

# Brad® M23 Signal and Power Connectors

# M23

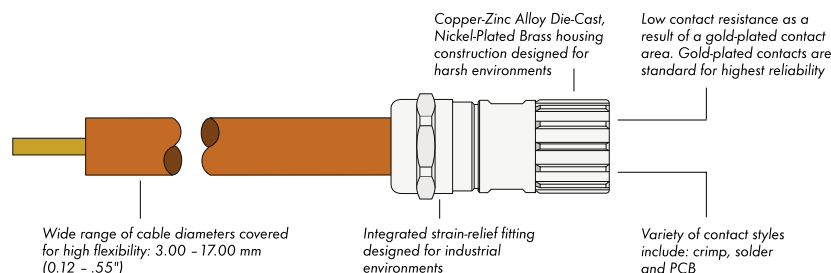
**Brad® M23 connectors and receptacles for signal and power applications meet stringent requirements for reliability and performance in the harshest of industrial environments.**

**M23 Signal Connectors** include field-attachable, male and female cable connectors and receptacles from 6-pole to 19-pole in both straight and right-angled versions. Designed to accommodate a broad range of cable outer diameters and receptacles, M23 connectors guarantee high flexibility in front- and back-mounting applications.

Inserts are available with solder or crimp contacts. The integrated locking clip secures the contacts in the inserts. Assembly and disassembly are easily performed without the need for special assembly tools.

**M23 Power Connectors** are designed for power applications up to 28.0A. Molex offers field-attachable cable connectors and receptacles in 6-pole (5+PE) and 8-pole (4+3+PE) versions. Applying the same modular design as the signal connectors, both pole counts can be used in straight and right-angled versions that are easy to assemble and disassemble with no special tools required.

Crimp contacts are available with different crimp ranges. Female contacts with integrated springs assure exceptional electrical performance with ultimate contact reliability in both signal and power product ranges.



## Features and Benefits

### Signal Connector

- Cable assembly and shielding are performed in one simple step for user-friendly assembly
- Clipped-on, strain-relief insert prevents cable rotation
- Flexible, EMC O-ring guarantees reliable EMC protection
- Radial-encompassing spring contacts assure low plug-in resistance and high-mating cycles
- Integrated locking clip secures the contact in the insert and allows for easy assembly and disassembly

### Power Connector

- Modular design means the same insert is used for all housings
- Integrated locking clip allows for quick assembly and disassembly
- Plug-and-play design allows complete assembly and disassembly without special tools
- Gold-plated contact area features durable, corrosion-resistant plating that maintains low electrical resistance through the mate/unmate cycles
- Integrated strain-relief fitting prevents cable rotation

## Applications

- Servo drives
- Encoders
- Resolvers
- Active and passive I/O boxes
- Safety applications
- Safety switches
- Safety door handles
- Harsh commercial
- Solar panel wiring systems
- Home Run connectivity for MPIS

**Brad®**  
**M23 Signal**  
**Field Attachable Connectors**  
**120230**  
**Female Crimp-Style Contacts**  
**Straight, Right Angle**



**Features and Benefits**

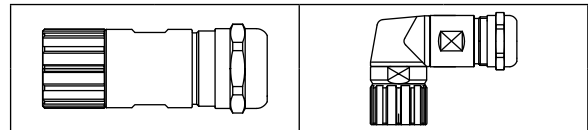
- Cable assembly and shielding in one assembly step
- Clipped-on strain-relief insert prevents cable rotation
- Flexible EMC-O-Ring guarantees reliable EMC-protection
- Radial-encompassing spring contacts assure low plug-in resistance and high-mating cycles
- Integrated locking clip secures the contact in the insert and allows easy assembly and disassembly

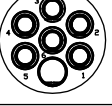
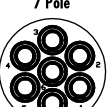
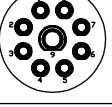
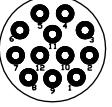
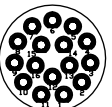


**Physical**

Housing: Copper-Zinc alloy, die-casting  
Housing Surface: Nickel-plated Brass  
Cable Diameter Range: 3.00 to 17.00mm (0.12 to 0.55")  
Inserts (for contacts):  
Thermoplastic polyamid PA 6 (Nylon 6/6), PBT fire protection class V-0  
Contacts: Brass alloy  
Contact Type: Crimp, solder, dip-solder (PCB)  
Contact Surface at Point of Contact:  
Nickel- and Gold-plated (0.25µm)  
Minimum Mating Cycles: >1000  
Seals/O-Rings: Buna-N standard  
Operating Temperature: -40 to +125° C

