Hypertac® Hyperboloid Technology

Smiths Interconnect offers an extensive range of superior contact technologies suitable for standard and custom solutions. Hypertac® (HYPERboloid conTACt) is the original superior performing hyperboloid contact technology designed for use in all applications and in harsh and demanding environments where high reliability and safety are critical. The inherent electrical and mechanical characteristics of the Hypertac hyperboloid contact ensures unrivalled performance in terms of reliability, number of mating cycles, low contact force and minimal contact resistance. The shape of the contact sleeve is formed by hyperbolically arranged contact wires, which align themselves elastically as contact lines around the pin, providing a number of linear contact paths.

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low insertion/extraction forces</td>
<td>High density interconnect systems</td>
</tr>
<tr>
<td>The angle of the socket wires allows tight control of the pin insertion and extraction forces. The spring wires are smoothly deflected to make line contact with the pin.</td>
<td>Significant reductions in size and weight of sub-system designs. No additional hardware is required to overcome mating and unmating forces.</td>
</tr>
<tr>
<td>Long contact life</td>
<td>Low cost of ownership</td>
</tr>
<tr>
<td>The smooth and light wiping action minimizes wear on the contact surfaces. Contacts perform up to 100,000 insertion/extraction cycles with minimal degradation in performance.</td>
<td>The Hypertac contact technology will surpass most product requirements, thus eliminating the burden and cost of having to replace the connector or the entire subsystem.</td>
</tr>
<tr>
<td>Lower contact resistance</td>
<td>Low power consumption</td>
</tr>
<tr>
<td>The design provides a far greater contact area and the wiping action of the wires insures a clean and polished contact surface. Our contact technology has about half the resistance of conventional contact designs.</td>
<td>The lower contact resistance of our technology results in a lower voltage drop across the connector reducing the power consumption and heat generation within the system.</td>
</tr>
<tr>
<td>Higher current ratings</td>
<td>Maximum contact performance</td>
</tr>
<tr>
<td>The design parameters of the contact (e.g., the number, diameter and angle of the wires) may be modified for any requirement. The number of wires can be increased so the contact area is distributed over a larger surface. Thus, the high current carried by each wire because of its intimate line contact, can be multiplied many times.</td>
<td>The lower contact resistance of the Hypertac contact reduces heat build-up; therefore Hypertac contacts are able to handle far greater current in smaller contact assemblies without the detrimental effects of high temperature.</td>
</tr>
<tr>
<td>Immunity to shock &amp; vibration</td>
<td>Reliability under harsh environments</td>
</tr>
<tr>
<td>The low mass and resultant low inertia of the wires enable them to follow the most abrupt or extreme excursions of the pin without loss of contact. The contact area extends 360° around the pin and is uniform over its entire length. The 3 dimensional symmetry of the Hypertac contact design guarantees electrical continuity in all circumstances.</td>
<td>Harsh environmental conditions require connectors that will sustain their electrical integrity even under the most demanding conditions such as shock and vibration. The Hypertac contact provides unmatched stability in demanding environments when failure is not an option.</td>
</tr>
</tbody>
</table>
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- Plug & Cable Receptacle (HG2) ......................................................................................................................... 6

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HyperGrip Circular Connector Series is available with 5, 12, 19 or 33 pin positions and a user-configurable keying system. While competitive products require purchasing a different connector for each keying configuration needed, our advanced keying system allows customers to build connectors with six different keying options reducing lead time and inventory.

Specifically designed to meet medical industry requirements, the HyperGrip connector’s sleek, robust body delivers superior performance in the most crucial applications. Not only does the standard sealing offer IP65 protection when mated to prevent electrical shorts, but the available shielding feature supplies EMI/RFI protection providing the highest degree of safety and reliability.

By utilizing the unparalleled performance of Hypertac® hyperboloid contact technology, HyperGrip connectors are able to provide high cycle life, low power consumption, low insertion force, reliability under harsh conditions, maximum contact performance and excellent wiping action.

HyperGrip connectors are color-coded and range from 12.5 to 22.5mm in diameter. The five available color options, along with our innovative keying system, make recognition effortless and incorrect mating impossible. This becomes essential for medical instrumentation applications where multiple connector interfaces are required.

