONTACTS, ELECTRICAL CONNECTOR, CONCENTRIC TRIAX FOR TWINAX CABLE, PIN,
SOLDERTACT®, SIZE 8
(FOR MIL-C-38999 SERIES I, III and IV)

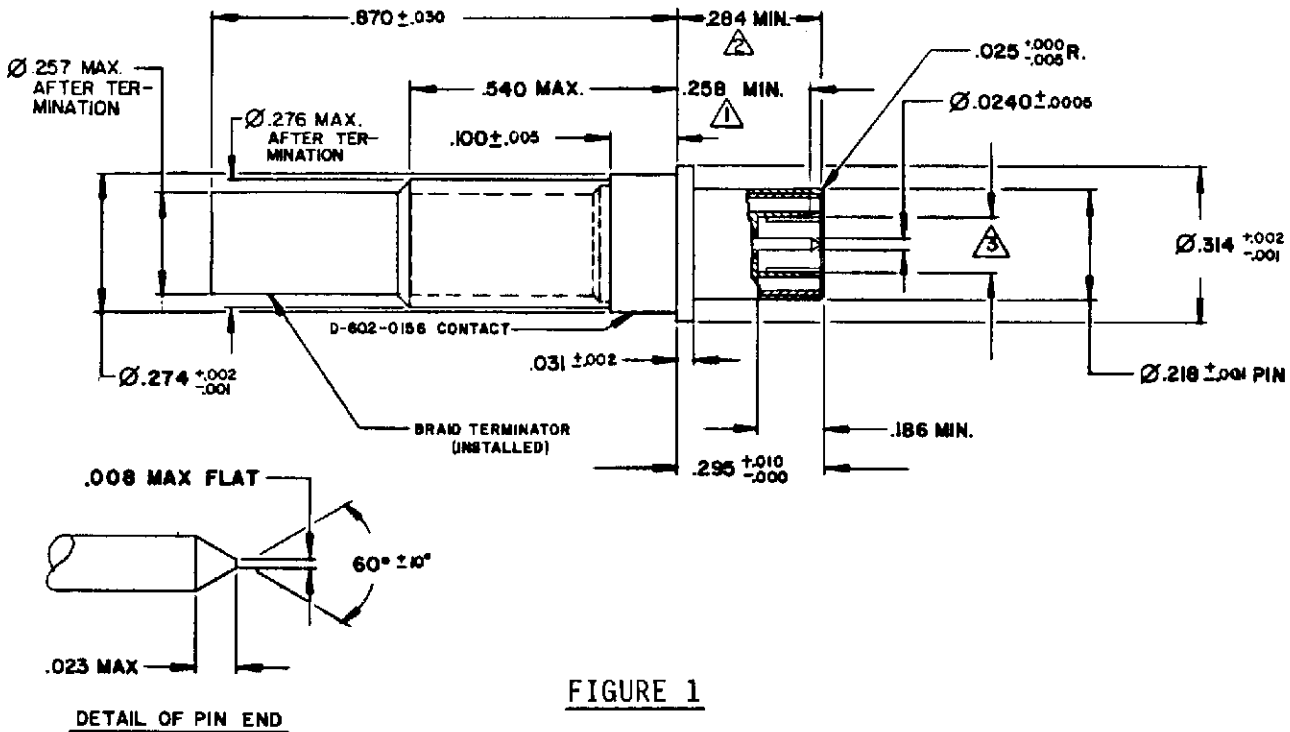


FIGURE 1

TABLE I

| Inch | MM | Inch | MM | Inch | MM | Inch | MM |
|-------|-------|-------|------|-------|------|-------|-------|
| .0005 | 0.013 | .0230 | 0.58 | .1860 | 4.72 | .2840 | 7.21 |
| .0010 | 0.03 | .0240 | 0.61 | .2180 | 5.54 | .2950 | 7.49 |
| .0020 | 0.05 | .0250 | 0.64 | .2570 | 6.53 | .3140 | 7.98 |
| .0050 | 0.13 | .0300 | 0.76 | .2580 | 6.55 | .5400 | 13.72 |
| .0080 | 0.20 | .0310 | 0.79 | .2740 | 6.96 | .8700 | 22.10 |
| .0100 | 0.25 | .1000 | 2.54 | .2760 | 7.01 | | |

NOTES:

- ① To point of engagement with a .113 basic diameter pin.
- ② To end of inner pin contact.
- ③ Socket mates with a .113 ± .001 diameter pin.
- 4. Dimensions are in inches after plating.
- 5. Metric dimensions are for information only.

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| | | | | |
|-----------------------|------------------------|------------------------|------------------------|---------------------------------------|
| PREPARED BY Cerdan | APPROVED IM 5/16/85 | APPROVED DT 5/16/85 | APPROVED DS 5-17-85 | DOCUMENT NUMBER DK-602-0156 Series |
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Configuration: DK-602-0156-Series Kit contains a contact per Figure 1 and a Braid Terminator as described in Table II. Note the dash number following the part number.

TABLE II

| Part Number | Braid Terminator | Cable O.D. Ref. |
|---------------|------------------|-----------------|
| DK-602-0156-1 | D-600-0044-1 | .140 max. |
| DK-602-0156-2 | D-600-0044-2 | .155 max. |
| DK-602-0156-3 | D-600-0044-3 | .170 max. |
| DK-602-0156-4 | D-600-0044-4 | .180 max. |

Qualification: Qualification Test Report is on file at Raychem.

Designs and Construction: Dimensions (Figure 1), design characteristics and configurations meet the functional requirement of M39029/90 for cable listed in Table III.

