

Shielded HyperGrip®

Meets Demanding Medical Industry Requirements



Customer Keyable

Color Coding with Choice of 5 Colors

Meets Medical Industry Requirements

Hypertac® Contact Technology

Available with Custom Cable Assemblies

HyperGrip Shielded High Reliability Medical Connectors

As more sophisticated digital medical equipment enters the market, and data transfer rates continuously increase, the use of shielded connectors will be required to protect medical device circuitry from harmful electromagnetic (EMI) and radio frequency interference (RFI).

Hypertronics' Shielded HyperGrip® circular connectors are a stylish alternative designed to eliminate reliability issues commonly associated with commodity-type connector solutions. The connectors provide shielding up to 3 GHz with an attenuation of 50dB. The shielding feature provides EMI/RFI protection from the shielded cable through to the device. Shielded HyperGrip plug connectors offer a minimum of 15,000 mating cycles and have a current carrying capacity of one amp per contact. They are also shock and vibration resistant and are self cleaning.

Hypertronics Shielded HyperGrip connectors have a greater mating life cycle and provide superior performance capabilities than standard interconnect solutions. Ownership costs are drastically reduced by eliminating the need for warranty repairs and/or replacements of cable interconnects within 15,000 cycles.

The HyperGrip offers unparalleled performance of the Hypertac® contact technology, known for providing high cycle life, low contact resistance, low insertion force, reliability under extreme conditions, maximum contact performance, and excellent wiping action. HyperGrip is ideal for a variety of critical applications including portable ultrasound devices, digital X-Ray sensors, patient monitors, a variety of therapeutic devices and integrated imaging systems, where dependability is critical.

Shielded HyperGrip®

High Reliability Medical Connectors

Features and Benefits

- Shielding-EMI/RFI protection
- Push/Pull latching design – simple, one hand quick disconnect
- Customer keyable – easily keyed in one of the six different standard keying positions to prevent mismatching, which could result in catastrophic consequences
- Aesthetic design – softly shaped and easy to clean
- Color coding – available in 5 colors to provide visual indication for efficient mating
- Integrated strain relief available– prevents cable wire fatigue due to bending
- Front or rear panel mount receptacle design – option to mount the harness assembly from inside or outside the device enclosure
- Recessed contact tails – protect wire terminations
- Fingerproof

Materials:

- High-end engineering plastic components
 - Flammability rated to UL94V-0 on thermoplastic components
 - High temperature – rated to 185° C

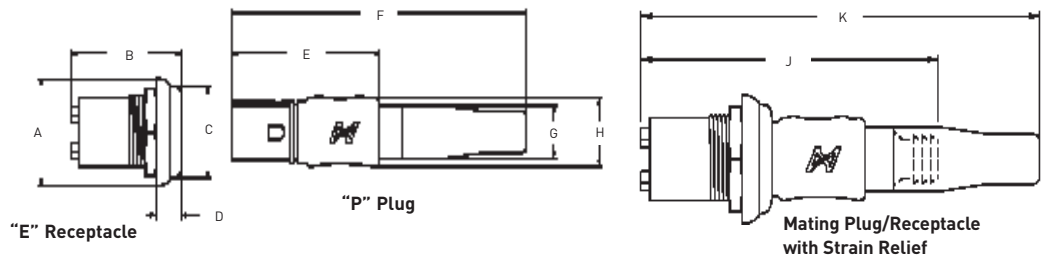
Contacts:

- Hypertac contacts – up to 100,000 mating cycles
- Crimp and solder cup contact terminations

	HG3
A	Ø1.172 (29.77)
B	1.137 (28.87)
C	Ø1.007 (25.59)
D	.272 (6.91)
E	1.637 (41.59)
F	3.500 (88.88)
G	Ø.650 (16.50)
H	Ø.800 (20.36)
J	2.890 (73.47)
K	3.880 (98.45)

*Dimensions in inches (mm)

Shielded Connectors – General Specifications	
Shielding Effectiveness	Up to 3Ghz
Attenuation	50 dB maximum @ 36 hz
Contact Resistance	8 milliohms
Extraction Force (Contact)	45 grams (1.6oz) per contact max.
Current Rating	1 Amp per contact
Connector Mating Cycles	Up To 20,000 (contacts to 100,000)
Operating Temperature	-40° C to 125° C
Contact Material – Pin – Finish	Phosphor bronze Gold over nickel plate
Contact Material – Socket – Finish	Brass body components Beryllium copper wires Body components/wires Gold over nickel



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