

# Brad® M23 Power Overmolded Cordsets

molex®

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

M23 interface with multiple pin-out options

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

Low-profile, pre-assembled overmold and connector

Mitigates wiring and assembly errors while saving valuable time and space

IP67 seal rating when mated

Meets wide range of customer application needs. Protects against local dust ingress and submersion to depths of 1m

Weld-slag and oil-resistant (WSOR) cable used as standard

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



Brad® M23 Power Overmolded Cordset



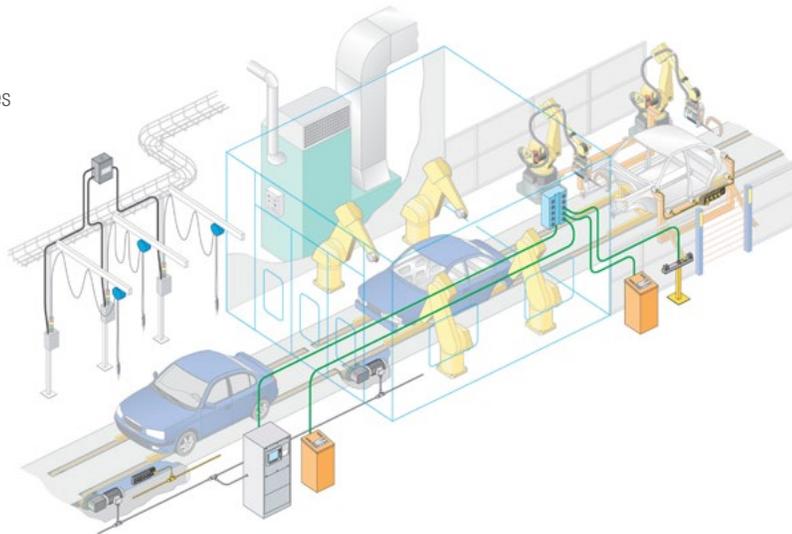
6 Pole (5+PE) and 8 Pole (4+3+PE) Faceviews

## Applications

### Industrial Automation

#### (Automotive & Material Handling)

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



Automotive Factory Assembly Line



Motors



Industrial Automation Assembly Line

# 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

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

## Ordering Information

Series No.	Poles	Type	Orientation	Connector End A	Connector End B	Length
120480	6 (5+PE)	Single-Ended	Straight	Female	---	1, 2, 3, 4, 5, 10, 15 and 20m
		Double-Ended		Male		
	8 (4+3+PE)	Single-Ended		Female	Male	
		Double-Ended		Female	---	
				Male	---	
				Female	Male	

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](http://www.molex.com/link/bradm23.html)