

# Series 970 PowerTrip™ Connectors and Accessories

## Contacts and Tools

### Crimp Contacts



## CRIMP CONTACTS

Series 970 PowerTrip™ contacts for size #16 through Size #1/0 wire. Size #8, #4 and #1/0 contacts are high conductivity copper alloy (IACS >90%) with silver or gold plating. Size #12 and #16 contacts are copper alloy with gold over palladium finish. Size #1/0, 4 and 8 socket contacts feature low resistance, high durability louverband springs. Terminate to wire with standard crimp tools. Contacts are snap-in, rear-release and meet the performance requirements of SAE AS39029.



Pin Contact



Socket Contact

- LouverBand Springs
- High Conductivity Alloy
- Crimp Termination
- Gold or Silver Plating

### Crimp Contacts

| Size | Wire Size | Finish         | Pin Contact Part Number        | Socket Contact Part Number     | Socket Contact Type |
|------|-----------|----------------|--------------------------------|--------------------------------|---------------------|
| 16   | #16-#20   | Gold/Palladium | <a href="#">850-037-16</a>     | <a href="#">850-038-16</a>     | Split-Tine          |
| 12   | #12-#14   | Gold/Palladium | <a href="#">850-037-12</a>     | <a href="#">850-038-12</a>     | Split-Tine          |
| 8    | #8        | Silver         | <a href="#">850-026-8-8-1</a>  | <a href="#">850-027-8-8-1</a>  | LouverBand          |
|      |           | Gold           | <a href="#">850-026-8-8-2</a>  | <a href="#">850-027-8-8-2</a>  | LouverBand          |
|      | #10       | Silver         | <a href="#">850-026-8-10-1</a> | <a href="#">850-027-8-10-1</a> | LouverBand          |
|      |           | Gold           | <a href="#">850-026-8-10-2</a> | <a href="#">850-027-8-10-2</a> | LouverBand          |
| 4    | #4        | Silver         | <a href="#">850-026-4-4-1</a>  | <a href="#">850-027-4-4-1</a>  | LouverBand          |
|      |           | Gold           | <a href="#">850-026-4-4-2</a>  | <a href="#">850-027-4-4-2</a>  | LouverBand          |
|      | #6        | Silver         | <a href="#">850-026-4-6-1</a>  | <a href="#">850-027-4-6-1</a>  | LouverBand          |
|      |           | Gold           | <a href="#">850-026-4-6-2</a>  | <a href="#">850-027-4-6-2</a>  | LouverBand          |
| 1/0  | #1/0      | Silver         | <a href="#">850-026-0-0-1</a>  | <a href="#">850-027-0-0-1</a>  | LouverBand          |
|      |           | Gold           | <a href="#">850-026-0-0-2</a>  | <a href="#">850-027-0-0-2</a>  | LouverBand          |
|      | #2        | Silver         | <a href="#">850-026-0-2-1</a>  | <a href="#">850-027-0-2-1</a>  | LouverBand          |
|      |           | Gold           | <a href="#">850-026-0-2-2</a>  | <a href="#">850-027-0-2-2</a>  | LouverBand          |

### Tools for Contact Crimping and Installation

| Contact Size | Insertion/Extraction Tool | Extraction Tool         | Crimp Tool              | Positioner              | Die Set                 | Locator                 |
|--------------|---------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| #16          | <a href="#">809-131</a>   | —                       | <a href="#">809-136</a> | <a href="#">859-032</a> | —                       | —                       |
| #12          | <a href="#">809-132</a>   | —                       | <a href="#">809-136</a> | <a href="#">859-032</a> | —                       | —                       |
| #8           | —                         | <a href="#">859-022</a> | <a href="#">859-025</a> | —                       | <a href="#">859-026</a> | <a href="#">859-029</a> |
| #4           | —                         | <a href="#">859-023</a> | <a href="#">859-025</a> | —                       | <a href="#">859-027</a> | <a href="#">859-030</a> |
| #1/0         | —                         | <a href="#">859-024</a> | <a href="#">859-025</a> | —                       | <a href="#">859-028</a> | <a href="#">859-031</a> |