TABLE III. DESIGN CHARACTERISTICS

| Contact Cavity Size | Cables Accommodated <u>1/</u> | Type | Class |
|---------------------|---|---------------------------------|--------------|
| 8 | <u>Raychem</u> 10612 10613 10614 | (D) Copper Alloy Shielded | (A) 125°C |

1/ Other applications should be submitted to Raychem for evaluation.

Mating Contact: D-602-0157, D-602-0170 and M39029/91.

Tools: See Table IV.

TABLE IV. TOOLS

| Heating Tools <u>2/</u> | Reflectors <u>2/</u> | Holding Fixtures <u>2/</u> | Installing Tools | Removal Tools |
|-------------------------|----------------------|----------------------------|------------------|---------------|
| AA-400 Super Heater | Mini Solder Sleeve | Raychem | M81969/14-06 | M81969/14-06 |
| CV-5300 Mini Gun | MG-1 Solder Sleeve | AD-1319 with AT-1319-14. | M81969/46-06 | M81969/46-12 |

2/ See Termination Procedure: Raychem ES 61231.



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Electrical Performance:

Contact Resistance: See Table V.

TABLE V. CONTACT RESISTANCE

| Test Cable | Maximum Voltage Drop (millivolts) | | | | | | | | | Test Current (Amps) | | |
|----------------|-----------------------------------|----------------------------|-----------------------|-------------------------------|----------------------------|-----------------------|-----------------------|----------------------------|-----------------------|-----------------------|----------------------------|-----------------------|
| | 25° +3° -0°C | | | ^{3/} 25° +3° -0°C | | | 125° +3° -0°C | | | | | |
| | CONTACT | | | | | | | | | | | |
| | I N N E R | M I D D L E | O U T E R | I N N E R | M I D D L E | O U T E R | I N N E R | M I D D L E | O U T E R | I N N E R | M I D D L E | O U T E R |
| <u>Raychem</u> | | | | | | | | | | | | |
| 10612 | 55 | 55 | 75 | 66 | 66 | 90 | 94 | 94 | 128 | 1.0 | 1.0 | 12.0 |
| 10613 | | | | | | | | | | | | |
| 10614 | | | | | | | | | | | | |

^{3/} After conditioning.

Low Signal Level Contact Resistance: See Table VI.

TABLE VI. LOW SIGNAL LEVEL CONTACT RESISTANCE (INNER CONTACT ONLY)

| Test Cable | Maximum Contact Resistance (milliohms) | |
|----------------|--|--------------------|
| | Initial | After Conditioning |
| <u>Raychem</u> | | |
| 10612 | 55 | 66 |
| 10613 | | |
| 10614 | | |



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Dielectric Withstanding Voltage: See Table VII.

TABLE VII. DIELECTRIC WITHSTANDING VOLTAGE

| Contacts | Altitude | Test Voltages ac rms |
|-----------------|-----------|-------------------------|
| Inner to Middle | Sea Level | 1000 |
| Middle to Outer | Sea Level | 500 |

Operating Frequency: 0 to 20 MHz (operating frequency range)

Voltage Rating: 500 volts rms maximum at sea level; 125 volts at 70,000 feet

Mechanical Performance:

Contact Engagement and Separation Force (Socket Contacts Only): See Table VIII.

TABLE VIII. CONTACT ENGAGEMENT AND SEPARATION FORCE

| Test Pin Diameter (inch) | Minimum Separation Force (ounces) | | Maximum Engagement Force (ounces) | |
|--------------------------------|--------------------------------------|--------------------|--------------------------------------|--------------------|
| | Initial | After Conditioning | Initial | After Conditioning |
| .1140 +.0000 -.0001 | NA | NA | 18 | 22 |
| .1120 +.0001 -.0000 | 0.5 | 0.4 | NA | NA |

Tensile Strength: See Table IX.

TABLE IX. TENSILE STRENGTH (AT AMBIENT)

| Test Cable | Tensile Strength (pounds) (minimum) ^{4/} | | |
|----------------|--|----------------|---------------|
| | Inner Contact | Middle Contact | Outer Contact |
| <u>Raychem</u> | | | |
| 10612 | 8 | 8 | 15 |
| 10613 | 8 | 8 | 25 |
| 10614 | 8 | 8 | 25 |

^{4/} Cable may break before the termination.



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Vibration: Per MIL-C-39029/90A.

High Impact Shock: Per MIL-C-39029/90A.

Environmental Performance:

Operating Temperature: -65°C to +125°C.

Humidity: Per MIL-C-39029/90A.

Material:

Raw Material and Plating: Per MIL-C-39029, Type D.

Dielectric: Fluoropolymer.

Insulation Sleeve: Polyvinylidene Fluoride.

Solder: Sn63 per QQ-S-571 with RMA flux.



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| REV. LETTER | PAGE | DETAILS OF REVISION | DATE | BY |
|-------------|------|---------------------------|----------|--------------------|
| N/C | 1-6 | Released per E.O. D-3208 | 02/21/85 | IM |
| A | 1-6 | Revised per E.O. D-3338 | 05/16/85 | IM |
| B | 1 | Revised per E.O. D-3456 | 06/05/85 | IM |
| C | 1-6 | Revised per ECN T-06289 | 5/20/86 | <i>[Signature]</i> |
| D | 2 | Revised per ECN T-7900 | 4/15/87 | <i>[Signature]</i> |
| E | 1,4 | Revised per ECN T-08767 | 10/19/87 | <i>[Signature]</i> |
| F | 2,6 | Revised per ECN T-12833 | 8/28/89 | <i>[Signature]</i> |
| F1 | | REVISED PER ECO-11-005139 | 24MAR11 | RK / HMR |

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