

# MIL-DTL-83513/03 & /04 Micro-D Pre-Wired Crimp Terminated, Metal Shell Connector



Micro-D  
MIL-DTL-83513



## Micro-D Pre-Wired Pigtails

These connectors feature gold-plated TwistPin contacts and mil spec crimp termination. Specify aluminum shells for best availability. 100% tested and backpotted, ready for use.

## Choose the Wire Type To Fit Your Application

For lightest weight and smallest diameter, select M22759/33 space grade insulated wire.

### How To Order MIL-DTL- 83513 Pre-Wired Metal Shell Micro-D Connectors

|                           |   |   |   |           |          |
|---------------------------|---|---|---|-----------|----------|
| <b>Sample Part Number</b> | <b>M83513</b>   | <b>/04</b>  | <b>-B</b>   | <b>09</b> | <b>N</b> |
| <b>Base Part Number</b>   | <b>M83513</b>   |   |   |           |          |
| <b>Slash Number</b>       | <b>/03 Pin Connector (Plug)</b><br><b>/04 Socket Connector (Receptacle)</b>   |   |   |           |          |
| <b>Shell Size</b>         | <b>A, B, C, D, E, F, G, H</b> (See Table I)<br>Codes A - H specify the shell size.<br>The number of contacts is shown below for reference.<br><b>A - 9    B - 15    C - 21    D - 25    E - 31    F - 37    G - 51    H - 100</b>   |   |   |           |          |
| <b>Wire Type</b>          | <b>M22759/11-26 Teflon®-Insulated Hookup Wire</b><br><b>01</b> - 18 Inches (457mm), White<br><b>02</b> - 36 Inches (914mm), White<br><b>03</b> - 18 Inches (457mm), 10 Color Repeating<br><b>04</b> - 36 Inches (914mm), 10 Color Repeating<br><b>13</b> - 72 Inches (1829mm), White<br><b>14</b> - 72 Inches (1829mm), 10 Color Repeating<br><b>25 AWG Single Strand Uninsulated Wire</b><br><b>05</b> - .500 Inch (12.7mm), Gold Plated<br><b>06</b> - 1.000 Inch (25.4mm), Gold Plated<br><b>07</b> - .500 Inch (12.7mm), Tin-Lead Plated(2)<br><b>08</b> - 1.000 Inch (25.4mm), Tin-Lead Plated(2)<br><b>M22759/33-26 Irradiated Tefzel® Insulated Hookup Wire</b><br><b>09</b> - 18 Inches (457mm), White<br><b>10</b> - 36 Inches (914mm), White<br><b>11</b> - 18 Inches (457mm), 10 Color Repeating<br><b>12</b> - 36 Inches (914mm), 10 Color Repeating<br><b>15</b> - 72 Inches (1829mm), White<br><b>16</b> - 72 Inches (1829mm), 10 Color Repeating |   |   |           |          |
| <b>Shell Finish</b>       | <b>C</b> - Cadmium<br><b>A</b> - Electrodeposited Aluminum  | <b>N</b> - Electroless Nickel<br><b>K</b> - Zinc Nickel | <b>P</b> - Passivated SST<br><b>T</b> - Nickel Fluorocarbon Polymer |           |          |



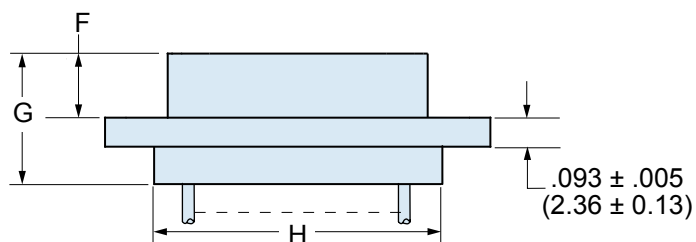
## Notes

1. Shell Material & Finish: Cadmium plating offers better corrosion resistance compared to nickel, but cad is not acceptable for space or RoHS applications. Electroless nickel plated aluminum is recommended for new design activity. Or, choose stainless steel shells for corrosive environments.
2. Tin-Plated Wire: Glenair M83513 connectors do not contain any components exceeding 97% tin.
3. M22759/33 Corrosion: The M83513 spec contains a cautionary note regarding M22759/33 wire. The wire insulation is known to cause corrosion to metal parts when stored in a sealed environment. This corrosion has been observed on M83513 connectors. Glenair has implemented a packaging procedure to minimize or eliminate this problem. Connectors are individually wrapped with teflon tape, and the unit pack is a perforated paper envelope. M22759/33 continues to be the preferred wire for space applications.



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Table I: 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 | .310   | 7.87  | .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 | .310   | 7.87  | .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 | .310   | 7.87  | .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 | .310   | 7.87  | .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 | .310   | 7.87  | .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 | .310   | 7.87  | .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 | .310   | 7.87  | .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 | .310   | 7.87  | .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 | .310   | 7.87  | .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 | .310   | 7.87  | .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 | .310   | 7.87  | .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 | .310   | 7.87  | .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 |
| 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 |