### Material and Finish Specifications

|                              |                                                                                                       |
|------------------------------|-------------------------------------------------------------------------------------------------------|
| Pin, Size #16 and #12        | Copper alloy, gold flash over palladium finish                                                        |
| Pin, Size #8, #4 and #1/0    | High conductivity copper alloy, gold or silver finish over nickel                                     |
| Socket, Size #16 and #12     | Copper alloy, stainless steel hood, gold flash over palladium finish                                  |
| Socket, Size #8, #4 and #1/0 | High conductivity copper alloy, beryllium copper louverband spring, gold or silver finish over nickel |

### Contact Current Rating and Resistance

| Contact and Wire Size | Current Rating at 20° C (Amperes) | Current Rating at 80° C (Amperes) | Max. Contact Resistance (milliohms) |
|-----------------------|-----------------------------------|-----------------------------------|-------------------------------------|
| #16                   | 22                                | 13                                | 6.0                                 |
| #12                   | 41                                | 23                                | 3.0                                 |
| #8                    | 73                                | 46                                | 1.0                                 |
| #4                    | 135                               | 80                                | 0.5                                 |
| #1/0                  | 245                               | 150                               | 0.3                                 |

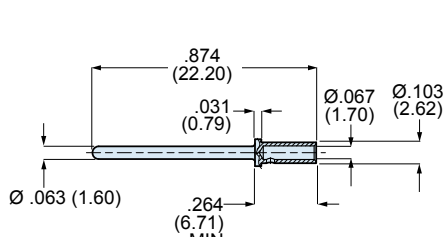


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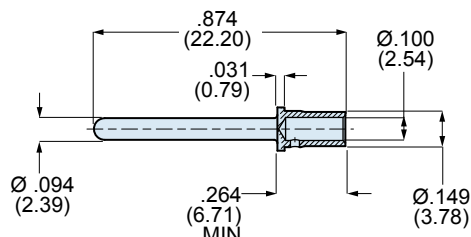
## Contacts and Tools

