

# MLDM Low Profile Metal Shell Micro-D Insulated Wire Termination



Micro-D Double and Triple Row



Low profile MLDM connectors have reduced flange height compared to standard MWDM Micro-D connectors. These .050" pitch Micro-D connectors are supplied with stranded mil spec hookup wire. Contacts are crimped to wire and potted with epoxy. Pin contacts are gold-plated high performance TwistPin type and are recessed into insulator to prevent damage. Socket contacts are gold plated, machined copper alloy. Machined aluminum shell. Glass-filled high temperature LCP thermoplastic insulators. M22759/11 standard wire, or M22959/33 lightweight, high strength space grade wire. Meets performance requirements of MIL-DTL-83513. Available with 9 to 51 contacts. 3 A., 600 Vac, -55°C to +150°C.

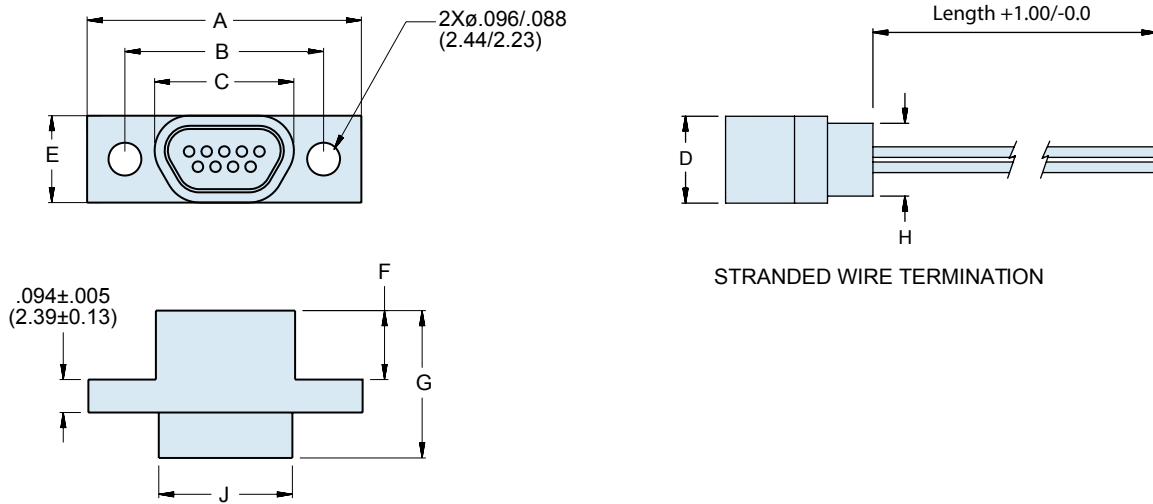
| How To Order Insulated Wire Connector   |   |   |  |   |   |
|---|---|---|--|---|---|
| <b>Sample Part Number</b>   | <b>MLDM2L -31 P -6 K 5 -18 M</b>  |   |  |   |   |
| <b>Series</b>   | <table border="0"> <tr> <td><b>MLDM1L</b><br/>Low Profile Metal Shell Micro-D With Yellow Chromate Over Cadmium Finish</td> <td><b>MLDM2L</b><br/>Low Profile Metal Shell Micro-D With Electroless Nickel Shell Finish</td> </tr> <tr> <td><b>MLDM32L</b><br/>Low Profile Metal Shell Micro-D With Black Zinc Nickel Shell Finish</td> <td><b>MLDM33L</b><br/>Low Profile Metal Shell Micro-D With Nickel-Fluorocarbon Shell Finish</td> </tr> </table> | <b>MLDM1L</b><br>Low Profile Metal Shell Micro-D With Yellow Chromate Over Cadmium Finish | <b>MLDM2L</b><br>Low Profile Metal Shell Micro-D With Electroless Nickel Shell Finish                                      | <b>MLDM32L</b><br>Low Profile Metal Shell Micro-D With Black Zinc Nickel Shell Finish | <b>MLDM33L</b><br>Low Profile Metal Shell Micro-D With Nickel-Fluorocarbon Shell Finish |
