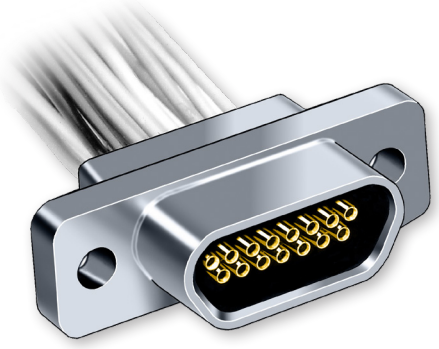
# Micro-D MWDM
# Insulated Wire Metal Shell Connectors



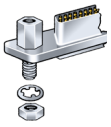
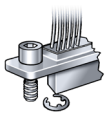
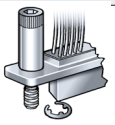
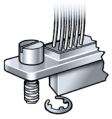
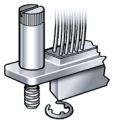
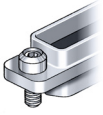
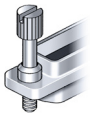
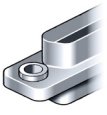
**Micro-D Insulated Wire Pigtails**–These connectors feature gold-plated TwistPin contacts and mil spec crimp termination. Specify nickel-plated shells or cadmium plated shells for best availability. 100% tested and backpotted, ready for use.

**Choose the Wire Type and Size To Fit Your Application**–If on-hand availability is most important, choose #26 AWG Type K mil spec fluoropolymer wire. Select M22759/33 Type J for space applications.

## How To Order Insulated Wire Connector

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

## 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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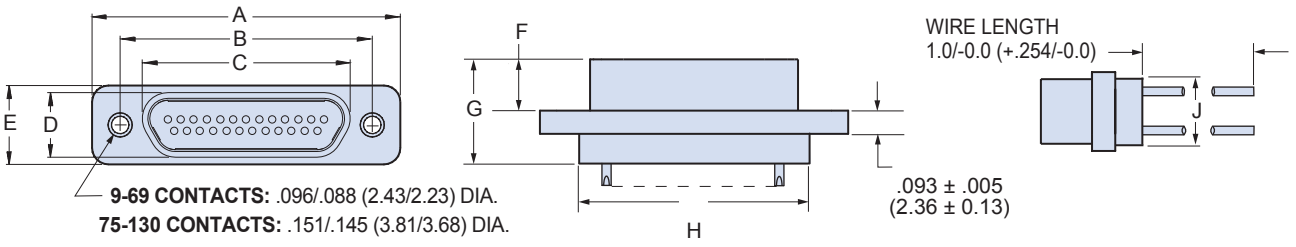
## Table II: Dimensions




| 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 | 46.99 | .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 | 46.99 | .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 | 5.79 | 0.351 | 8.92 | .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 | 7.52 | 0.351 | 8.92 | .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 | 2.150 | 54.61 | 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 | 2.150 | 54.61 | 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 |

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