# Micro-D Metal Shell
# MWDM Back-To-Back
## Unshielded Cable Assemblies

***Save Time and Money With Back-To-Back Cables***– These Micro-D connectors feature crimp wire terminations and epoxy encapsulation. The installed cost is lower than terminating solder cup connectors.

***100% Certified***– all back-to-back assemblies are 100% checked for continuity, resistance, voltage and insulation resistance.

***Hardware Note***– if jackposts are required on one end and jackscrews on the other, use hardware designator "B" (no hardware installed), and order hardware kits separately.

## HOW TO ORDER BACK-TO-BACK UNSHIELDED CABLES

| Series | Shell Material and Finish | Insulator Material | Contact Layout | Connect or Type | Wire Gage (AWG) | Wire Type | Wire Color | Total Length Inches | Hardware |
|---|---|---|---|---|---|---|---|---|---|
| MWDM | **Aluminum Shell**<br>1 – Cadmium<br>2 – Nickel<br>4 – Black Anodize<br>5 – Gold<br>6 – Chem Film<br>**Stainless Steel Shell**<br>3 – Passivated | L – LCP<br>30% Glass-Filled Liquid Crystal Polymer | 9<br>15<br>21<br>25<br>31<br>37<br>51<br>51-2<br>67<br>69<br>100 | GP – Pin (Plug) Connector Both Ends<br>GS – Socket (Receptacle) Connector Both Ends<br>CS – Pin Connector to Socket Connector | 4 – #24<br>6 – #26<br>8 – #28<br>0 – #30 | K – M22759/11 600 Vrms Teflon (TFE)<br>J – M22759/33 600 Vrms Modified Cross-Linked Tefzel® (ETFE)<br>E – NEMA HP3-EB 600 VrmsType E M16878/4 (TFE) (replaced by M22759/11 for mil spec applications) | 1 – White<br>2 – Yellow<br>7 – Ten Color Repeating<br>5 – Color-Coded Stripes Per MIL-STD-681<br>(Striped wire not available on 67, 69 or 100 pin connectors or for #28, #30 AWG)<br>7 – Ten Color Repeating | 18<br>Total Length In Inches. "18" Specifies 18 Inches<br>(2" Min. for 2 row, 3" Min. for 3 row, 4" Min. for 4 row) | B<br>P<br>M<br>M1<br>S<br>S1<br>L<br>K |
| ***Sample Part Number*** | | | | | | | | | |
| MWDM | 1 | L – | 25 | GP – | 6 | K | 7 – | 18 | B |

## MICRO-D MOUNTING HARDWARE

| B | P | M | M1 | S | S1 | L | K |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| **Thru-Hole**<br>Order Hardware Separately | **Jackpost**<br>Removable Includes Nut and Washer | **Jackscrew**<br>Hex Head Removable E-ring | **Jackscrew**<br>Hex Head Removable E-ring Extended | **Jackscrew**<br>Slot Head Removable E-ring | **Jackscrew**<br>Slot Head Removable E-ring Extended | **Jackscrew**<br>Hex Head Non- Removable | **Jackscrew**<br>Slot Head Non-Removable Extended |

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## Unshielded Cable Assemblies

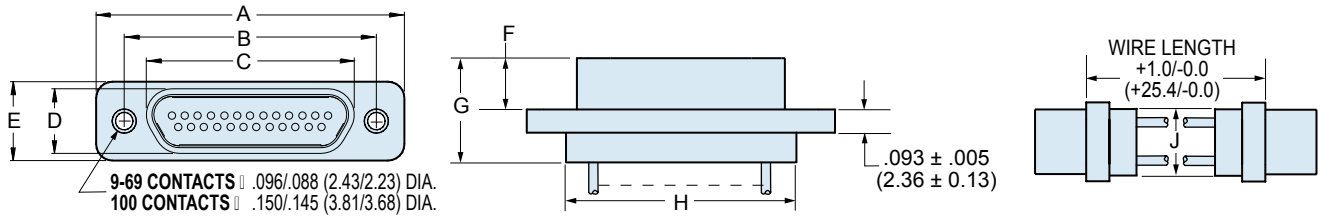
Glenair®

## PERFORMANCE SPECIFICATIONS

| | |
|---|---|
| Current Rating | 3 AMP |
| DWV | 600 VAC Sea level |
| Insulation Resistance | 5000 Megohms Minimum |
| Contact Resistance | 8 Milliohms Maximum |
| Low Level Contact Resist. | 32 Milliohms Maximum |
| Magnetic Permeability | 2 µ Maximum |
| Operating Temperature | -55° C. to +150° C. |
| Shock, Vibration | 50 g., 20g. |
| Mating Force | (10 Ounces) X (# of Contacts) |

## MATERIALS AND FINISHES

| | |
|---|---|
| Connector Shell | Aluminum Alloy 6061 or Stainless Steel, 300 Series, passivated. See Ordering Info for Plating Options |
| Insulator | Liquid Crystal Polymer (LCP) |
| Interfacial Seal | Fluorosilicone Rubber, Blue |
| Pin Contact | Beryllium Copper Gold over Nickel Plating |
| Socket Contact | Copper Alloy Gold Over Nickel Plating |
| Hardware | 300 Series Stainless Steel |
| Encapsulant | Epoxy Resin Hysol EE4215 |




