Brad® M23 Power Overmolded Cordsets

Designed to meet the most stringent of customer requirements, Brad® M23 Power Overmolded Cordsets save space and time in the harshest of industrial environments

**Features and Benefits**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>M23 interface with multiple pin-out options</td>
<td>Adheres to de-facto market standard (no official standard, such as IEC, exists). Interfaces easily with existing M23 infrastructure. Enhances design flexibility and eases installation</td>
</tr>
<tr>
<td>Low-profile, pre-assembled overmold and connector</td>
<td>Mitigates wiring and assembly errors while saving valuable time and space</td>
</tr>
<tr>
<td>IP67 seal rating when mated</td>
<td>Meets wide range of customer application needs. Protects against local dust ingress and submersion to depths of 1m</td>
</tr>
<tr>
<td>Weld-slag and oil-resistant (WSOR) cable used as standard</td>
<td>Resists multiple harsh-environment applications and substances including weld-slag and cutting-oil. Delivers exceptional flexion and torsion performance over a wide operating temperature range</td>
</tr>
</tbody>
</table>

**Applications**

**Industrial Automation**

(Automotive & Material Handling)

- Servo Drives
- Encoders and Resolvers
- Active and Passive I/O Boxes
- Safety Applications

**Motor 6 Pole (5+PE) and 8 Pole (4+3+PE) Faceviews**
Brad® M23 Power Overmolded Cordsets

Specifications

ELECTRICAL

6 Pole (5+PE)
Voltage (max.): 600V (Pollution Degree 3)
800V (Pollution Degree 2)
Current (max.): 26A per pin
(at max. connection cross section);
18A per pin (with standard WSOR cable,
details see cable spec)
Contact Resistance: 3 Ohms max.
Insulation Resistance: >100M Ohms

8 Pole (4+3+PE)
Voltage (max.): 300V / 600V (Pollution Degree 3)
300V / 800V (Pollution Degree 2)
Current (max.): 15A/26A per pin
(at max. connection cross section)
12A/18A per pin (with standard WSOR cable,
details see cable spec)
Contact Resistance: 3 Ohms max.
Insulation Resistance: >100M Ohms

REFERENCE INFORMATION

Packaging: Bag
Mates With: M23 Field Attachable Connectors
Designed In: Millimeters
RoHS: Yes
Glow Wire Compliant: Yes
UL: Pending

PHYSICAL

Housing / Insert: PA
Coupling Nut: Brass
Overmold TPU Black
Contact: Brass
Contact Plating: Gold-plated
Operating Temperature: -25 to +85°C

Standard Cable Specification

<table>
<thead>
<tr>
<th>Poles</th>
<th>mm²</th>
<th>AWG</th>
<th>N° of cond.</th>
<th>O.D.</th>
<th>Jacket</th>
<th>Color</th>
<th>Product Spec</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>(4G1.5+(2x1.5))</td>
<td>(4G AWG16+(2xAWG16))</td>
<td>6 (4+2)</td>
<td>11.10mm</td>
<td>WSOR (shielded)</td>
<td>Orange</td>
<td>PS-155321-001</td>
</tr>
<tr>
<td>8</td>
<td>(4G1.5+2x(2x0.75))</td>
<td>(4G AWG16+2x(2xAWG19))</td>
<td>8 (4+2+2)</td>
<td>12.10mm</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Ordering Information

<table>
<thead>
<tr>
<th>Series No.</th>
<th>Poles</th>
<th>Type</th>
<th>Orientation</th>
<th>Connector End A</th>
<th>Connector End B</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>120480</td>
<td>6</td>
<td>Single-Ended</td>
<td>Straight</td>
<td>Female</td>
<td>---</td>
<td>1, 2, 3, 4, 5, 10, 15 and 20m</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Double-Ended</td>
<td></td>
<td>Male</td>
<td></td>
<td></td>
</tr>
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<td>120480</td>
<td>8</td>
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<td>Male</td>
<td>---</td>
<td></td>
</tr>
</tbody>
</table>

All 6 Pole parts above utilize the shielded orange WSOR cable (4G1.5+(2x1.5)C), other cable options upon request
All 8 Pole parts above utilize the shielded orange WSOR cable (4G1.5+2x(2x0.75)C), other cable options upon request

www.molex.com/link/bradm23.html