**Environmental**

Protection: IP67 per EN 60625 (connected)  
NEMA Rating: 4x



Poles	Max. Current per Contact	Max. Voltage	Cable Diameter*	Crimp Range	Female Straight		Female Right Angle	
					Engineering No.	Standard Order No.	Engineering No.	Standard Order No.
6 Pole 	20.0A	300V	7.00-12.00mm (.276-.472")	0.75-2.5mm <sup>2</sup>	KAS6S00-405	120230-0005		
7 Pole 	20.0A	300V	7.00-12.00mm (.276-.472")	0.75-2.5mm <sup>2</sup>	KAS7S00-405	120230-0014		
	8.0A						KAS7S01-405	120230-0072
9 Pole (8+1) 	8=8.0A, 1=20.0A	300V	7.00-12.00mm (.276-.472")	0.34-1.00mm <sup>2</sup> /0.75-2.5mm <sup>2</sup>	KAS9S00-425	120230-0023	KAS9S01-425	120230-0078
12 Pole 	8.0A	300V	7.00-12.00mm (.276-.472")	0.34-1.00mm <sup>2</sup>	KASC500-025	120230-0032	KASC501-025	120230-0084
16 Pole 	8.0A	150V	7.00-12.00mm (.276-.472")	0.34-1.00mm <sup>2</sup>	KASH500-025	120230-0041	KASH501-025	120230-0090
17 Pole 	8.0A	150V	7.00-12.00mm (.276-.472")	0.34-1.00mm <sup>2</sup>	KASJS00-025	120230-0050	KASJS01-025	120230-0096
19 Pole (16+3) 	16=8.0A, 3=10.0A	150V	7.00-12.00mm (.276-.472")	0.34-1.00mm <sup>2</sup> /0.56-1.00mm <sup>2</sup>			KALS01-225	120230-0102

Note: Sales drawings for all standard order numbers are available on [molex.com](http://molex.com)  
\*Cable diameters 3.00-7.00mm and 11.00-17.00mm also available. Contact Molex for more information.

# Brad® M23 Signal Field Attachable Connectors

## 120230 Male Crimp-Style Contacts Straight



### Features and Benefits

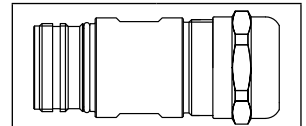
- Cable assembly and shielding in one assembly step
- Clipped-on strain-relief insert prevents cable rotation
- Flexible EMC-O-Ring guarantees reliable EMC-protection
- Radial-encompassing spring contacts assure low plug-in resistance and high-mating cycles
- Integrated locking clip secures the contact in the insert and allows easy assembly and disassembly

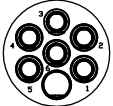
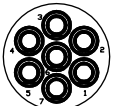
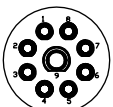
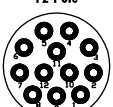


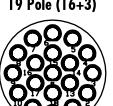
### Physical

Housing: Copper-Zinc alloy, die-casting  
Housing Surface: Nickel-plated Brass  
Cable Diameter Range: 3.00 to 17.00mm (0.12 to 0.55")  
Inserts (for contacts):  
Thermoplastic polyamid PA 6 (Nylon 6/6), PBT fire protection class V-0  
Contacts: Brass alloy  
Contact Type: Crimp, solder, dip-solder (PCB)  
Contact Surface at Point of Contact:  
Nickel- and Gold-plated (0.25µm)  
Minimum Mating Cycles: >1000  
Seals/O-Rings: Buna-N standard  
Operating Temperature: -40 to +125° C

### Environmental

Protection: IP67 per EN 60625 (connected)  
NEMA Rating: 4x



Poles	Max. Current per Contact	Max. Voltage	Cable Diameter*	Crimp Range	Engineering No.	Standard Order No.
6 Pole 	20.0A	300V	7.00-12.00mm (.276-.472")	0.75-2.50mm <sup>2</sup>	KAS6S06-405	120230-0110
7 Pole 	20.0A	300V	7.00-12.00mm (.276-.472")	0.75-2.50mm <sup>2</sup>	KAS7S06-405	120230-0119
9 Pole (8+1) 	8=8.0A, 1=20.0A	300V	7.00-12.00mm (.276-.472")	0.14-1.00mm <sup>2</sup> /0.75-2.50mm <sup>2</sup>	KAS9S06-415	120230-0128
12 Pole 	8.0A	300V	7.00-12.00mm (.276-.472")	0.14-1.00mm <sup>2</sup>	KASCS06-015	120230-0137
16 Pole 	8.0A	150V	7.00-12.00mm (.276-.472")	0.14-1.00mm <sup>2</sup>	KASHS06-015	120230-0146
17 Pole 	8.0A	150V	7.00-12.00mm (.276-.472")	0.14-1.00mm <sup>2</sup>	KASJS06-015	120230-0155
19 Pole (16+3) 	16=8.0A, 3=10.0A	150V	7.00-12.00mm (.276-.472")	0.14-1.00mm <sup>2</sup> / 0.14-1.00mm <sup>2</sup>	KASLS06-115	120230-0164

Note: Sales drawings for all standard order numbers are available on [molex.com](http://molex.com)  
\*Cable diameters 3.00-7.00mm and 11.00-17.00mm also available. Contact Molex for more information.