## DIMENSIONS

| Layout | A Max. | | B | | C Max. | | D Max. | | E Max. | | F | | G Max. | | H Max. | | J Max. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. ± .003 | mm. ± 0.08 | In. | mm. | In. | mm. | In. | mm. | In. ± .003 | mm. ± 0.08 | In. | mm. | In. | mm. | In. | mm. |
| **9P** | .785 | 19.94 | .565 | 14.35 | .333 | 8.46 | .184 | 4.67 | .308 | 7.82 | .183 | 4.65 | .416 | 10.57 | .400 | 10.16 | .270 | 6.86 |
| **9S** | .785 | 19.94 | .565 | 14.35 | .400 | 10.16 | .250 | 6.35 | .308 | 7.82 | .195 | 4.95 | .429 | 10.90 | .400 | 10.16 | .270 | 6.86 |
| **15P** | .935 | 23.75 | .715 | 18.16 | .483 | 12.27 | .184 | 4.67 | .308 | 7.82 | .183 | 4.65 | .416 | 10.57 | .550 | 13.97 | .270 | 6.86 |
| **15S** | .935 | 23.75 | .715 | 18.16 | .551 | 14.00 | .250 | 6.35 | .308 | 7.82 | .195 | 4.95 | .429 | 10.90 | .550 | 13.97 | .270 | 6.86 |
| **21P** | 1.085 | 27.56 | .865 | 21.97 | .633 | 16.08 | .184 | 4.67 | .308 | 7.82 | .183 | 4.65 | .416 | 10.57 | .700 | 17.78 | .270 | 6.86 |
| **21S** | 1.085 | 27.56 | .865 | 21.97 | .701 | 17.81 | .250 | 6.35 | .308 | 7.82 | .195 | 4.95 | .429 | 10.90 | .700 | 17.78 | .270 | 6.86 |
| **25P** | 1.185 | 30.01 | .965 | 24.51 | .733 | 18.62 | .184 | 4.67 | .308 | 7.82 | .183 | 4.65 | .416 | 10.57 | .800 | 20.32 | .270 | 6.86 |
| **25S** | 1.185 | 30.01 | .965 | 24.51 | .801 | 20.35 | .250 | 6.35 | .308 | 7.82 | .195 | 4.95 | .429 | 10.90 | .800 | 20.32 | .270 | 6.86 |
| **31P** | 1.335 | 33.91 | 1.115 | 28.32 | .883 | 22.43 | .184 | 4.67 | .308 | 7.82 | .183 | 4.65 | .416 | 10.57 | .950 | 24.13 | .270 | 6.86 |
| **31S** | 1.335 | 33.91 | 1.115 | 28.32 | .951 | 24.16 | .250 | 6.35 | .308 | 7.82 | .195 | 4.95 | .429 | 10.90 | .950 | 24.13 | .270 | 6.86 |
| **37P** | 1.485 | 37.72 | 1.265 | 32.13 | 1.033 | 26.24 | .184 | 4.67 | .308 | 7.82 | .183 | 4.65 | .416 | 10.57 | 1.100 | 27.94 | .270 | 6.86 |
| **37S** | 1.485 | 37.72 | 1.265 | 32.13 | 1.101 | 27.96 | .250 | 6.35 | .308 | 7.82 | .195 | 4.95 | .429 | 10.90 | 1.100 | 27.94 | .270 | 6.86 |
| **51P** | 1.435 | 36.45 | 1.215 | 30.86 | .983 | 24.97 | .228 | 5.79 | .351 | 8.92 | .183 | 4.65 | .416 | 10.57 | 1.050 | 26.67 | .310 | 7.87 |
| **51S** | 1.435 | 36.45 | 1.215 | 30.86 | 1.051 | 26.70 | .296 | 7.52 | .351 | 8.92 | .195 | 4.95 | .429 | 10.90 | 1.050 | 26.67 | .310 | 7.87 |
| **51-2P** | 1.835 | 46.61 | 1.615 | 41.02 | 1.384 | 35.15 | .184 | 4.67 | .310 | 7.87 | .183 | 4.65 | .416 | 10.57 | 1.450 | 36.83 | .270 | 6.86 |
| **51-2S** | 1.835 | 46.61 | 1.615 | 41.02 | 1.450 | 36.83 | .250 | 6.35 | .310 | 7.87 | .195 | 4.95 | .429 | 10.90 | 1.450 | 36.83 | .270 | 6.86 |
| **67P** | 2.235 | 56.77 | 2.015 | 51.18 | 1.784 | 45.31 | .184 | 4.67 | .310 | 7.87 | .183 | 4.65 | .416 | 10.57 | 1.850 | 36.83 | .270 | 6.86 |
| **67S** | 2.235 | 56.77 | 2.015 | 51.18 | 1.850 | 46.99 | .250 | 6.35 | .310 | 7.87 | .195 | 4.95 | .429 | 10.90 | 1.850 | 36.83 | .270 | 6.86 |
| **69P** | 1.735 | 44.07 | 1.515 | 38.48 | 1.284 | 32.61 | .228 | 5.79 | .351 | 8.92 | .183 | 4.65 | .416 | 10.57 | 1.350 | 34.29 | .310 | 7.87 |
| **69S** | 1.735 | 44.07 | 1.515 | 38.48 | 1.350 | 34.29 | .296 | 7.52 | .351 | 8.92 | .195 | 4.95 | .429 | 10.90 | 1.350 | 34.29 | .310 | 7.87 |
| **100P** | 2.170 | 55.12 | 1.800 | 45.72 | 1.383 | 35.13 | .270 | 6.86 | .394 | 10.01 | .183 | 4.65 | .416 | 10.57 | 1.442 | 36.63 | .360 | 9.14 |
| **100S** | 2.170 | 55.12 | 1.800 | 45.72 | 1.451 | 36.86 | .333 | 8.46 | .394 | 10.01 | .195 | 4.95 | .429 | 10.90 | 1.442 | 36.63 | .360 | 9.14 |

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