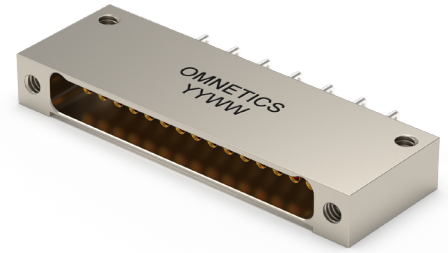


SINGLE ROW MICRO-D THRU-HOLE HORIZONTAL (TYPE H2)

Omnetics' **Single Row Micro-D Thru-Hole Horizontal connectors** are a very slim interconnect for small and low-profile system designs. Our thru-hole connector serves high-reliability applications for the military, aerospace, oil and gas, and medical industries. Omnetics' integrated Flex Pin design helps small devices absorb shock and vibration without loss of integrity in rugged field conditions. Our connectors meet or exceed the demanding requirements of MIL-DTL-83513. They can endure more than 2,000 mating cycles in operating conditions that include temperate extremes ranging from -55° to 200°C. Available in a range of shell, plating, and pin options to meet an extensive range of systems.



Electro-Mechanical Specifications

| TYPE | PERFORMANCE |
|---------------------------|---|
| Durability | > 2000 Mating Cycles min |
| Temperature | -55°C to +125°C (200 °C w/HTE) |
| Current rating | 3 Amps per contact per MIL-DTL-83513 |
| Voltage Rating (DWV) | 600 VAC RMS Sea Level |
| Insulation Resistance | 5,000 Megohms @ 500 VDC |
| Shock | 50 g's with no discontinuities > 1 microsecond |
| Vibration | 20 g's with no discontinuities > 1 microsecond |
| Thermal Vacuum Outgassing | 1.0% max TML, 0.03% max CVCM - NASA SP-R-0022 |
| Contact Resistance | 26 milliohms (65 mV) max @ 2.5 Amps per MIL-DTL-83513 |
| Mating/Unmating Force | 3 oz. (.85g) typical per contact |

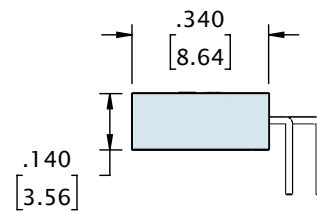
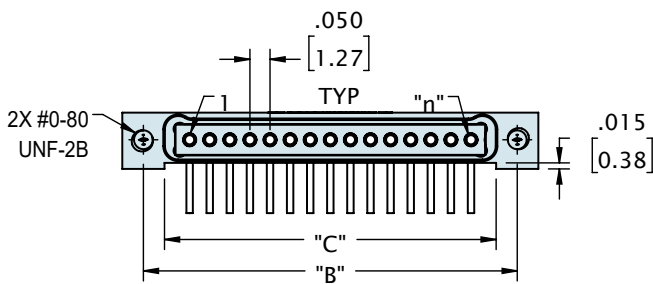
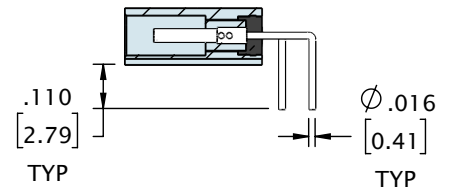
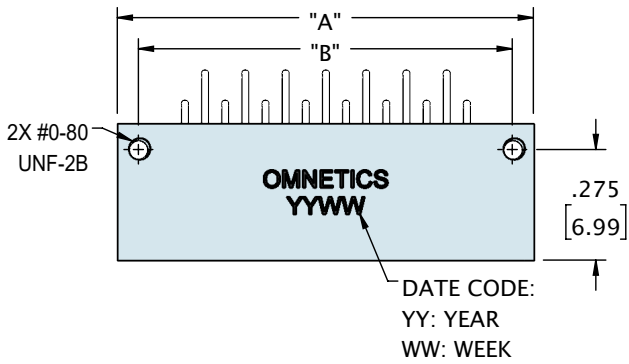
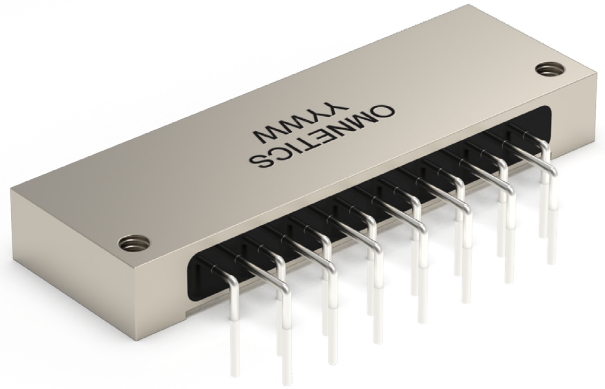
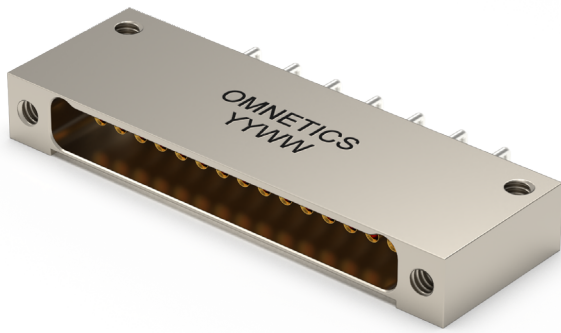
Material Specifications

