Series 801 Harsh Environment Shielded Cordsets

High performance Mighty Mouse cordsets feature easy ordering and fast delivery. These fully shielded and watertight assemblies withstand abrasion, temperature extremes and chemicals. Flexible overmolding provides rugged, watertight protection to wire and shield. Two styles are available: Style 1 polyamide overmold and polyurethane cable jacket, and Style 2 improved temperature range, high flexibility thermoplastic rubber overmold and cable jacket. Overmolded Mighty Mouse cordsets are suitable for military gear and other hostile environments where interconnect reliability and survivability is essential.

### Product Features
- Single-ended or double-ended
- Rugged, watertight construction
- 100% electrically tested
- Flexible to -55°C (Style 2)
- Stainless steel shield termination band
- Resistant to chemicals
- Withstands UV and ozone

### High-Speed Cordsets
Controlled impedance twisted pair cordsets for Ethernet, USB and other protocols are available. Please refer to Section U

### Harsh Environment Cordset Selection Guide

<table>
<thead>
<tr>
<th>Property</th>
<th>Style 1 Polyurethane Jacket Polyamide Overmold</th>
<th>Style 2 Rubber Jacket Rubber Overmold</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable jacket</td>
<td>Thermoplastic polyurethane (TPU), black</td>
<td>Thermoplastic elastomer (TPV), black</td>
</tr>
<tr>
<td>Overmold</td>
<td>Polyamide, black</td>
<td>Thermoplastic elastomer (TPV), black</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-30°C to +105°C</td>
<td>-55°C to +135°C</td>
</tr>
<tr>
<td>Flexibility</td>
<td>Good</td>
<td>Excellent</td>
</tr>
<tr>
<td>Water Resistance</td>
<td>Waterproof</td>
<td>Waterproof</td>
</tr>
<tr>
<td>Solvent Resistance, Cable Jacket</td>
<td>Excellent</td>
<td>Good</td>
</tr>
<tr>
<td>Solvent Resistance, Overmold</td>
<td>Fair (1)</td>
<td>Good</td>
</tr>
<tr>
<td>Weatherability</td>
<td>Excellent</td>
<td>Excellent</td>
</tr>
<tr>
<td>Abrasion Resistance</td>
<td>Excellent</td>
<td>Good</td>
</tr>
<tr>
<td>Flammability</td>
<td>Flame retardant UL 94 V-0</td>
<td>Flame retardant UL 94 HB</td>
</tr>
<tr>
<td>Low Smoke, Zero Halogen Cable Jacket</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

(1) Excellent resistance to most solvents, fuels, and oils; poor resistance to strong acids and bipolar solvents (alcohol)

### Specifications

<table>
<thead>
<tr>
<th></th>
<th>Style 1: thermoplastic polyurethane, black, low-smoke, zero-halogen</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Style 2: thermoplastic elastomer, black</td>
</tr>
<tr>
<td>Cable jacket</td>
<td>Style 1: polyamide</td>
</tr>
<tr>
<td></td>
<td>Style 2: thermoplastic elastomer, black</td>
</tr>
<tr>
<td>Overmold</td>
<td>Tin-coated copper braid, 90% minimum coverage</td>
</tr>
<tr>
<td>Cable shield</td>
<td>Band-Master™ ATS stainless steel shield termination band</td>
</tr>
<tr>
<td>Conductors</td>
<td>Silver coated stranded wire, TFE insulated, per M22759/11</td>
</tr>
<tr>
<td>Shield Termination</td>
<td>#23 5 amps, #20 7.5 amps, #16 13 amps, #12 23 amps</td>
</tr>
<tr>
<td>Current rating</td>
<td>#23 500 Vac, #20 500 vac, #16 and #12 500 VAC sea level</td>
</tr>
<tr>
<td>Test voltage (DVV)</td>
<td>200 Megohms minimum</td>
</tr>
<tr>
<td>Insulation resistance</td>
<td>50 dB minimum from 100MHz to 1000MHz.</td>
</tr>
</tbody>
</table>

Dimensions in Inches (millimeters) are subject to change without notice.

