



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

B



**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 Gauge (AWG)                         | Wire Type                                                                                                                                                                                              | Wire Color                                                                                                                                                                                                           | Total Length Inches                                                                                                         | Hardware                               |
|--------------------|------------------------------|----------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| MWDM               | <b>Aluminum Shell</b>        | 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 Vrms Type E M16878/4 (TFE) (replaced by M22759/11 for mil spec applications) | 1 – White<br>2 – Yellow<br>7 – Ten Color Repeating<br><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><br>7 – Ten Color Repeating | 18<br><br>Total Length In Inches. “18” Specifies 18 Inches<br><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 |
|                    | <b>Stainless Steel Shell</b> |                                                    |                                                                  |                                                                                                                               |                                          |                                                                                                                                                                                                        |                                                                                                                                                                                                                      |                                                                                                                             |                                        |
|                    | 3 – Passivated               |                                                    |                                                                  |                                                                                                                               |                                          |                                                                                                                                                                                                        |                                                                                                                                                                                                                      |                                                                                                                             |                                        |
| 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                                                              |
|-----------------------------------------------|---------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------|
|                                               |                                                         |                                                     |                                                                 |                                                      |                                                                  |                                                |                                                                |
| <b>Thru-Hole</b><br>Order Hardware Separately | <b>Jackpost</b><br>Removable<br>Includes Nut and Washer | <b>Jackscrew</b><br>Hex Head<br>Removable<br>E-ring | <b>Jackscrew</b><br>Hex Head<br>Removable<br>E-ring<br>Extended | <b>Jackscrew</b><br>Slot Head<br>Removable<br>E-ring | <b>Jackscrew</b><br>Slot Head<br>Removable<br>E-ring<br>Extended | <b>Jackscrew</b><br>Hex Head<br>Non- Removable | <b>Jackscrew</b><br>Slot Head<br>Non-<br>Removable<br>Extended |

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



Micro-D  
Harness

## 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 $\mu$ 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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