DISCRETE SIGNAL & POWER CONTACTS

- Models for dry circuit to 500 amps
- .016” (.4mm) to .650” (16.5mm) diameter pins with mating sockets
- Long life contacts
- Contact resistance from .04 to 8 milliohms
- Ideal for test, burn-in, and highpower use

INDIVIDUAL CONTACTS

Individual pins and sockets are available for those applications where special constraints prohibit the use of multi-pin connectors.

Optional Configurations not shown - Please Consult factory.

<table>
<thead>
<tr>
<th>Contact Dia.</th>
<th>.016</th>
<th>.018</th>
<th>.024</th>
<th>.030</th>
<th>.040</th>
<th>.059</th>
<th>.088</th>
<th>.138</th>
<th>.169</th>
<th>.241</th>
<th>.500</th>
<th>.650</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inches (mm)</td>
<td>(.40)</td>
<td>(.45)</td>
<td>(.60)</td>
<td>(.76)</td>
<td>(1.02)</td>
<td>(1.50)</td>
<td>(2.50)</td>
<td>(3.50)</td>
<td>(4.30)</td>
<td>(6.12)</td>
<td>(12.70)</td>
<td>(16.50)</td>
</tr>
<tr>
<td>Page</td>
<td>148</td>
<td>147</td>
<td>148</td>
<td>149</td>
<td>150</td>
<td>151</td>
<td>152</td>
<td>153</td>
<td>154</td>
<td>155</td>
<td>156</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Contact Styles</th>
<th>Crimp</th>
<th>Solder Cup</th>
<th>Straight Dip</th>
<th>Open Both Ends</th>
<th>Closed End</th>
<th>Threaded Stud</th>
<th>Press In</th>
<th>Right Angle Block</th>
<th>Contact Resis.</th>
<th>Current Rating</th>
<th>Extrac. Force</th>
<th>Contact Life</th>
<th>Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>M=Male</td>
<td>M, F</td>
<td>M, F</td>
<td>M, F</td>
<td>M, F</td>
<td>M, F</td>
<td>M, F</td>
<td>M, F</td>
<td>F</td>
<td>&lt;8</td>
<td>1</td>
<td>.3-1.6oz.</td>
<td>100,000 Cycles</td>
<td>Beryllium copper wires and brass body</td>
</tr>
<tr>
<td>F=Female</td>
<td>M, F</td>
<td>M</td>
<td>M, F</td>
<td>M, F</td>
<td>M, F</td>
<td>M, F</td>
<td>M, F</td>
<td>F</td>
<td>&lt;8</td>
<td>2.5</td>
<td>.5-1.6oz.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Plating Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>G = 10u in. Gold on mating surfaces</td>
</tr>
<tr>
<td>H = 50u in. Gold</td>
</tr>
<tr>
<td>AH = 50u in. Gold on mating surface and gold flash on socket body only</td>
</tr>
<tr>
<td>GT = 10u in. Gold on mating surface and tin lead on socket body only</td>
</tr>
<tr>
<td>HT = 50u in. Gold on mating surface and tin lead on socket body only</td>
</tr>
<tr>
<td>ABH = 50u in. Gold on mating surface and tin lead on tail. All other surfaces gold flash.</td>
</tr>
<tr>
<td>ALT = 30u in. Gold on mating surface and tin on tail. All other surfaces gold flash.</td>
</tr>
<tr>
<td>L = 250u in. Gold</td>
</tr>
</tbody>
</table>

* Suffix at end of part number determines plating.

Example: The G in YPN005-001G equals 10u in. Gold.

Note: Performance specifications are based on mating Hypertronics contacts.
## Y SERIES - SIGNAL & POWER

### Ø .016” (.40mm) CONTACTS

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Male Contacts (PINS)</th>
<th>Female Contacts (SOCKETS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>YPN004-001G</td>
<td></td>
<td></td>
</tr>
<tr>
<td>YPN004-001H</td>
<td></td>
<td></td>
</tr>
<tr>
<td>YPN004-002G</td>
<td></td>
<td></td>
</tr>
<tr>
<td>YPN004-002H</td>
<td></td>
<td></td>
</tr>
<tr>
<td>YPN004-006G</td>
<td></td>
<td></td>
</tr>
<tr>
<td>YPN004-006H</td>
<td></td>
<td></td>
</tr>
<tr>
<td>YSK004-002AH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>YSK004-003AH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>YSK004-005AH</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Materials:** Beryllium copper wires and brass body  
**Plating:** Gold over nickel  
**Resistance:** < 8 milliohms  
**Current Rating:** 1.0 amps  
**Extraction Force:** Min. .3 oz., Max 1.6 oz.  
**Life:** 100,000 cycles