© 2014 Glenair, Inc.

Series 80 Mighty Mouse U.S. CAGE Code 06324 Printed in U.S.A.
Series 801 Mighty Mouse Double Start ACME Thread
Overmolded Harsh Environment Cordsets

Dimensions

<table>
<thead>
<tr>
<th>Shell Size</th>
<th>A Max.</th>
<th>B Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>In.</td>
<td>mm.</td>
</tr>
<tr>
<td>5</td>
<td>2.31</td>
<td>58.67</td>
</tr>
<tr>
<td>6</td>
<td>2.4</td>
<td>60.96</td>
</tr>
<tr>
<td>7</td>
<td>2.5</td>
<td>63.50</td>
</tr>
<tr>
<td>8</td>
<td>2.52</td>
<td>64.01</td>
</tr>
<tr>
<td>9</td>
<td>2.8</td>
<td>71.12</td>
</tr>
<tr>
<td>10</td>
<td>2.75</td>
<td>69.85</td>
</tr>
<tr>
<td>11</td>
<td>2.85</td>
<td>72.39</td>
</tr>
<tr>
<td>13</td>
<td>3.1</td>
<td>78.74</td>
</tr>
<tr>
<td>16</td>
<td>3.4</td>
<td>86.36</td>
</tr>
<tr>
<td>17</td>
<td>3.4</td>
<td>86.36</td>
</tr>
</tbody>
</table>

NOTES
1. Double-ended cordsets are wired pin #1 to pin #1, #2 to #2, and so on.
2. Wires are silver-coated stranded copper with TFE insulation, 600V, in accordance with M22759/11.
3. Wire color is IAW MIL-STD-681 for cables containing 10 wires or less. For cable containing more than 10 wires, wire color is white.

Dimensions in Inches (millimeters) are subject to change without notice.

D-56
### Series 801 Cordsets with #23 Contacts

<table>
<thead>
<tr>
<th>Series 801-026</th>
<th>-A</th>
<th>C</th>
<th>4</th>
<th>M</th>
<th>8-28</th>
<th>N</th>
<th>A</th>
<th>-36</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series</td>
<td>End A Connector</td>
<td>End B Connector</td>
<td>Wire Size</td>
<td>Shell Material / Finish</td>
<td>Insert Arr.</td>
<td>Protective Cover</td>
<td>Shell Key Pos.</td>
<td>Length</td>
</tr>
<tr>
<td>801-026 Style 1 Polyurethane Cable Jacket, Polyamid Overmold #23 Contacts</td>
<td>-A Plug, with Male Pin Contacts</td>
<td>-B Plug, with Female Socket Contacts</td>
<td>-C Receptacle, with Male Pin Contacts</td>
<td>-D Receptacle, with Female Socket Contacts</td>
<td>A Plug, with Male Pin Contacts</td>
<td>2 #22 AWG</td>
<td>M Aluminum / Electroless Nickel</td>
<td>Overall Length In inches 12 Inch Min.</td>
</tr>
<tr>
<td>801-070 Style 2 Rubber Cable Jacket and Rubber Overmold #23 Contacts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4 #24 AWG</td>
<td>4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Series 801 Cordsets with #20HD Contacts

