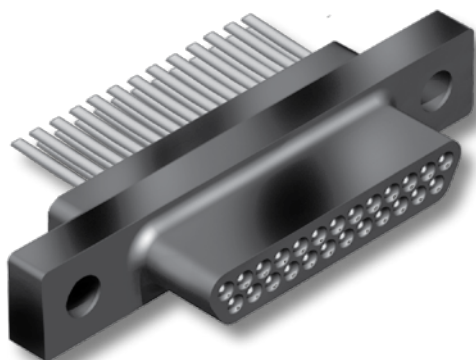


## Micro-D Plastic Shell Uninsulated Wire Pigtails



**Solder-Dipped or Gold Plated Wire** – These connectors feature TwistPin contacts and mil spec crimp termination to solid copper wire. High temperature liquid crystal polymer (LCP) housings are 30% glass-filled.

**Choose Gold Plated or Solder Dipped Wire** in #24 AWG (.020 inch diameter), #25 AWG (.018 inch diameter) or #26 AWG (.016 inch diameter).

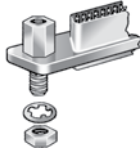
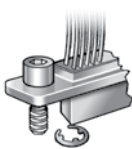
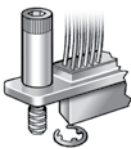
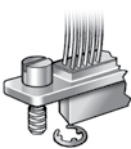
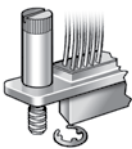
**MWD Plastic Micro-D's** are non-environmental and are smaller and lighter weight than metal shell versions.

### HOW TO ORDER MWD PLASTIC UNINSULATED WIRE PIGTAILS

| Series                                                                  | Contact Layout | Contact Type                        | Wire Gage (AWG)                                    | Wire Type                        | Wire Finish                            | Wire Length Inches | Hardware  |
|-------------------------------------------------------------------------|----------------|-------------------------------------|----------------------------------------------------|----------------------------------|----------------------------------------|--------------------|-----------|
| <b>MWDL</b><br>MWD Series<br>("L" designates LCP thermoplastic housing) | <b>9</b>       | <b>P</b> – Pin<br><b>S</b> – Socket | <b>4</b> – #24<br><b>5</b> – #25<br><b>6</b> – #26 | <b>C</b><br>Single Strand Copper | <b>3</b><br>Solder Dipped (63/37 SnPb) | <b>.125</b>        | <b>B</b>  |
|                                                                         | <b>15</b>      |                                     |                                                    |                                  |                                        | <b>.250</b>        | <b>P</b>  |
|                                                                         | <b>21</b>      |                                     |                                                    |                                  |                                        | <b>.375</b>        | <b>M</b>  |
|                                                                         | <b>25</b>      |                                     |                                                    |                                  | <b>4</b><br>Gold-Plated                | <b>.500</b>        | <b>M1</b> |
|                                                                         | <b>31</b>      |                                     |                                                    |                                  |                                        | <b>.750</b>        | <b>S</b>  |
|                                                                         | <b>37</b>      |                                     |                                                    |                                  |                                        | <b>1.000</b>       | <b>S1</b> |
|                                                                         | <b>51</b>      |                                     |                                                    |                                  |                                        | <b>2.000</b>       |           |
| Wire Length In Inches. ".500" Specifies Half Inch.                      |                |                                     |                                                    |                                  |                                        |                    |           |
| <b>Sample Part Number</b>                                               |                |                                     |                                                    |                                  |                                        |                    |           |
| <b>MWDL</b>                                                             | <b>– 31</b>    | <b>P</b>                            | <b>– 5</b>                                         | <b>C</b>                         | <b>4</b>                               | <b>– .250</b>      | <b>B</b>  |

## K

### MICRO-D MOUNTING HARDWARE

| <b>B</b>                                                                            | <b>P</b>                                                                            | <b>M</b>                                                                            | <b>M1</b>                                                                           | <b>S</b>                                                                              | <b>S1</b>                                                                             |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |  |
| <b>Thru-Hole</b><br>Order Hardware Separately                                       | <b>Jackpost</b><br>Removable<br>Includes Nut and Washer                             | <b>Jackscrew</b><br>Hex Head<br>Removable<br>E-ring                                 | <b>Jackscrew</b><br>Hex Head<br>Removable<br>E-ring<br>Extended                     | <b>Jackscrew</b><br>Slot Head<br>Removable<br>E-ring                                  | <b>Jackscrew</b><br>Slot Head<br>Removable<br>E-ring<br>Extended                      |