### Plating Reference
- **Male Pins:** G = 10 μin gold (min) over Ni  
- **Female Sockets:** AH = 50 μin gold (min) over Ni on mating surface, gold flash over Ni on termination

### Notes
1. Dimensions in inches (mm).

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Hypertronics Corporation  
Toll Free: 1-800-225-9228  
Tel: 978-568-0451  
Fax: 978-568-0680  
www.hypertronics.com
Y SERIES - SIGNAL & POWER

0.018” (.45mm) CONTACTS

Materials: Beryllium copper wires and brass body
Plating: Gold over nickel
Resistance: < 8 milliohms
Current Rating: 2.5 amps
Extraction Force: Min. .5 oz., Max 1.6 oz.
Life: 100,000 cycles

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DIM A</th>
<th>DIM B</th>
</tr>
</thead>
<tbody>
<tr>
<td>YPN005-001G</td>
<td>0.287 (7.30)</td>
<td></td>
</tr>
<tr>
<td>YPN005-001H</td>
<td>0.287 (7.30)</td>
<td></td>
</tr>
<tr>
<td>YPN005-003H</td>
<td>0.630 (16.00)</td>
<td></td>
</tr>
</tbody>
</table>

Male Contacts (Pins)

Female Contacts (Sockets)

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DIM A</th>
<th>DIM B</th>
</tr>
</thead>
<tbody>
<tr>
<td>YSK005-005AH</td>
<td>0.193 (4.90)</td>
<td>0.197 (5.00)</td>
</tr>
<tr>
<td>YSK005-003AH</td>
<td>0.262 (6.65)</td>
<td></td>
</tr>
<tr>
<td>YSK005-005AH</td>
<td>0.051 (1.30)</td>
<td></td>
</tr>
</tbody>
</table>

Notes
1) Dimensions in inches (mm).

**Y SERIES - SIGNAL & POWER**

Ø .024” (.60mm) CONTACTS

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Materials</td>
<td>Beryllium copper wires and brass body</td>
</tr>
<tr>
<td>Plating</td>
<td>Gold over nickel</td>
</tr>
<tr>
<td>Resistance</td>
<td>&lt; 5 milliohms</td>
</tr>
<tr>
<td>Current Rating</td>
<td>4 amps</td>
</tr>
<tr>
<td>Extraction Force</td>
<td>Min. .5 oz., Max 3.2 oz.</td>
</tr>
<tr>
<td>Life</td>
<td>&gt; 100,000 cycles</td>
</tr>
</tbody>
</table>

**Plating reference**

- **Male Pins**: G = 10 µin. gold (min) over Ni
- **Female Sockets**: AH = 50 µin. gold (min) over Ni on mating surface and gold flash over Ni on termination

### Male Contacts (Pins)

- **YPN006-027H**
  - Ø .024 (.60)
  - .795 (20.20)
  - .445 (11.30)
  - .350 (8.90)
  - .039 (1.00)
  - .024 (.60)

- **YPN006-007H**
  - Ø .024 (.60)
  - .706 (17.92)
  - .445 (11.30)
  - .261 (6.62)
  - .024 (.60)

- **YPN006-001H**
  - Ø .024 (.60)
  - .795 (20.20)
  - .445 (11.30)
  - .350 (8.90)

### Female Contacts (Sockets)

- **YSK006-072AH**
  - Ø .083 (2.10)
  - .463 (11.77)
  - .252 (6.40)
  - .071 (1.80)
  - .035 (.90)

- **YSK006-098AH**
  - Ø .083 (2.10)
  - .483 (12.27)
  - .252 (6.40)
  - .071 (1.80)
  - .039 (1.00)

- **YSK006-027AH**
  - Ø .083 (2.10)
  - .513 (13.02)
  - .252 (6.40)
  - .071 (1.80)
  - .024 (.60)

**Notes**

1) Dimensions in inches (mm).

.030" (.76mm) CONTACTS

Materials: Beryllium copper wires and brass body
Plating: Gold over nickel
Resistance: < 5 milliohms
Current Rating: 5 amps
Extraction Force: Min. .5 oz., Max 3.2 oz.
Life: 100,000 cycles

Plating reference
Male Pins: G = 10 μin. gold (min) over Ni
H = 50 μin. gold (min) over Ni
Female Sockets: AH = 50 μin. gold (min) over Ni on mating surface and gold flash over Ni on termination
GT = 10 μin. gold (min) over Ni on mating surface and tin lead on socket body only.