# Brad® M23 Signal Receptacles

## 120231 Female Crimp-Style Contacts Straight Front Panel Mount



### Features and Benefits

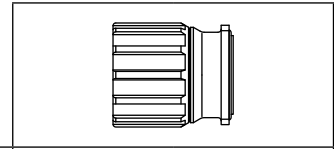
- Cable assembly and shielding in one assembly step
- Clipped-on strain-relief insert prevents cable rotation
- Flexible EMC-O-Ring guarantees reliable EMC-protection
- Radial-encompassing spring contacts assure low plug-in resistance and high-mating cycles
- Integrated locking clip secures the contact in the insert and allows easy assembly and disassembly

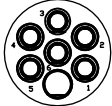
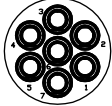
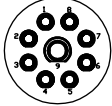
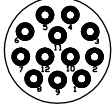
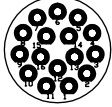
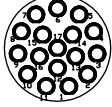

### Physical

Housing: Copper-Zinc alloy, die-casting  
 Housing Surface: Nickel-plated Brass  
 Cable Diameter Range: 3.00 to 17.00mm (0.12 to 0.55")  
 Inserts (for contacts):  
 Thermoplastic polyamid PA 6 (Nylon 6/6), PBT fire protection class V-0  
 Contacts: Brass alloy  
 Contact Type: Crimp, solder, dip-solder (PCB)  
 Contact Surface at Point of Contact:  
 Nickel- and Gold-plated (0.25µm)  
 Minimum Mating Cycles: >1000  
 Seals/O-Rings: Buna-N standard  
 Operating Temperature: -40 to +125° C

### Environmental

Protection: IP67 per EN 60625 (connected)  
 NEMA Rating: 4x



Poles	Max. Current per contact	Max. Voltage	Mounting Type	Mounting Thread	Crimp Range	Straight	
						Engineering No.	Standard Order No.
6 Pole 	20.0A	300V	Flange-Mount	Flange 4x0 3.2mm	0.75-2.5mm <sup>2</sup>	KRS6G20-403	120231-0002
7 Pole 	20.0A	300V	Flange-Mount	Flange 4x0 3.2mm	0.75-2.5mm <sup>2</sup>	KRS7G20-403	120231-0005
9 Pole (8+1) 	8 = 8.0A 1 = 20.0A	300V	Flange-Mount	Flange 4x0 3.2mm	0.54-2.1mm <sup>2</sup> / 0.75-2.5mm <sup>2</sup>	KRS9G20-423	120231-0008
12 Pole 	8.0A	300V	Flange-Mount	Flange 4x0 3.2mm	0.34-1.0mm <sup>2</sup>	KRSG20-023	120231-0011
16 Pole 	8.0A	150V	Flange-Mount	Flange 4x0 3.2mm	0.34-1.0mm <sup>2</sup>	KRSHG20-023	120231-0014
17 Pole 	8.0A	150V	Flange-Mount	Flange 4x0 3.2mm	0.34-1.0mm <sup>2</sup>	KRSJG20-023	120231-0017
19 Pole (16+3) 	16 = 8.0A 3 = 10.0A	150V	Flange-Mount	Flange 4x0 3.2mm	0.34-1.0mm <sup>2</sup> / 0.56-1.0mm <sup>2</sup>	KRSLG20-223	120231-0020

Note: Sales drawings for all standard order numbers are available on [molex.com](http://molex.com)

# Brad® M23 Signal Receptacles

120231

Male Crimp-Style Contacts  
Straight, Right Angle  
Front Panel Mount



### Features and Benefits

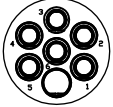
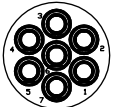
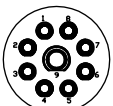
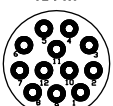
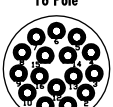
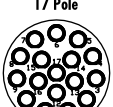
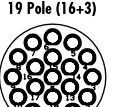
- Cable assembly and shielding in one assembly step
- Clipped-on strain-relief insert prevents cable rotation
- Flexible EMC-O-Ring guarantees reliable EMC-protection
- Radial-encompassing spring contacts assure low plug-in resistance and high-mating cycles
- Integrated locking clip secures the contact in the insert and allows easy assembly and disassembly