| <b>MLDM1L</b><br>Low Profile Metal Shell Micro-D With Yellow Chromate Over Cadmium Finish | <b>MLDM2L</b><br>Low Profile Metal Shell Micro-D With Electroless Nickel Shell Finish   |   |  |   |   |
| <b>MLDM32L</b><br>Low Profile Metal Shell Micro-D With Black Zinc Nickel Shell Finish     | <b>MLDM33L</b><br>Low Profile Metal Shell Micro-D With Nickel-Fluorocarbon Shell Finish   |   |  |   |   |
| <b>Contact Layout</b>   | <b>9, 15, 21, 25, 31, 37, 51, 51-2</b> (See Table II)   |   |  |   |   |
| <b>Contact Type</b>   | <b>P</b> - Pin <b>S</b> - Socket  |   |  |   |   |
| <b>Wire Gage (AWG)</b>  | <b>4</b> - #24 <b>6</b> - #26 <b>8</b> - #28 <b>0</b> - #30 (J wire type only)  |   |  |   |   |
| <b>Wire Type</b>  | <table border="0"> <tr> <td><b>K</b><br/>Standard Wire Extruded PTFE per M22759/11, Silver-Plated Conductors</td> <td><b>J</b><br/>Space Grade Wire High Strength, Lightweight, Crosslinked Modified ETFE per M22759/33, Silver-Plated Conductors</td> </tr> </table>   | <b>K</b><br>Standard Wire Extruded PTFE per M22759/11, Silver-Plated Conductors           | <b>J</b><br>Space Grade Wire High Strength, Lightweight, Crosslinked Modified ETFE per M22759/33, Silver-Plated Conductors |   |   |
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| <b>Wire color Code</b>  | <b>1</b> - White <b>5</b> - Color-Coded per MIL-STD-681<br><b>7</b> - 10 Color Repeat (Wires are solid color per MIL-STD-681 color code system.)  |   |  |   |   |
| <b>Wire Length</b>  | Wire Length In Inches<br>Example: <b>18</b> = 18 inches;  |   |  |   |   |
| <b>Mounting Hardware</b>  | <b>B, M, M1, S, S1, L, F, H, P, K, R</b>  |   |  |   |   |