MALE CONTACTS (PINS)

FEMALE CONTACTS (SOCKETS)

Notes
1) Dimensions in inches (mm).
Y SERIES - SIGNAL & POWER

\(0.040\) (1.02mm) CONTACTS

<table>
<thead>
<tr>
<th>Materials:</th>
<th>Beryllium copper wires and brass body</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plating:</td>
<td>Gold over nickel</td>
</tr>
<tr>
<td>Resistance:</td>
<td>(&lt; 2.5) milliohms</td>
</tr>
<tr>
<td>Current Rating:</td>
<td>7.5 amps</td>
</tr>
<tr>
<td>Extraction Force:</td>
<td>Min. 1.0 oz., Max 3.9 oz.</td>
</tr>
<tr>
<td>Life:</td>
<td>(&gt; 100,000) cycles</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Plating Reference</th>
<th>Male Pins: (\text{G} = 10\ \mu\text{in gold (min) over Ni})</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Female Sockets: (\text{AH} = 50\ \mu\text{in gold (min) over Ni on mating surface, gold flash over Ni on termination})</td>
</tr>
</tbody>
</table>

### MALE CONTACTS (PINS)

YPN0102-004H

YPN0102-015H

Note: Accepts 24 - 26 AWG Wire (Consult factory for availability)

### FEMALE CONTACTS (SOCKETS)

YSK0102-037AH

YSK0102-071AH

YSK0102-004AH

Note: Accepts Up To 20 AWG Wire

### Notes

1) Dimensions in inches (mm).

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Y SERIES - SIGNAL & POWER

Ø .059” (1.5mm) CONTACTS

Materials: Beryllium copper wires and brass body
Plating: Gold over nickel
Resistance: < 2.5 milliohms
Current Rating: 8-10 amps
Extraction Force: Min. 1.2 oz., Max 5 oz.
Life: 100,000 cycles

Plating Reference
Male Pins: G = 10 μin gold (min) over Ni
H = 50 μin gold (min) over Ni
Female Sockets: AH = 50 μin gold (min) over Ni on mating surface, gold flash over Ni on termination

Note: Accepts Up to 16 AWG Wire
Note: Accepts 14 - 20 AWG Wire

MALE CONTACTS (PINS)

FEMALE CONTACTS ( SOCKETS )

Notes
1) Dimensions in inches (mm).

### .098" (2.5mm) CONTACTS

**Materials:** Beryllium copper wires and brass body  
**Plating:** Gold over nickel  
**Resistance:** < .8 milliohms  
**Current Rating:** 15 amps  
**Extraction Force:** Min. 6 oz., Max 25 oz.  
**Life:** > 100,000 cycles

#### MALE CONTACTS (PINS)

**PART NUMBER** | **DIM A** | **WIRE SIZE**  
--- | --- | ---  
YPN025-002G | .059 (1.50) | 18 - 22 AWG  
YPN025-002H | .059 (1.50) | 18 - 22 AWG  
YPN025-003G | .076 (1.95) | 13 - 14 AWG  
YPN025-003H | .076 (1.95) | 13 - 14 AWG  
CRIMP TOOL: M300BT  
POSITIONER: SP611

#### FEMALE CONTACTS (SOCKETS)

**PART NUMBER** | **DIM A** | **WIRE SIZE**  
--- | --- | ---  
YSK025-003AH | .059 (1.50) | 18 - 22 AWG  
YSK025-004AH | .074 (1.87) | 13 - 14 AWG  
CRIMP TOOL: M300BT  
POSITIONER: SP611

**Note:** Accepts Up to 12 AWG Wire

### Notes

1) Dimensions in inches (mm).

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**Y SERIES - SIGNAL & POWER**

### .138” (3.5mm) CONTACTS

**Materials:** Beryllium copper wires and brass body  
**Plating:** Gold over nickel  
**Resistance:** < .5 milliohms  
**Current Rating:** 25, 40, & 50 amps  
**Extraction Force:** Min. 7 oz., Max 32 oz.  
**Life:** > 100,000 cycles

#### MALE CONTACTS (PINS)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Dim A</th>
<th>Dim B</th>
<th>Dim C</th>
<th>Dim D</th>
<th>Wire Size</th>
<th>Current Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>YPN035-001H</td>
<td>.137</td>
<td>.295</td>
<td>.177</td>
<td>.945</td>
<td>10 AWG</td>
<td>25 Amps</td>
</tr>
<tr>
<td>YPN035-024H</td>
<td>.177</td>
<td>.374</td>
<td>.193</td>
<td>.937</td>
<td>8 AWG</td>
<td>50 Amps</td>
</tr>
</tbody>
</table>