### Crimp Contacts

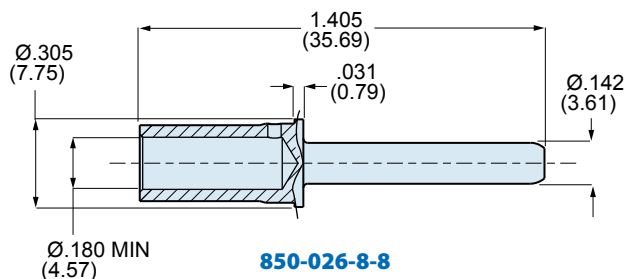
#### PIN CONTACTS



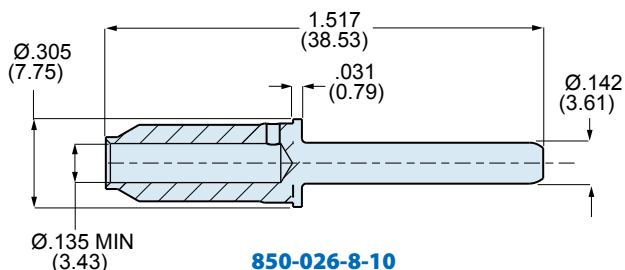
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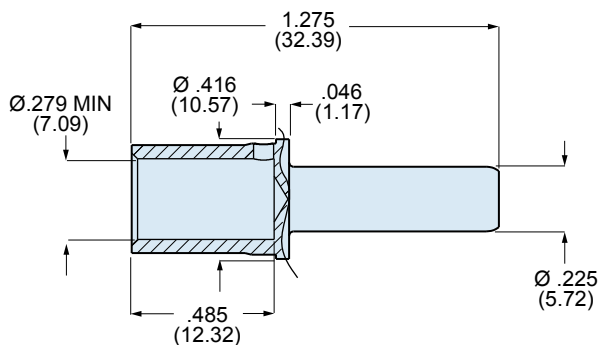
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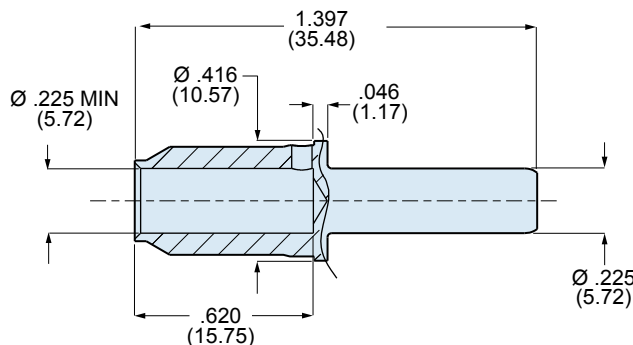
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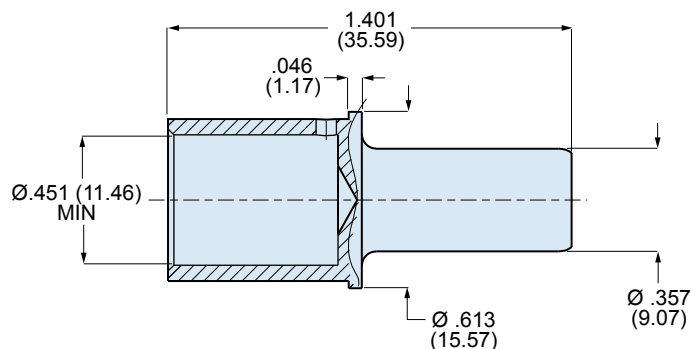
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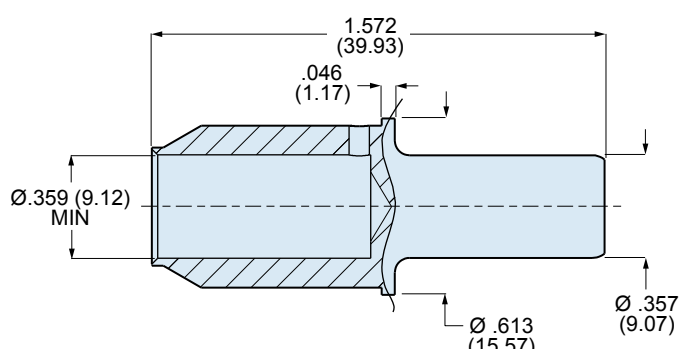
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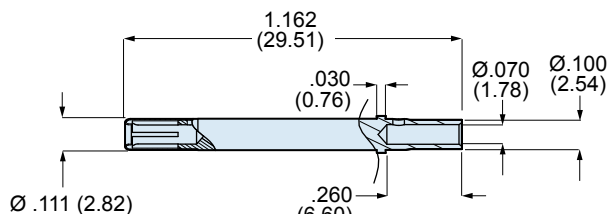


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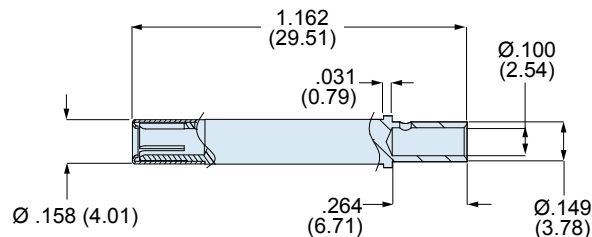


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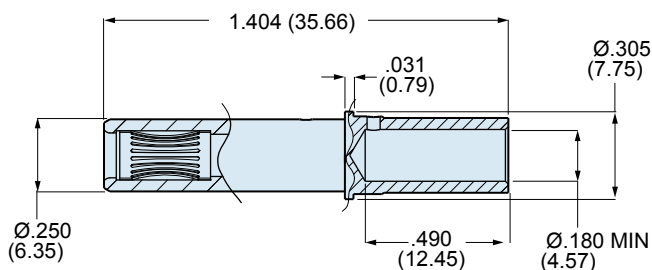
## SOCKET CONTACTS



