Technical Characteristics

Materials and Finishes
(Consult factory for availability of other colors.)
Contacts: Precision machined copper alloy with gold flash over nickel. Other finishes available upon request.

Electrical Characteristics
Contact Current Rating (per UL 1977):
Size 8 Contacts: 60 amperes, continuous (standard material).
Consult factory for high conductivity material.
Initial Contact Resistance max. (per IEC 512-2, Test 2b):
Size 8 Contacts: 0.001 ohms (standard material).
Insulator Resistance (per IEC 512-2, Test 3a): 5 G ohms.
Voltage Proof: 2200 V r.m.s.
Working Voltage: 600 V r.m.s.
Hot Pluggable: Consult factory.

Mechanical Characteristics
Polarization: Provided by connector body design.
Removable Contacts: Insert contact in rear face of insulator; release from front face of insulator with a contact extraction tool. Female contacts feature "Closed Entry" design.
Removable 67 N [15 lbs.] per IEC 512-8, Contact Retention in Connector Body: Test 15a.
Mechanical Operations: 1,000 cycles
Climatic Characteristics
Working temperature: -55°C to +125°C
UL: Consult factory.
TÜV: Consult factory.
Temperature Rise Curves
Tested per IEC 512-3, Test 5a

Above curves developed using Size 8 contact with 6 AWG wire.

Consult factory for high conductive contact material results.

Accessories & Contacts

Mounting Bracket

Plastic Mount Bracket for Single Connector

Materials and Finishes: PC UL 94V-0.
Thickness: 2.00 [0.079].

Metal Mount Brackets for Two Connectors

Materials and Finishes: Steel, Zinc Plate,
Thickness: 1.50 [0.059].

Panel Mount Cut Out Dimensions

(Part number 5071-4-0 for metal mount plate, order separately)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>5071-12-*</td>
<td>Single Connector</td>
<td>20.00 [0.787]</td>
<td>20.00 [0.787]</td>
<td>28.00 [1.102]</td>
<td>28.00 [1.102]</td>
<td>16.00 [0.629]</td>
<td>16.00 [0.629]</td>
</tr>
<tr>
<td>5071-4-0</td>
<td>Two Connectors</td>
<td>31.80 [1.252]</td>
<td>27.10 [0.854]</td>
<td>41.50 [1.634]</td>
<td>35.20 [1.386]</td>
<td>32.50 [1.279]</td>
<td>18.00 [0.709]</td>
</tr>
</tbody>
</table>
Removable Crimp Contacts

<table>
<thead>
<tr>
<th>Ø“A”</th>
<th>Ø3.60 [0.142]</th>
<th>Ø3.60 [0.142]</th>
</tr>
</thead>
<tbody>
<tr>
<td>28.35 [1.116]</td>
<td>29.91 [1.178]</td>
<td>12.00 [0.472]</td>
</tr>
</tbody>
</table>

Removable Internal Threads Contacts (Bus Bar Contacts)

<table>
<thead>
<tr>
<th>Ø17.50 [0.689]</th>
<th>36.50 [1.437]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø17.50 [0.689]</td>
<td>36.50 [1.437]</td>
</tr>
</tbody>
</table>

Consult sales for availability of high conductivity material.

Contact and other features

### Contacts and Other Features

**Removable Crimp Contacts**

- **Part Number**
  - WSFC86N2: Female Contacts
  - WSFC88N2: Male Contacts

**Removable Internal Threads Contacts**

- **Part Number**
  - WSMT08M: Female Contacts
  - WSMT08S: Male Contacts

**Wire Size**

<table>
<thead>
<tr>
<th>Part Number (Standard Material)</th>
<th>Thread Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>WSFT08M</td>
<td>M4 x0.7</td>
</tr>
<tr>
<td>WSFT08S</td>
<td>8-32 UNC 2B</td>
</tr>
<tr>
<td>WSMT08M</td>
<td>M4 x0.7</td>
</tr>
<tr>
<td>WSMT08S</td>
<td>8-32 UNC 2B</td>
</tr>
</tbody>
</table>

**Cable Shroud**

- Material: Nylon, UL 94V-0
- Color coding for easy mating
  - Color coded mounting bracket for easy visual mating.
  - Color coded Clip* for easy visual mating.

- *Cable shroud will accept max. 7.00mm[0.275] diameter wire. Material: Nylon, UL 94V-0

- Multiple Connector Locking Feature:
  - Connectors can be latched together via the built in attachment groove.
  - Material: Nylon, UL 94V-0

- Polarity:
  - For multiple contact configurations, alternate male & female combination to avoid mismating.

- Color coding for easy mating:
  - Color coded Clip* for easy visual mating.
  - (Consult factory for availability.)
### Connector Ordering Information

**Step 1: Basic Series**  
WSS: Single Connector  
WSD: Two Connectors

**Step 2: Type of Contacts**  
01 : Removable contact. Contacts ordered separately.

**Steps 3: Connector Gender**  
M - Male  
F - Female

**Step 4: Mounting Style and Cable Shroud**  
0 : No hardware.  
P1 : Plastic panel mount bracket for one connector. (Select WSS in Step 1)  
J : Cable Shroud. (Mounting plate for two connector version order separately Part number 5071-4-0, see page 2 for details.)

**Step 5: Environmental Compliance Options**  
/AA : Compliant per EU Directive 2002/95/EC (RoHS)  
Example: WSS01M0/AA

Note: If no environmental options are required, this step will not be used. Example: WSS01M0

**Step 6: Special Options**  
Consult factory for color code Flange and Clip part numbers. (see page 3)

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**Contact Extraction Tool**  
Adjustable Hand Crimp Tool

<table>
<thead>
<tr>
<th>Contact Size</th>
<th>Contact Extraction Tool</th>
<th>Hand Crimp Tool</th>
<th>Wire Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size 8</td>
<td>5071-100-0</td>
<td>5071-14-0</td>
<td>6 AWG [13.5 mm²]</td>
</tr>
<tr>
<td>Size 8</td>
<td>5071-100-0</td>
<td>5071-14-0</td>
<td>8 AWG [8.5 mm²]</td>
</tr>
</tbody>
</table>

**Recommended Tools for Removable Contacts**

<table>
<thead>
<tr>
<th>Wire Size</th>
<th>Axial Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 AWG [13.5 mm²]</td>
<td>1200N [270 lbs.]</td>
</tr>
<tr>
<td>8 AWG [8.5 mm²]</td>
<td>890N [200 lbs.]</td>
</tr>
</tbody>
</table>

As per SAE AS9009

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