



MIL-DTL-83513/08 & /09 Micro-D Pre-Wired Crimp Terminated, Plastic Shell Connector



Micro-D Pre-Wired Pigtails

These connectors feature gold-plated TwistPin contacts and mil spec crimp termination. 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 Plastic Shell Micro-D Connectors

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

Application Notes

- Interchangeability: M83513 plastic shell connectors are not interchangeable with metal shell M83513 connectors.
- Tin-Plated Wire: Glenair M83513 connectors do not contain any components exceeding 97% tin.
- 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.

MIL-DTL-83513/08 & /09 Micro-D Pre-Wired Crimp Terminated, Plastic Shell Connector

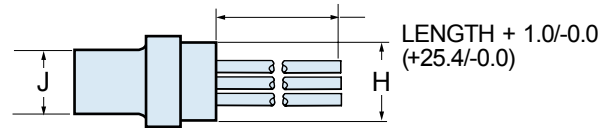


Micro-D
MIL-DTL-83513

Table I: Dimensions

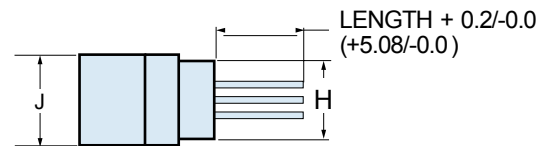


LENGTH FOR INSULATED STRANDED WIRE

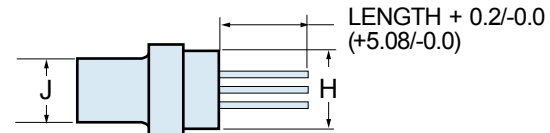


SOCKET CONNECTOR

LENGTH FOR UNINSULATED WIRE



SOCKET CONNECTOR



PIN CONNECTOR

| Layout | A Max. | | B | | C Max. | | D Max. | | E Max. | | F Max. | | G Max. | | H Max. | | J Max. | |
|--------|--------|-------|---------------|---------------|--------|-------|--------|------|--------|------|--------|-------|--------|-------|--------|------|--------|------|
| | In. | mm. | In. ± .003 | mm. ± 0.08 | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. |
| 9P | .788 | 20.02 | .565 | 14.35 | .292 | 7.42 | .218 | 5.54 | .202 | 5.13 | .395 | 10.03 | .408 | 10.36 | .173 | 4.39 | .134 | 3.40 |
| 9S | .788 | 20.02 | .565 | 14.35 | .380 | 9.65 | .218 | 5.54 | .185 | 4.70 | .375 | 9.53 | .408 | 10.36 | .173 | 4.39 | .218 | 5.54 |
| 15P | .938 | 23.83 | .715 | 18.16 | .442 | 11.23 | .218 | 5.54 | .202 | 5.13 | .395 | 10.03 | .558 | 14.17 | .173 | 4.39 | .134 | 3.40 |
| 15S | .938 | 23.83 | .715 | 18.16 | .530 | 13.46 | .218 | 5.54 | .185 | 4.70 | .375 | 9.53 | .558 | 14.17 | .173 | 4.39 | .218 | 5.54 |
| 21P | 1.088 | 27.64 | .865 | 21.97 | .592 | 15.04 | .218 | 5.54 | .202 | 5.13 | .395 | 10.03 | .708 | 17.98 | .173 | 4.39 | .134 | 3.40 |
| 21S | 1.080 | 27.64 | .865 | 21.97 | .680 | 17.27 | .218 | 5.54 | .185 | 4.70 | .375 | 9.53 | .708 | 17.98 | .173 | 4.39 | .218 | 5.54 |
| 25P | 1.188 | 30.18 | .965 | 24.51 | .692 | 17.58 | .218 | 5.54 | .202 | 5.13 | .395 | 10.03 | .808 | 20.52 | .173 | 4.39 | .134 | 3.40 |
| 25S | 1.185 | 30.18 | .965 | 24.51 | .780 | 19.81 | .218 | 5.54 | .185 | 4.70 | .375 | 9.53 | .808 | 20.52 | .173 | 4.39 | .218 | 5.54 |
| 31P | 1.338 | 33.99 | 1.115 | 28.32 | .842 | 21.39 | .218 | 5.54 | .202 | 5.13 | .395 | 10.03 | .958 | 24.33 | .173 | 4.39 | .134 | 3.40 |
| 31S | 1.338 | 33.99 | 1.115 | 28.32 | .930 | 23.62 | .218 | 5.54 | .185 | 4.70 | .375 | 9.53 | .958 | 24.33 | .173 | 4.39 | .218 | 5.54 |
| 37P | 1.488 | 37.80 | 1.265 | 32.13 | .992 | 25.20 | .218 | 5.54 | .202 | 5.13 | .395 | 10.03 | 1.108 | 28.14 | .173 | 4.39 | .134 | 3.40 |
| 37S | 1.488 | 37.80 | 1.265 | 32.13 | 1.080 | 27.43 | .218 | 5.54 | .185 | 4.70 | .375 | 9.53 | 1.108 | 28.14 | .173 | 4.39 | .218 | 5.54 |
| 51P | 1.438 | 36.53 | 1.215 | 30.86 | .942 | 23.93 | .260 | 6.60 | .202 | 5.13 | .395 | 10.03 | 1.058 | 26.87 | .220 | 5.59 | .177 | 4.50 |
| 51S | 1.438 | 36.53 | 1.215 | 30.86 | 1.030 | 26.16 | .260 | 6.60 | .185 | 4.70 | .375 | 9.53 | 1.058 | 26.87 | .220 | 5.59 | .260 | 6.60 |