Smiths Interconnect offers custom options in order to meet application specific requirements. The flexible design of HyperGrip connectors allows for the use of alternate technologies including Fiber Optic (expanded beam or butt joint termini), Coaxial and Spring Probe contacts. Custom inserts, cable mount receptacles and cable assemblies (available in select sizes) can also be provided to optimize your connector solution.

Features & Benefits

- Push/Pull latching feature, quick connect
  Simple one-hand mating/unmating

- Innovative customer keyability
  Easily keyed in 6 standard positions to prevent mismating

- Available with 5 color code options
  Visually intuitive mating

- Sleek, robust body
  Designed to aesthetically complement medical devices

- Sealing to IP65 when mated
  Meets or exceeds typical medical sealing requirements

- Fingerproof
  Meets requirements of IEC 60601-1 specifications

- Multiple contact technologies available
  Flexibility for superior performance in high reliability, high speed, high density, high frequency and/or hybrid solutions

- Shielding option available in HG2, HG3 and HG4
  Protection against EMI/RFI interference

- Autoclave, ETO and Sterrad®1) sterilizable
  Meets typical medical sterilization Requirements

- UL94 V-0 flammability rated materials
  Meets medical industry safety requirements

- Integrated strain relief
  Prevents cable wire fatigue due to bending

- Contacts shipped unloaded
  Easier termination for reduced cost of Ownership: crimp and poke termination eliminates the need to pre-tin, solder, and shrink boot

1) Sterrad® is a registered trademark of Advanced Sterilization Products (ASP) division of Ethicon US, LLC, a Johnson & Johnson Company.
# How To Order

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th>HG</th>
<th>G</th>
<th></th>
<th></th>
<th></th>
<th>R</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1</strong> Series</td>
<td>HG Series</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>2</strong> Size</td>
<td>HG0</td>
<td>HG2</td>
<td>HG3</td>
<td>HG4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>3</strong> Type</td>
<td>Plug</td>
<td>Receptacle/Panel</td>
<td>Receptacle/Cable (Available on HG2 only)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>4</strong> Connector options</td>
<td>Sealed</td>
<td>shielded (Unsealed) HG2, HG3, HG4 only / plugs &quot;P&quot; and panel receptacles &quot;E&quot; only</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>5</strong> Strain relief size</td>
<td>No strain relief (Panel receptacles only)</td>
<td>4.50 - 6.50 mm (HG2 only)</td>
<td>9.00 - 11.00 mm (HG4 only)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2.08 - 3.10 mm (HG0 only)</td>
<td>7.00 - 9.00 mm (HG3 only)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>6</strong> Outer shell color</td>
<td>Light gray</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>7</strong> Color coding</td>
<td>Light gray (Standard)</td>
<td>Blue</td>
<td>Red</td>
<td>Green</td>
<td>Yellow</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>8</strong> Positions</td>
<td>HG0</td>
<td>HG2</td>
<td>HG3</td>
<td>HG4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>9</strong> Contact diameter</td>
<td>0.3mm (HG0)</td>
<td>0.4mm (HG2, HG3, HG4)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>10</strong> Contact gender</td>
<td>Female sockets (Receptacles only)</td>
<td>Male pins (Plugs only)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>11</strong> Termination</td>
<td>Crimp/Solder (26-28 AWG*)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Contacts are shipped unloaded, may be crimped or soldered, then inserted into insulator. For more information, please see Assembly Instructions.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>12</strong> Plating</td>
<td>HG2, HG3, HG4 pins</td>
<td>HG0 pins</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>HG2, HG3, HG4 sockets</td>
<td>HG0 sockets</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Available tooling: Crimp Tool: AFMB or M22520/2-01, Crimp Positioner: K1775 (HG0) or T2030 (HG2, HG3, HG4), Insertion Tool: T2080*
# Technical Characteristics

<table>
<thead>
<tr>
<th></th>
<th>HG0</th>
<th>HG2</th>
<th>HG3</th>
<th>HG4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Number of contacts</strong></td>
<td>5</td>
<td>12</td>
<td>19</td>
<td>33</td>
</tr>
<tr>
<td><strong>Contact diameter</strong></td>
<td>0.012 (0.30)</td>
<td>0.016 (0.40)</td>
<td>0.016 (0.40)</td>
<td>0.016 (0.40)</td>
</tr>
</tbody>
</table>