**Note:** Suggested Solder Mount Hole .264 ± .002 (.670 ± .050)

#### FEMALE CONTACTS ( SOCKETS )

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Dim A</th>
<th>Dim B</th>
<th>Dim C</th>
<th>Dim D</th>
<th>Wire Size</th>
<th>Current Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>YSK035-001AH</td>
<td>.137</td>
<td>.177</td>
<td>.945</td>
<td>10 AWG</td>
<td>25 Amps</td>
<td></td>
</tr>
<tr>
<td>YSK035-006AH</td>
<td>.137</td>
<td>.177</td>
<td>.937</td>
<td>8 AWG</td>
<td>50 Amps</td>
<td></td>
</tr>
<tr>
<td>YSK035-027AH</td>
<td>.177</td>
<td>.193</td>
<td>.937</td>
<td>8 AWG</td>
<td>50 Amps</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** Suggested Solder Mount Hole .264 ± .002 (.670 ± .050)
Y SERIES - SIGNAL & POWER

Ø .169” (4.3mm) CONTACTS

Materials: Beryllium copper wires and brass body
Plating: Gold over nickel
Resistance: < .37 milliohms
Current Rating: 100 amps
Extraction Force: Min. 15 oz., Max 90 oz.
Life: 100,000 cycles

MALE CONTACTS (PINS)

Note: Accepts 4 AWG Wire
YPN043-014RG

FEMALE CONTACTS (SOCKETS)

Note: Accepts Up To 5 AWG Wire
Mates Only With YSK043-008AH
YPN043-009H
(Consult factory for availability)

Notes
1) Dimensions in inches (mm).

Y SERIES - SIGNAL & POWER

Ø .241” (6.12mm) CONTACTS

- Materials: Beryllium copper wires and brass body
- Plating: Gold over nickel
- Resistance: < .25 milliohms
- Current Rating: 200 amps
- Extraction Force: Min. 80 oz., Max 160 oz.
- Life: 100,000 cycles

**MALE CONTACTS (PINS)**

- Note: Accepts 1/0 AWG Wire

**FEMALE CONTACTS (SOCKETS)**

- Note: Accepts 1/0 AWG Wire

**Notes**

1) Dimensions in inches (mm).

**Specifications**

- Male Pins: G = 10 μin gold (min) over Ni
- Female Sockets: AH = 50 μin gold (min) over Ni on mating surface, gold flash over Ni on termination

**Dimensions**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Dim A</th>
<th>Dim B</th>
</tr>
</thead>
<tbody>
<tr>
<td>YPN0612-021RI</td>
<td>1.392 (35.35)</td>
<td>2.463 (62.55)</td>
</tr>
<tr>
<td>YPN0612-023RI</td>
<td>1.626 (41.30)</td>
<td>2.697 (68.50)</td>
</tr>
<tr>
<td>YPN0612-001G</td>
<td>1.000 (25.40)</td>
<td>.876 (22.25)</td>
</tr>
<tr>
<td>YPN0612-001H</td>
<td>1.000 (25.40)</td>
<td>.197 (5.00)</td>
</tr>
<tr>
<td>YSK0612-015AH</td>
<td>.933 (23.70)</td>
<td>.180 (4.57)</td>
</tr>
<tr>
<td>YSK0612-003AH</td>
<td>1.562 (39.67)</td>
<td>.312-24 UNF-2A</td>
</tr>
<tr>
<td>HPG241F30AH</td>
<td>.835 (21.20)</td>
<td>.555 (14.10)</td>
</tr>
<tr>
<td>HPG241F32AH</td>
<td>.546 (13.86)</td>
<td>.312-24 UNF-2A</td>
</tr>
<tr>
<td>HPG241F31AH</td>
<td>.688-24 UNF-2A</td>
<td>.060 (1.52)</td>
</tr>
</tbody>
</table>

Y SERIES - SIGNAL & POWER

Ø .500" (12.70mm) CONTACTS

Materials: Beryllium copper wires and brass body
Plating: Gold over nickel
Resistance: < .08 milliohms
Current Rating: 350 amps
Extraction Force: Min. 9 lbs., Max 20 lbs.
Life: 100,000 cycles

Plating Reference
Male Pins: G = 10 μm gold (min) over Ni
H = 50 μm gold (min) over Ni
Female Sockets: AH = 50 μm gold (min) over Ni on mating surface, gold flash over Ni on termination

MALE CONTACTS (PINS)

FEMALE CONTACTS (SOCKETS)

Ø .650" (16.50mm) CONTACTS

Materials: Beryllium copper wires and brass body
Plating: Gold over nickel
Resistance: < .04 milliohms
Current Rating: 500 amps
Extraction Force: Min. 20 lbs., Max 37 lbs.
Life: > 100,000 cycles

Plating Reference
Male Pins: G = 10 μm gold (min) over Ni
H = 50 μm gold (min) over Ni
Female Sockets: AH = 50 μm gold (min) over Ni on mating surface, gold flash over Ni on termination

Consult factory for availability.

Notes
1) Dimensions in inches (mm).