# Micro-D Plastic Shell Uninsulated Wire Pigtails

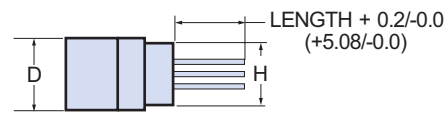
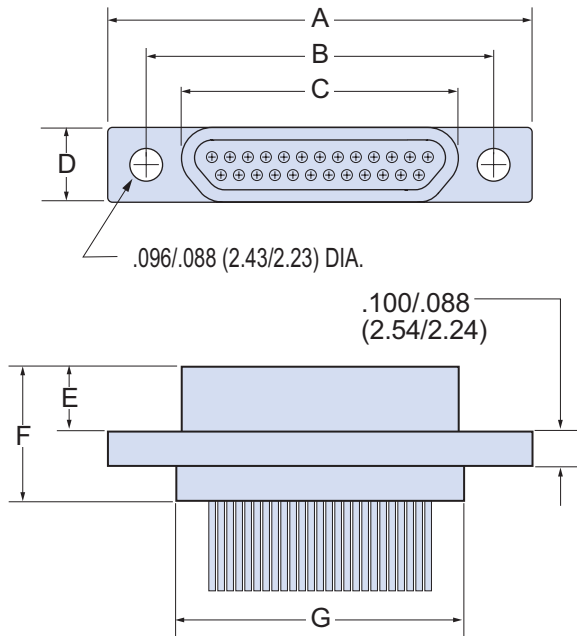


## PERFORMANCE SPECIFICATIONS

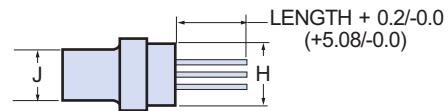
|                       |                               |
|-----------------------|-------------------------------|
| Current Rating        | 3 AMP                         |
| DWV                   | 600 VAC Sea level             |
| Insulation Resistance | 5000 Megohms Minimum          |
| Contact Resistance    | 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 Shell  | Liquid Crystal Polymer (LCP)              |
| Insulator        | Liquid Crystal Polymer (LCP)              |
| Interfacial Seal | Flourosilicone 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                  |



SOCKET CONNECTOR



PIN CONNECTOR

## MICRO-D PLASTIC SHELL UNINSULATED WIRE PIGTAIL 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     | .785   | 19.94 | .565       | 14.35      | .292   | 7.42  | .218   | 5.54 | .202   | 5.13 | .395   | 10.03 | .408   | 10.36 | .173   | 4.39 | .139   | 3.53 |
| 9S     | .785   | 19.94 | .565       | 14.35      | .380   | 9.65  | .218   | 5.54 | .185   | 4.70 | .375   | 9.53  | .408   | 10.36 | .173   | 4.39 |        |      |
| 15P    | .935   | 23.75 | .715       | 18.16      | .442   | 11.23 | .218   | 5.54 | .202   | 5.13 | .395   | 10.03 | .558   | 14.17 | .173   | 4.39 | .139   | 3.53 |
| 15S    | .935   | 23.75 | .715       | 18.16      | .530   | 13.46 | .218   | 5.54 | .185   | 4.70 | .375   | 9.53  | .558   | 14.17 | .173   | 4.39 |        |      |
| 21P    | 1.080  | 27.43 | .865       | 21.97      | .592   | 15.04 | .218   | 5.54 | .202   | 5.13 | .395   | 10.03 | .708   | 17.98 | .173   | 4.39 | .139   | 3.53 |
| 21S    | 1.080  | 27.43 | .865       | 21.97      | .680   | 17.27 | .218   | 5.54 | .185   | 4.70 | .375   | 9.53  | .708   | 17.98 | .173   | 4.39 |        |      |
| 25P    | 1.185  | 30.01 | .965       | 24.51      | .692   | 17.58 | .218   | 5.54 | .202   | 5.13 | .395   | 10.03 | .808   | 20.52 | .173   | 4.39 | .139   | 3.53 |
| 25S    | 1.185  | 30.01 | .965       | 24.51      | .780   | 19.81 | .218   | 5.54 | .185   | 4.70 | .375   | 9.53  | .808   | 20.52 | .173   | 4.39 |        |      |
| 31P    | 1.335  | 33.91 | 1.115      | 28.32      | .842   | 21.39 | .218   | 5.54 | .202   | 5.13 | .395   | 10.03 | .958   | 24.33 | .173   | 4.39 | .139   | 3.53 |
| 31S    | 1.335  | 33.91 | 1.115      | 28.32      | .930   | 23.62 | .218   | 5.54 | .185   | 4.70 | .375   | 9.53  | .958   | 24.33 | .173   | 4.39 |        |      |
| 37P    | 1.485  | 37.72 | 1.265      | 32.13      | .992   | 25.20 | .218   | 5.54 | .202   | 5.13 | .395   | 10.03 | 1.108  | 28.14 | .173   | 4.39 | .139   | 3.53 |
| 37S    | 1.485  | 37.72 | 1.265      | 32.13      | 1.080  | 27.43 | .218   | 5.54 | .185   | 4.70 | .375   | 9.53  | 1.108  | 28.14 | .173   | 4.39 |        |      |
| 51P    | 1.435  | 36.45 | 1.215      | 30.86      | .942   | 23.93 | .260   | 6.60 | .202   | 5.13 | .395   | 10.03 | 1.058  | 26.87 | .220   | 5.59 | .182   | 4.62 |
| 51S    | 1.435  | 36.45 | 1.215      | 30.86      | 1.030  | 26.16 | .260   | 6.60 | .185   | 4.70 | .375   | 9.53  | 1.058  | 26.87 | .220   | 5.59 |        |      |