## Materials

<table>
<thead>
<tr>
<th>Body</th>
<th>Polyetherimide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insulators</td>
<td>Liquid crystal polymer</td>
</tr>
<tr>
<td>Seals</td>
<td>Silicone</td>
</tr>
</tbody>
</table>

## Contact Materials & Plating

<table>
<thead>
<tr>
<th>Sockets</th>
<th>Beryllium copper wires</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Brass body components</td>
</tr>
<tr>
<td></td>
<td>Gold over nickel plating on mating surface</td>
</tr>
<tr>
<td>Pins</td>
<td>Gold flash over nickel on termination</td>
</tr>
<tr>
<td></td>
<td>Phosphor bronze</td>
</tr>
<tr>
<td></td>
<td>Gold over nickel plated</td>
</tr>
</tbody>
</table>

## Terminations

<table>
<thead>
<tr>
<th>Crimp (Pin &amp; Socket)</th>
<th>26 to 28 AWG</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Optional terminations, including solder cup and straight-dip pc tails (for panel mount receptacles), are special order only. Please contact factory for availability.</td>
</tr>
</tbody>
</table>

## Shielding (Optional)

<table>
<thead>
<tr>
<th>Effectiveness</th>
<th>Up to 3 GHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attenuation</td>
<td>50 dB maximum at 3 GHz</td>
</tr>
</tbody>
</table>

## Mechanical

<table>
<thead>
<tr>
<th>Mating cycle life</th>
<th>Up to 20,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact extraction force</td>
<td>0.50 to 1.60 oz. per contact</td>
</tr>
</tbody>
</table>

## Electrical

<table>
<thead>
<tr>
<th>Current Rating (A) per contact, with all contacts energized</th>
<th>5.5</th>
<th>3</th>
<th>2.5</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Resistance</td>
<td>&lt; 8.0 mΩ</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Breakdown Voltage Between Contacts</td>
<td>1,000 V max.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dielectric Withstanding Voltage</td>
<td>750 V</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Insulation Resistance</td>
<td>&gt; 5x10⁴ MΩ at 500 VDC</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Physical & Environmental

<table>
<thead>
<tr>
<th>Operating Temperature Rating</th>
<th>-40º to 125º C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processing Temperature Range</td>
<td>Up to 185º C</td>
</tr>
<tr>
<td>Flammability</td>
<td>Materials meet the requirements of UL94 V-0</td>
</tr>
<tr>
<td>Sterilization</td>
<td>Steam Autoclave, ETO, Sterrad²</td>
</tr>
<tr>
<td>Fingerproofing</td>
<td>Meets IEC 60601-1 requirements</td>
</tr>
<tr>
<td>Sealing mated condition</td>
<td>IP65</td>
</tr>
</tbody>
</table>

## Notes:

1) HyperGrip is patented under US patent numbers: 7,326,091B2; 7,661,995B2; D596,127S; 7,938,670; D615,932; D616,825

2) Sterrad is a registered trademark of Advanced Sterilization Products (ASP) division of Ethicon US, LLC, a Johnson & Johnson Company.

Dimensions are in inches (mm)
## Dimensions

*(Standard HyperGrip® connectors)*

### Standard Plug & Receptacle

For HG0, HG2, HG3 and HG4

PLUG & RECEPTACLE MATED PAIR

with strain relief

![Diagram](image)

[E] RECEPTACLE

with shielding option

![Diagram](image)

[P] PLUG

![Diagram](image)