| Table I: Mounting Hardware |                |                          |                                    |                           |                                     |  |  |                                      |                                     |                       |
|----------------------------|----------------|--------------------------|------------------------------------|---------------------------|-------------------------------------|--|--|--------------------------------------|-------------------------------------|-----------------------|
| B                          | P              | M                        | M1                                 | S                         | S1                                  | L                                      | K  | F                                    | R                                   | H                     |
|                            |                |                          |                                    |                           |                                     |  |  |                                      |                                     |                       |
| Thru-Hole                  | Jackpost #2-56 | Hex Head Jackscrew #2-56 | Hex Head Jackscrew, Extended #2-56 | Slot Head Jackscrew #2-56 | Slot Head Jackscrew, Extended #2-56 | Hex Head Jackscrew Non-Removable #2-56 | Slot Head Jackscrew Non-Removable Extended #2-56 | Float Mount For Front Panel Mounting | Float Mount For Rear Panel Mounting | Threaded Insert #2-56 |



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Table II: Dimensions



E

| Layout       | A Max. |       | B             |               | C Max. |       | D Max. |      | E Max. |      | F             |               | G Max. |      | H Max. |      | J Max. |       |
|--------------|--------|-------|---------------|---------------|--------|-------|--------|------|--------|------|---------------|---------------|--------|------|--------|------|--------|-------|
|              | In.    | mm.   | In.<br>± .003 | mm.<br>± 0.08 | In.    | mm.   | In.    | mm.  | In.    | mm.  | In.<br>± .003 | mm.<br>± 0.08 | In.    | mm.  | In.    | mm.  | In.    | mm.   |
| <b>9P</b>    | .788   | 20.02 | .565          | 14.35         | .292   | 7.42  | .134   | 3.40 | .218   | 5.54 | .199          | 5.05          | .390   | 9.91 | .175   | 4.45 | .405   | 10.29 |
| <b>9S</b>    | .788   | 20.02 | .565          | 14.35         | .380   | 9.65  | .218   | 5.54 | .218   | 5.54 | .180          | 4.57          | .377   | 9.58 | .175   | 4.45 | .405   | 10.29 |
| <b>15P</b>   | .938   | 23.83 | .715          | 18.16         | .442   | 11.23 | .134   | 3.40 | .218   | 5.54 | .199          | 5.05          | .390   | 9.91 | .175   | 4.45 | .555   | 14.10 |
| <b>15S</b>   | .938   | 23.83 | .715          | 18.16         | .530   | 13.46 | .218   | 5.54 | .218   | 5.54 | .180          | 4.57          | .377   | 9.58 | .175   | 4.45 | .555   | 14.10 |
| <b>21P</b>   | 1.088  | 27.64 | .865          | 21.97         | .592   | 15.04 | .134   | 3.40 | .218   | 5.54 | .199          | 5.05          | .390   | 9.91 | .175   | 4.45 | .705   | 17.91 |
| <b>21S</b>   | 1.080  | 27.64 | .865          | 21.97         | .680   | 17.27 | .218   | 5.54 | .218   | 5.54 | .180          | 4.57          | .377   | 9.58 | .175   | 4.45 | .705   | 17.91 |
| <b>25P</b>   | 1.188  | 30.18 | .965          | 24.51         | .692   | 17.58 | .134   | 3.40 | .218   | 5.54 | .199          | 5.05          | .390   | 9.91 | .175   | 4.45 | .805   | 20.45 |
| <b>25S</b>   | 1.185  | 30.18 | .965          | 24.51         | .780   | 19.81 | .218   | 5.54 | .218   | 5.54 | .180          | 4.57          | .377   | 9.58 | .175   | 4.45 | .805   | 20.45 |
| <b>31P</b>   | 1.338  | 33.99 | 1.115         | 28.32         | .842   | 21.39 | .134   | 3.40 | .218   | 5.54 | .199          | 5.05          | .390   | 9.91 | .175   | 4.45 | .955   | 24.26 |
| <b>31S</b>   | 1.338  | 33.99 | 1.115         | 28.32         | .930   | 23.62 | .218   | 5.54 | .218   | 5.54 | .180          | 4.57          | .377   | 9.58 | .175   | 4.45 | .955   | 24.26 |
| <b>37P</b>   | 1.488  | 37.80 | 1.265         | 32.13         | .992   | 25.20 | .134   | 3.40 | .218   | 5.54 | .199          | 5.05          | .390   | 9.91 | .175   | 4.45 | 1.105  | 28.07 |
| <b>37S</b>   | 1.488  | 37.80 | 1.265         | 32.13         | 1.080  | 27.43 | .218   | 5.54 | .218   | 5.54 | .180          | 4.57          | .377   | 9.58 | .175   | 4.45 | 1.105  | 28.07 |
| <b>51P</b>   | 1.438  | 36.53 | 1.215         | 30.86         | .942   | 23.93 | .177   | 4.50 | .260   | 6.60 | .199          | 5.05          | .390   | 9.91 | .220   | 5.59 | 1.058  | 26.87 |
| <b>51S</b>   | 1.438  | 36.53 | 1.215         | 30.86         | 1.030  | 26.16 | .260   | 6.60 | .260   | 6.60 | .180          | 4.57          | .377   | 9.58 | .220   | 5.59 | 1.058  | 26.87 |
| <b>51-2P</b> | 1.835  | 46.61 | 1.615         | 41.02         | 1.340  | 34.04 | .134   | 3.40 | .218   | 5.54 | .199          | 5.05          | .390   | 9.91 | .175   | 4.45 | 1.455  | 36.96 |
| <b>51-2S</b> | 1.835  | 46.61 | 1.615         | 41.02         | 1.425  | 36.20 | .218   | 5.54 | .218   | 5.54 | .180          | 4.57          | .377   | 9.58 | .175   | 4.45 | 1.455  | 36.96 |

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