

ClearImage™ Series

Hypertronics ClearImage product line features non-magnetic contacts designed specifically for interconnections in imaging systems, beds, coils and other associated accessories. These contacts are non-magnetic versions of the highly reliable Hypertac hyperboloid contact technology.

All of products in Hypertronics ClearImage series are free of any material that could potentially distort magnetic flux. ClearImage products include offerings for power, signal and coax – each meeting or exceeding the magnetic permeability requirements for MRI usage. These non-magnetic contacts feature a self-cleaning wiping action, high cycle life, low mating force and are impervious to contact fretting caused by the vibration of imaging equipment.

Hypertronics offers ClearImage non-magnetic contacts in various combinations of kits to fully accommodate development projects and production orders. Many ClearImage kits are available with quick-turn delivery.

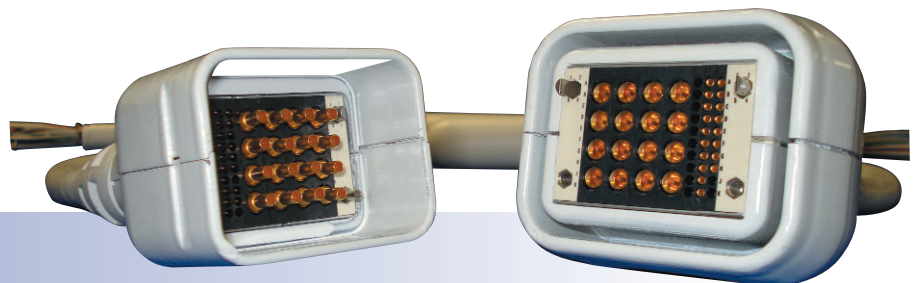
ClearImage cable assemblies come preloaded with non-magnetic contacts and are available in four different channel designs. Many ClearImage cables are available with quick-turn delivery.

Tools and accessories are also available.



ClearImage Contacts - General Specifications

- Magnetic Permeability: $\pm 30 \times 10^{-5} \mu$, Max. differential
- Current Rating: 4 to 50 Amps per contact
- Contact Resistance: Up to < 8 milliohms
- Extraction Force: Pin and Socket - 0.5 to 32.0 oz.; Coax - 3.0 to 160.0 oz.
- Impedance (Coax Only): 50 ohms
- Contact Life Cycles: Up to 25,000 Cycles
- Temperature Rating: -55° C to 125° C
- Contact Material: (Coax, Pins and Sockets) Non-magnetic brass, beryllium copper, phosphor bronze
- Plating: Gold over copper flash over base metal



Features and Benefits

- Non-Magnetic Hypertac High Reliability Contacts
- Magnet permeability to $\pm 30 \times 10^{-5} \mu$
- High cycle life
- Self-cleaning wiping action
- Low mating forces
- Immunity to contact fretting caused by vibration
- One-stop shopping for R&D and production

ClearImage Series Ordering Information

Contact Kits

- CLR-CKIT0001*: Coax and DC Kit - (32) 3.15mm coax, (60) 0.6mm pins and sockets
- CLR-CKIT0002*: Coax and DC Kit - (64) 3.15mm coax, (120) 0.6mm pins and sockets
- CLR-CKIT0003*: Power DC and Coax Kit - (32) 3.5mm pins and sockets, (32) 3.15mm coax
- CLR-CKIT0004*: Power DC and Coax Kit - (32) 3.5mm pins and sockets, (32) 3.15mm coax, (32) 0.6mm pins and sockets
- CLR-CKIT0005: Power Coax and DC Kit - (6) 8.6mm power coax, (32) 3.15mm coax, (60) 0.6mm pins and sockets
- CLR-CKIT0006: Power Coax and DC Kit - (12) 8.6mm power coax, (64) 3.15mm coax, (120) 0.6mm pins and sockets

Cable Assemblies

- CLR-RC0001: 4 Channel Cable Assembly - 4 Channel 12 DC
- CLR-RC0002*: 8 Channel Cable Assembly - 8 Channel 32 DC
- CLR-RC0003*: 16 Channel Cable Assembly - 16 Channel 17 DC
- CLR-RC0004: 32 Channel Cable Assembly - 32 Channel 34 DC

Accessories

- CLR-PLUGKIT0001*: Plug Handle and insulator kit for cable assemblies
- CLR-RECKIT0001*: Receptacle housing and insulator for cable assemblies
- CLR-SR0001: Slide/glue on 4 channel strain relief for 4 channel cable assembly
- CLR-SR0002*: Slide/glue on 8 channel strain relief for 8 channel cable assembly
- CLR-SR0003*: Slide/glue on 16 channel strain relief for 16 channel cable assembly
- CLR-SR0004: Slide/glue on 32 channel strain relief for 32 channel cable assembly

* Indicates that product is available with quick-turn delivery.