### Dimensions

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
<th>P</th>
</tr>
</thead>
<tbody>
<tr>
<td>HG0</td>
<td>Ø0.807 (20.50)</td>
<td>0.728 (18.50)</td>
<td>Ø0.630 (16.00)</td>
<td>0.285 (7.25)</td>
<td>1.040 (26.38)</td>
<td>0.343 (8.71)</td>
<td>Ø0.370 (9.40)</td>
<td>Ø0.486 (12.34)</td>
<td>1.415 (35.94)</td>
<td>0.118 (3.00)</td>
<td>0.689 (17.50)</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>HG2</td>
<td>Ø1.014 (25.76)</td>
<td>1.220 (30.88)</td>
<td>Ø0.866 (22.00)</td>
<td>0.272 (6.91)</td>
<td>1.808 (45.92)</td>
<td>0.427 (10.84)</td>
<td>Ø0.502 (12.75)</td>
<td>Ø0.656 (16.66)</td>
<td>2.390 (60.65)</td>
<td>0.118 (3.00)</td>
<td>0.823 (20.90)</td>
<td>Ø0.433 (11.00)</td>
<td>Ø0.197 (5.00)</td>
<td>1.704 (43.27)</td>
</tr>
<tr>
<td>HG3</td>
<td>Ø1.172 (29.77)</td>
<td>1.220 (30.88)</td>
<td>Ø1.007 (25.59)</td>
<td>0.272 (6.91)</td>
<td>2.170 (55.07)</td>
<td>0.354 (9.00)</td>
<td>Ø0.650 (16.50)</td>
<td>Ø0.800 (20.36)</td>
<td>2.730 (69.33)</td>
<td>0.118 (3.00)</td>
<td>0.980 (24.90)</td>
<td>Ø0.535 (13.60)</td>
<td>Ø0.378 (9.60)</td>
<td>1.961 (49.82)</td>
</tr>
<tr>
<td>HG4</td>
<td>Ø1.250 (31.77)</td>
<td>1.220 (30.88)</td>
<td>Ø1.090 (27.80)</td>
<td>0.272 (6.91)</td>
<td>2.170 (55.07)</td>
<td>0.354 (9.00)</td>
<td>Ø0.710 (18.15)</td>
<td>Ø0.880 (22.47)</td>
<td>2.730 (69.33)</td>
<td>0.118 (3.00)</td>
<td>1.060 (26.90)</td>
<td>Ø0.610 (15.50)</td>
<td>Ø0.378 (9.60)</td>
<td>2.124 (53.95)</td>
</tr>
</tbody>
</table>

Dimensions are in inches (mm)
HG2 Plug & Cable Receptacle

HG2 Plug & Cable Receptacle Mated Pair
with strain relief

[C] HG2 Cable Receptacle

[P] HG2 Plug
Keying & Mounting
(User information)

Receptacle Keying

HG2 shown
HG0, HG3 and HG4 are keyed in the same fashion
6 different keying positions possible - A through F

See Assembly Instructions for receptacle keying information:\(^1\):
- S50386: Panel Receptacles
- S50431: Cable Receptacles

Panel Cutouts

All sizes

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>HG0</td>
<td>Ø0.555 (14.10)</td>
<td>0.240 (6.10)</td>
</tr>
<tr>
<td>HG2</td>
<td>Ø0.711 (18.06)</td>
<td>0.329 (8.36)</td>
</tr>
<tr>
<td>HG3</td>
<td>Ø0.870 (22.10)</td>
<td>0.393 (9.98)</td>
</tr>
<tr>
<td>HG4</td>
<td>Ø0.949 (24.10)</td>
<td>0.430 (10.92)</td>
</tr>
</tbody>
</table>

Dimensions are in inches (mm)

Notes:
1) Assembly Instructions also include plug keying information: S50387
Receptacle Mounting Options

1. Assembly outside panel then install

2. Install receptacle body then assemble inside panel

Notes:
Recommended tightening torque for panel mount receptacle for HG2, HG3 and HG4 is 0.452 to 0.678 N•m. For HG0 is 0.226 to 0.339 N•m.
Available Contact Technologies
(Features & Benefits)

HyperGrip® Series

HyperTac® Hyperboloid
- Long Contact Life
  Industry-leading mating cycles provide low cost of ownership
- Low Insertion / Extraction Forces
  Ergonomic mating without cost and size of mate assist hardware
- Lower Contact Resistance
  Low power consumption / lower voltage drop across connector
- Higher Current Ratings
  Smaller contacts needed to carry power for reduced size and weight
- Immunity to Shock & Vibration
  Reliability under harsh environmental conditions
- 360° Contact Wipe
  Self-cleaning contacts assure uninterrupted connection