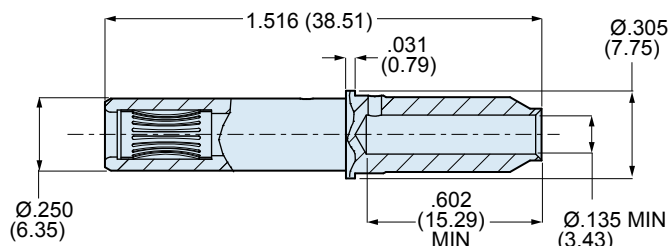
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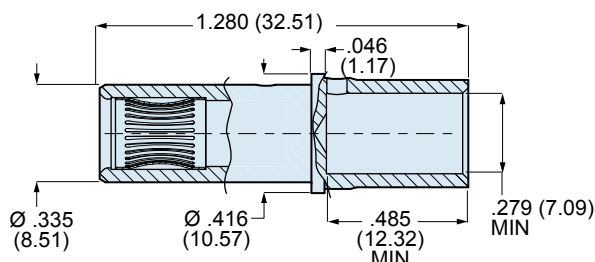
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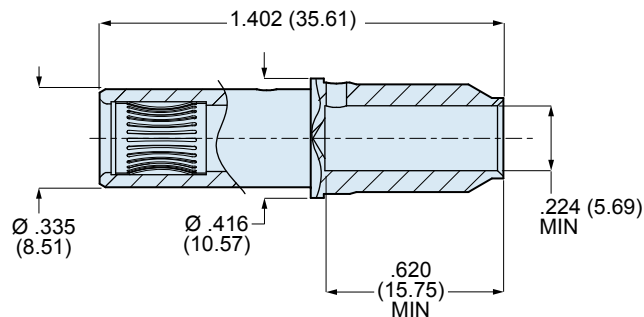
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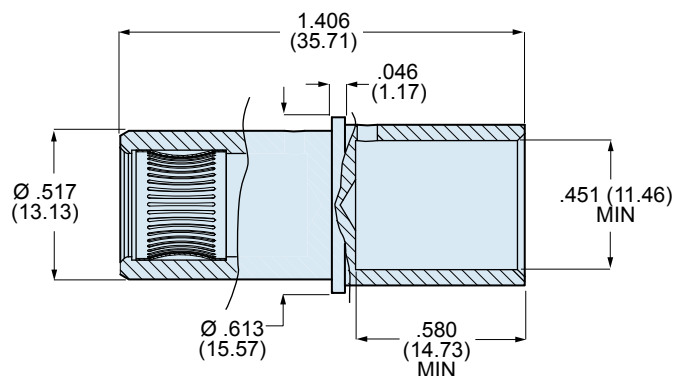
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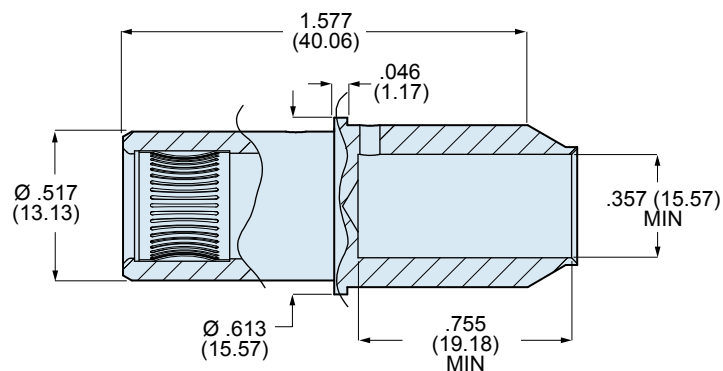
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