| TYPE | PERFORMANCE |
|------------------|--|
| Contact | Copper Alloy Per MIL-DTL-83513 |
| Contact Finish | Gold per ASTM B488, Type II, Class 1.27, Code C Over Nickel Underplate |
| Insulator | Thermoplastic per MIL-M-24519 |
| Interfacial Seal | Silicone Elastomer per A-A-59588 |
| Hardware | Stainless Steel, 300 Series, Passivated per SAE AMS-2700 |

Shell Options

| MATERIAL | FINISH |
|-----------------------------|-------------------------------------|
| Aluminum 6061 | Electroless Nickel per SAE-AMS-2404 |
| Stainless Steel, 300 Series | Passivated per SAE-AMS-2700 |

SINGLE ROW MICRO-D THRU-HOLE HORIZONTAL (TYPE H2)

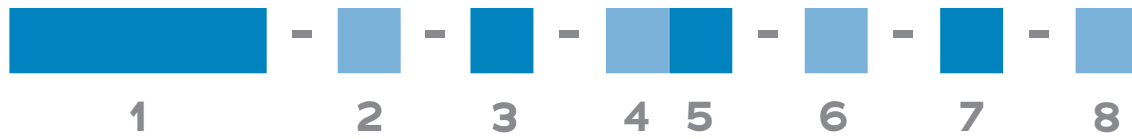


| CONTACTS | ROWS | "A" | "B" | "C" |
|----------|------|---------------|---------------|---------------|
| 4 | 1 | .485 [12.32] | .380 [9.65] | .275 [6.99] |
| 9 | 1 | .735 [18.67] | .630 [16.00] | .525 [13.34] |
| 15 | 1 | 1.035 [26.29] | .930 [23.62] | .825 [20.96] |
| 21 | 1 | 1.335 [33.91] | 1.230 [31.24] | 1.125 [28.58] |
| 25 | 1 | 1.535 [38.99] | 1.430 [36.32] | 1.325 [33.66] |
| 31 | 1 | 1.835 [46.61] | 1.730 [43.94] | 1.625 [41.28] |
| 37 | 1 | 2.135 [54.23] | 2.030 [51.56] | 1.925 [48.90] |

DIMENSIONS IN [] ARE IN MILLIMETERS AND ARE FOR REFERENCE ONLY

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ORDERING GUIDE



| | | | | | | | |
|--------------------------------------|---|-----------------|----------------|-------------------------------------|-----------------|----|----------|
| 1 Series | MMSS Metal Micro-D Single Row Socket | | | | | | |
| 2 Number of Contacts | O4 | O9 | 15 | 21 | 25 | 31 | 37 |
| 3 Termination Type | H2 Thru-Hole Horizontal | | | | | | |
| 4 Wire AWG | 4 24 AWG | | 6 26 AWG (STD) | | 8 28 AWG | | 0 30 AWG |
| 5 Wire Type | Q Nema HP3 (STD) | | R M22759/11 | | S M22759/33 | | X Other |
| 6 Wire Length | 18.0 18.00 (STD) | | | XX.X Custom length | | | |
| 7 Color Scheme | 1 10 Repeating | | 2 Blue | 3 White | 4 Non Repeating | | 5 Yellow |
| 8 Shell Material & Finish | N Aluminum Shell, Electroless Nickel Plated | | | CD Aluminium Shell, Cadmium Plated | | | |
| | B Aluminium Shell, Black Anodized | | | P Stainless Steel Shell, Passivated | | | |
| 9 Hardware | EJS End Jack Screw (MMSP only) | | | ETH End Threaded Hole (MMSS only) | | | |
| 10 Common Options | HT High Temp Epoxy | | | RH RoHS Compliant | | | |
| 11 Shield / Jacket | D Slip On Metal Braid | E Machine Braid | | F Flexo Braid | | | |
| | J Nomex Braid | ST Shrink Tube | | | | | |
| 12 Mod Codes | M10 Keyed | | | M30 Ground Spring | | | |
| | M50 Space Grade Micro-D, SPT1 | | | M53 Space Grade Micro-D, SPT2 | | | |
| 13 Special Instructions | YYY Describe anything that is not covered in standard options | | | | | | |