Spring Probe
- Extremely High Density
  Allows for connectors as dense as 2mm, while maintaining 0.5mm of compliance
- Shock & Vibration Resistant
  Ensures stable connection in rough handling
- Exceptional Misalignment Tolerance
  Simplifies connector design, reducing cost of limited use side
- High Cycle Life
  Maintains electrical continuity for life of the device
- Z-Axis Compliance
  Ideal for blind mate engagement

Coaxial
- 50Ω Characteristic Impedance
  Meets application requirements for most RF interconnects
- Crimp Termination for RG-405 Flex Cable
  Faster termination to cable reduces applied costs
- Low VSWR up to 40 GHz
  Offers improved signal integrity
- Magnetic Permeability: 30x10⁻⁵ µ₁
  Prevents image distortion in MRI environment applications
- Immunity to Shock & Vibration
  Reliability under harsh environmental conditions
- Up to 20K Mating Cycles
  Reduces cost of ownership in high cycle life applications

Fiber Optic
- Two Standard Types
  Size 16 Butt-Joint and Size 12 Expanded-Beam (EB) termini
- Low Insertion Loss
  Transmits high speed signals over longer distances without repeaters
- Hermaphroditic Contacts (Butt Joint)
  Same contact on both sides reduces total cost of ownership
- Multi & Single-Mode Fiber Compatible (EB)
  Ideal for high band width and voice signals
- Low Susceptibility to Contamination (EB)
  Reduced influence from dirt and debris across the connection
- Immunity & Reliability
  Resistant to EMI / RFI and crosstalk
Markets & Applications

Catheter
- Disposable
- High density spring probe contacts
- High cycle life
- Low contact resistance
- Minimal insertion/extraction forces

Patient monitoring
- Hyperboloid signal contacts
- Custom creepage and clearance
- High reliability
- Cost effective
- Patient friendly

Home healthcare
- Hyperboloid and USB signal contacts
- IP65 sealing
- Simple operation
- Ergonomic, ideal for in-home patient use

Portable therapeutic
- Custom cable solution
- Superior reliability for critical application
- Color coded
- Multiple keys to prevent mismating
- Intuitive design

MRI/CT scanning
- Quick push/pull latching
- Hyperboloid signal contacts
- ESD finger-proof protection
- Multiple keying options

Surgical imaging
- Expanded beam Fiber Optic contact
- Easy cleaning and low susceptibility to contamination
- Fiber Optic video connection for easy mating to HD display system
- High speed data transmission
Disclaimer 2020

All of the information included in this catalogue is believed to be accurate at the time of printing. It is recommended, however, that users should independently evaluate the suitability of each product for their intended application and be sure that each product is properly installed, used and maintained to achieve desired results. Smiths Interconnect makes no warranties as to the accuracy or completeness of the information, and disclaims any liability regarding its use. Smiths Interconnect reserves the right to modify design and specifications, in order to improve quality, keep pace with technological development or meet specific production requirements.

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Product Portfolio

- Antenna Systems
- Cable Assemblies
- Connector Solutions
  - Ferrite Components & Assemblies
  - RF Filter Components & Assemblies
  - Integrated Microwave Assemblies
  - Millimeter-Wave Solutions
- RF Components
- Test Sockets and WLCSP Probe Heads
- Time & Frequency Systems
INTERNATIONAL, ALASKA & HAWAII
Please contact one of the ISRs.

Courtney Darrah
Inside Sales Representative
cdarrah@keiconn.com
512-339-3324

Daegan Richmond
Inside Sales Representative
drichmond@keiconn.com
512-339-3331

Francisco Buxareo
Inside Sales Representative
fbuxareo@keiconn.com
512-339-3302

Gabby Bozeman
Inside Sales Representative
gbozeman@keiconn.com
512-339-3325

John Davis
Inside Sales Representative
jdavis@keiconn.com
512-339-3311

Gabby Bozeman
Inside Sales Representative
gbozeman@keiconn.com
512-339-3325

Francisco Buxareo
Inside Sales Representative
fbuxareo@keiconn.com
512-339-3302

Daegan Richmond
Inside Sales Representative
drichmond@keiconn.com
512-339-3331

Courtney Darrah
Inside Sales Representative
cdarrah@keiconn.com
512-339-3324

John Davis
Inside Sales Representative
jdavis@keiconn.com
512-339-3311