



Micro-D MWDM Back-To-Back Metal Shell Unshielded Cable Assembly

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 Cable Assembly

| Sample Part Number | MWDM | 2 | L- | 25 | GS- | 4 | K | 7- | 18 | B |
|---------------------------|---|---|--|----|-----|---|---|----|----|---|
| Series | MWDM Glenair Micro-D | | | | | | | | | |
| Shell Material and Finish | Aluminum Shell 1 - Cadmium 2 - Nickel 4 - Black Anodize 5 - Gold 6 - Chem Film | | Stainless Steel Shell 3 - Passivated | | | | | | | |
| Insulator Material | L - LCP or PPS LCP - 30% Glass-Filled Liquid Crystal Polymer PPS - 40% Glass Filled Polyphenylene Sulfide | | | | | | | | | |
| Contact Layout | 9, 15, 21, 25, 31, 37, 51, 51-2, 67, 69, 75, 100, 130 | | | | | | | | | |
| Connector Type | GP - Pin (Plug) Connector Both Ends GS - Socket (Receptacle) Connector Both Ends CS - Pin Connector to Socket Connector | | | | | | | | | |
| Wire Gage (AWG) | 4 - #24 6 - #26 8 - #28 0 - #30 (J wire type only) | | | | | | | | | |
| Wire Type | K - M22759/11 600 VRMS Fluoropolymer (TFE) | | J - M22759/33 600 VRMS Modified Cross- Linked Tefzel® (ETFE) | | | E - NEMA HP3-EB 600 VRMS Type E M16878/4 (TFE) | | | | |
| Wire Color | 1 - White 2 - Yellow 5 - Color-Coded Stripes Per MIL-STD-681 (up to 51 colors) 7 - Ten Color Repeating | | | | | | | | | |
| Wire Length Inches | 18 - Wire Length In Inches. "18" Specifies 18 Inches. (2" Min. for 2 row, 3" Min. for 3 row, 4" Min. for 4 row) | | | | | | | | | |
| Hardware | B, P, M, M1, S, S1, L, K, F, R, H | | | | | | | | | |

Table I: Mounting Hardware

| B | P | M | M1 | S | S1 | L | K | F | R | H |
|-----------|----------|--------------------|------------------------------|---------------------|-------------------------------|----------------------------------|--|--------------------------------------|-------------------------------------|-----------------|
| | | | | | | | | | | |
| Thru-Hole | Jackpost | Hex Head Jackscrew | Hex Head Jackscrew, Extended | Slot Head Jackscrew | Slot Head Jackscrew, Extended | Hex Head Jackscrew Non-Removable | Slot Head Jackscrew Non-Removable Extended | Float Mount For Front Panel Mounting | Float Mount For Rear Panel Mounting | Threaded Insert |

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Table II: Dimensions



B

| 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 |
| 75P | 2.080 | 52.8 | 1.705 | 43.3 | 1.384 | 35.2 | .228 | 5.8 | .351 | 8.9 | .183 | 4.65 | .416 | 10.6 | 1.440 | 36.6 | .310 | 7.87 |
| 75S | 2.080 | 52.8 | 1.705 | 43.3 | 1.450 | 36.8 | .296 | 7.5 | .351 | 8.9 | .195 | 4.95 | .429 | 10.9 | 1.440 | 36.6 | .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 |
| 130P | 2.520 | 64.00 | 2.160 | 54.86 | 1.735 | 44.07 | .270 | 6.86 | .394 | 10.01 | .183 | 4.65 | .416 | 10.57 | 1.780 | 45.21 | .360 | 9.14 |
| 130S | 2.520 | 64.00 | 2.160 | 54.86 | 1.795 | 45.60 | .333 | 8.46 | .394 | 10.01 | .195 | 4.95 | .429 | 10.90 | 1.780 | 45.21 | .360 | 9.14 |

| 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)/ Polyphenyl Sulfide(PPS) |
| 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 |