

MWDL Low Profile Plastic Shell Micro-D Solid Wire Termination



Micro-D Double
and Triple Row



MWDL connectors are supplied with solid copper 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. Glass-filled high temperature LCP thermoplastic connector body. Choose gold-plated wire or pre-tinned with Sn60/Pb40 tin-lead solder. Meets performance requirements of MIL-DTL-83513, Class P. Available with 9 to 51 contacts. 3 A., 600 Vac, -55°C to +150°C.

How To Order Solid Wire Connector

| Sample Part Number | MWDL | -31 | S | -4 | C | 4 | -.250 | B |
|----------------------|--|-----|---|----|---|---|-------|---|
| Series | MWDL - Low Profile Plastic Shell Micro-D | | | | | | | |
| Contact Layout | 9, 15, 21, 25, 31, 37, 51, | | | | | | | |
| Contact Type | P - Pin Contacts S - Socket Contacts | | | | | | | |
| Wire Gage (AWG) | 4 - #24 5 - #25 6 - #26 | | | | | | | |
| Wire Type | C - Solid Copper | | | | | | | |
| Wire Finish | 3 - Solder Dipped (Sn60/Pb40) 4 - Gold-plated | | | | | | | |
| Wire Length (Inches) | .125, .250, .500, 1.000, 1.500, 2.000 Wire Length In Inches | | | | | | | |
| Mounting Hardware | B, M, M1, S, S1, P, See Table I | | | | | | | |

E

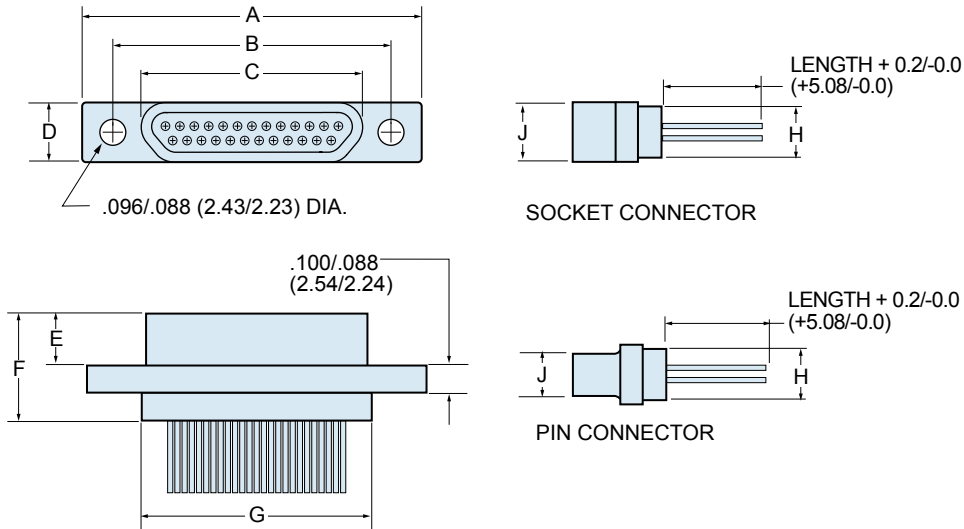
Table I: Mounting Hardware

| B | P | M | M1 | S | S1 |
|-----------|----------------|--------------------------|------------------------------------|---------------------------|-------------------------------------|
| | | | | | |
| 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 |



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Table II: Dimensions



| 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 | 5.64 |
| 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 | 5.64 |
| 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 | 5.64 |
| 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 | 5.64 |
| 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 | 5.64 |
| 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 |

| Performance Specifications | |
|----------------------------|-------------------------------|
| Current Rating | 3 AMP |
| DWV | 600 VAC Sea level |
| Insulation Resistance | 5000 Megohms Minimum |
| Contact Resistance | 8 Milliohms Maximum |
| Operating Temperature | -55° C. to +150° C. |
| Shock, Vibration | 50 g., 20g. |
| Mating Force | (10 Ounces) X (# of Contacts) |

| Materials and Finishes | |
|------------------------|--|
| Connector Body | Liquid Crystal Polymer (LCP), Glass-filled |
| Pin Contact | Beryllium Copper, Gold over Nickel Plating |
| Socket Contact | Copper Alloy, Gold Over Nickel Plating |
| Hardware | 300 Series Stainless Steel |
| Encapsulant | Epoxy |

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