<table>
<thead>
<tr>
<th>Series 801-034</th>
<th>-A</th>
<th>C</th>
<th>0</th>
<th>M</th>
<th>8-28</th>
<th>N</th>
<th>A</th>
<th>-36</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series</td>
<td>End A Connector</td>
<td>End B Connector</td>
<td>Wire Size</td>
<td>Shell Material / Finish</td>
<td>Insert Arr.</td>
<td>Protective Cover</td>
<td>Shell Key Pos.</td>
<td>Length</td>
</tr>
<tr>
<td>801-034 Style 1 Polyurethane Cable Jacket, Polyamid Overmold #20HD Contacts</td>
<td>-A Plug, with Male Pin Contacts</td>
<td>-B Plug, with Female Socket Contacts</td>
<td>-C Receptacle, with Male Pin Contacts</td>
<td>-D Receptacle, with Female Socket Contacts</td>
<td>A Plug, with Male Pin Contacts</td>
<td>0 #20 AWG</td>
<td>M Aluminum / Electroless Nickel</td>
<td>Overall Length In inches 12 Inch Min.</td>
</tr>
<tr>
<td>801-071 Style 2 Rubber Cable Jacket and Rubber Overmold #20HD Contacts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 #22 AWG</td>
<td>2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Dimensions in Inches (millimeters) are subject to change without notice.
## Series 801 Cordsets with #16 Power Contacts

<table>
<thead>
<tr>
<th>Sample Part Number</th>
<th>Series</th>
<th>End A Connector</th>
<th>End B Connector</th>
<th>Wire Size</th>
<th>Shell Material / Finish</th>
<th>Insert Arr.</th>
<th>Protective Cover</th>
<th>Shell Key Pos.</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>801-031 Style 1</td>
<td>Polyurethane Cable Jacket, Polyamide Overmold #16 contacts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>801-072 Style 2</td>
<td>Rubber Cable Jacket and Rubber Overmold #16 Contacts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>801-031</td>
<td>-A</td>
<td>Plug, with Male Pin Contacts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>-B</td>
<td>Plug, with Female Socket Contacts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>-C</td>
<td>Receptacle, with Male Pin Contacts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>-D</td>
<td>Receptacle, with Female Socket Contacts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>#16 AWG</td>
<td>M</td>
<td>Aluminum / Electroless Nickel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>#18 AWG</td>
<td>B</td>
<td>Aluminum / Cadmium with OD Chromate</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>801-031 Style 1</td>
<td>Polyurethane Cable Jacket, Polyamide Overmold #16 contacts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>801-072 Style 2</td>
<td>Rubber Cable Jacket and Rubber Overmold #16 Contacts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>Plug, with Male Pin Contacts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Plug, with Female Socket Contacts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>Receptacle, with Male Pin Contacts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>Receptacle, with Female Socket Contacts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>801-031</td>
<td>N</td>
<td>No Connector (Single-Ended)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Series 801 Cordsets with #12 Power Contacts

<table>
<thead>
<tr>
<th>Sample Part Number</th>
<th>Series</th>
<th>End A Connector</th>
<th>End B Connector</th>
<th>Wire Size</th>
<th>Shell Material / Finish</th>
<th>Insert Arr.</th>
<th>Protective Cover</th>
<th>Shell Key Pos.</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>801-032 Style 1</td>
<td>Polyurethane Cable Jacket, Polyamide Overmold #12 contacts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>801-073 Style 2</td>
<td>Rubber Cable Jacket and Rubber Overmold #12 Contacts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>801-032</td>
<td>-A</td>
<td>Plug, with Male Pin Contacts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>-B</td>
<td>Plug, with Female Socket Contacts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>-C</td>
<td>Receptacle, with Male Pin Contacts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>-D</td>
<td>Receptacle, with Female Socket Contacts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>#12 AWG</td>
<td>M</td>
<td>Aluminum / Electroless Nickel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>#14 AWG</td>
<td>B</td>
<td>Aluminum / Cadmium with OD Chromate</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>801-032 Style 1</td>
<td>Polyurethane Cable Jacket, Polyamide Overmold #12 contacts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>801-073 Style 2</td>
<td>Rubber Cable Jacket and Rubber Overmold #12 Contacts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>Plug, with Male Pin Contacts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Plug, with Female Socket Contacts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>Receptacle, with Male Pin Contacts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>Receptacle, with Female Socket Contacts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>801-032</td>
<td>N</td>
<td>No Connector (Single-Ended)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Dimensions in Inches (millimeters) are subject to change without notice.