

When failure is not an option.

Mini Circular Connectors

Miniature D Series Connector for Medical Applications



Actual Size

*Nearly 30% Smaller than
Our D01 Connectors*

*0.30mm Hypertac® High
Reliability Contacts*

*Simple Push-Button
Latching*

*Distinctive Housing
Provides Alignment
and Polarization*

*Available with Custom
Overmolding and
Cable Assemblies*

Small Connector, High Reliability

With significant industry trends toward product miniaturization and product integration, manufacturers continue to create more sophisticated products with higher levels of data acquisition and signal processing.

Hypertronics new “mini” connector is designed to be both rugged and versatile in order to meet the increased functionality requirements for today’s more advanced systems.

The next generation miniature connector is designed to reduce size by nearly 30 percent while providing maximum signal reliability. The mini connector is a product extension of the popular push-button D Series circular connector line.

The D00 mini connector incorporates ultrareliable Hypertac hyperboloid contacts with $\varnothing 0.30\text{mm}$ pins which create a significantly smaller form factor with five-signal contacts rated at 1 Amp each. The design maintains the all same reliable electromechanical performance

characteristics of all Hypertac contacts: high cycle life, low contact resistance, low insertion and extraction force, resistance to shock and vibration, and superior self-cleaning action, but now meet the industry’s increased demands for miniaturization and higher density.

The easy-to-assemble mini D Series incorporates the familiar push-button latch for simple operation with alignment and polarization provided by the distinctive housing design. Crimp / solder terminations accommodate up to 24 AWG wire. The receptacle has 6-inch [15.24mm] pigtails and is available with optional custom lengths and board terminations.

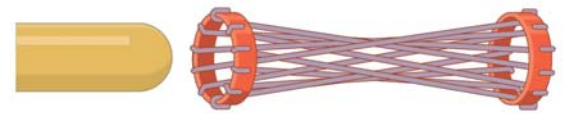
The mini D Series connector is ideal for use in medical equipment such as monitors, therapeutic devices, imaging applications, and invasive probes. With medical systems becoming smaller, Hypertronics mini connectors allow manufacturers to create smaller devices that offer more comfort and portability for patients.

Mini Circular Connectors

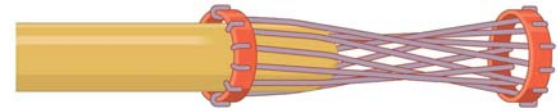
Hypertac® Contact System

Features

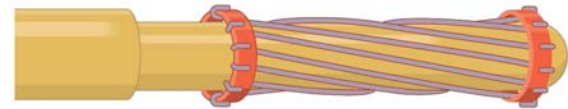
- Hypertac high reliability contacts
- 1 Amp rating per contact
- High cycle life
- Self-cleaning contacts
- Low mating forces
- Simple, easy to use latching mechanisms
- Available with custom overmolding and cable assemblies
- Crimp / solder contact terminations
- Value Add Option: Receptacles with 6-inch wire leads



Wire sleeve before insertion of pin



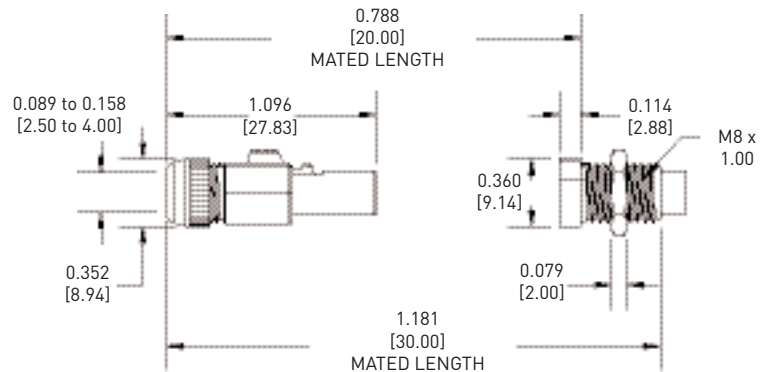
Pin partially inserted into sleeve



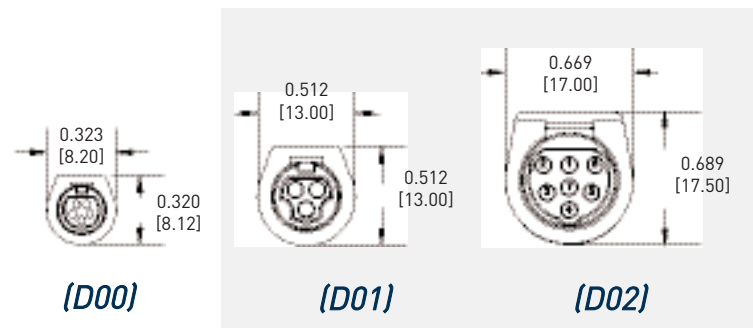
Pin completely inserted into sleeve

| D Series Mini (D00) - General Specifications | |
|----------------------------------------------|--------------------------------------------------------------------------------------------------|
| Contact Diameter | 0.30mm |
| Current Rating | 1 Amp per contact |
| Contact Resistance | 6.7 milliohms |
| Contact Extraction Force | 0.35 to 1.6 oz. per contact |
| Contact Life Cycles | Up to 100,000 |
| Breakdown Voltage Between Contacts | > 1000V |
| Dielectric Withstanding Voltage | > 750V |
| Contact Materials and Plating | Sockets: Beryllium copper wire and brass body; Gold over nickel Pins: Brass; gold over nickel |
| Insulation Resistance | > 103 megohms at 500 VDC |
| Temperature Rating Polyetherimide | -40° C to 125° C |

"Mini" D Series (D00)



D Series Mating Face Comparison



Ordering Information:

| | |
|----------------------------|-----------------|
| Plug: | D00PB503MRUTH |
| Receptacle: | D00EEB503FRUTAH |
| Receptacle w/ 6" pigtails: | D00EEB-0001 |



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