### Physical

Housing: Copper-Zinc alloy, die-casting  
 Housing Surface: Nickel-plated Brass  
 Cable Diameter Range: 3.00 to 17.00mm (0.12 to 0.55")  
 Contact Inserts:  
 Thermoplastic Polyamid PA 6 (Nylon 6/6),  
 PBT fire protection class V-0  
 Contacts: Brass alloy  
 Contact Type: Crimp, solder, dip-solder (PCB)  
 Contact Surface at Point of Contact:  
 Nickel- and Gold-plated (0.25µm)  
 Minimum Mating Cycles: >1000  
 Seals/O-Rings: Buna-N standard  
 Operating Temperature: -40 to +125° C

### Environmental

Protection: IP67 per EN 60625 (connected)  
 NEMA Rating: NEMA 4x

Poles (Male View)	Max. Current per Contact	Max. Voltage	Mounting Type	Mounting Thread	Crimp Range	Straight		Right Angle*	
						Engineering No.	Standard Order No.	Engineering No.	Standard Order No.
6 Pole 	20.0A	300V	Flange Mount	Flange 4x3.20mm	0.75-2.50mm <sup>2</sup>	KRS6G26-4031	120231-0023	KRS6G27-4012	120231-0044
7 Pole 	20.0A	300V	Flange Mount	Flange 4x3.20mm	0.75-2.50mm <sup>2</sup>	KRS7G26-4031	120231-0026	KRS7G27-4012	120231-0047
9 Pole (8+1) 	8 = 8.0A 1 = 20.0A	300V	Flange Mount	Flange 4x3.20mm	0.14-1.00mm <sup>2</sup> / 0.75-2.50 mm <sup>2</sup>	KRS9G26-4131	120231-0029	KRS9G27-4112	120231-0050
12 Pole 	8.0A	300V	Flange Mount	Flange 4x3.20mm	0.14-1.00mm <sup>2</sup> / 0.75-2.50 mm <sup>2</sup>	KRSCG26-0131	120231-0032	KRSCG27-0112	120231-0053
16 Pole 	8.0A	150V	Flange Mount	Flange 4x3.20mm	0.14-1.00mm <sup>2</sup> / 0.75-2.50 mm <sup>2</sup>	KRSHG26-0131	120231-0035	KRSHG27-0112	120231-0056
17 Pole 	8.0A	150V	Flange Mount	Flange 4x3.20mm	0.14-1.00mm <sup>2</sup> / 0.75-2.50 mm <sup>2</sup>	KRSJG26-0131	120231-0038	KRSJG27-0112	120231-0059
19 Pole (16+3) 	16 = 18.0A 3 = 10.0A	150V	Flange Mount	Flange 4x3.20mm	0.14-1.00mm <sup>2</sup> /0.14-1.00mm <sup>2</sup>	KRSLG26-1131	120231-0041	KRSLG27-1112	120231-0062

Note: Sales drawings for all standard order numbers are available on [molex.com](http://molex.com)

\*Receptacle flange mount rotatable

# Brad® M23 Signal Receptacles

## 120231 Male Crimp-Style Contacts Straight Back Panel Mount



### Features and Benefits

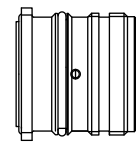
- Cable assembly and shielding in one assembly step
- Clipped-on strain-relief insert prevents cable rotation
- Flexible EMC-O-Ring guarantees reliable EMC-protection
- Radial-encompassing spring contacts assure low plug-in resistance and high-mating cycles
- Integrated locking clip secures the contact in the insert and allows easy assembly and disassembly

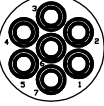
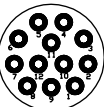
### Physical

Housing: Copper-Zinc alloy, die-casting  
 Housing Surface: Nickel-plated Brass  
 Cable Diameter Range: 3.00 to 17.00mm (0.12 to 0.55")  
 Contact Inserts:  
 Thermoplastic Polyamid PA 6 (Nylon 6/6),  
 PBT fire protection class V-0  
 Contacts: Brass alloy  
 Contact Type: Crimp, solder, dip-solder (PCB)  
 Contact Surface at Point of Contact:  
 Nickel- and Gold-plated (0.25µm)  
 Minimum Mating Cycles: >1000  
 Seals/O-Rings: Buna-N standard  
 Operating Temperature: -40 to +125° C

### Environmental

Protection: IP67 per EN 60625 (connected)  
 NEMA Rating: NEMA 4x



Poles (Male View)	Max. Current per Contact	Max. Voltage	Mounting Type	Mounting Thread	Crimp Range	Straight	
						Engineering No.	Standard Order No.
6 Pole 	20.0A	300V	Flange Mount	Flange 4xM3	0.75-2.50mm <sup>2</sup>	KRS6G46-4041	120231-0066
7 Pole 	20.0A	300V	Flange Mount	Flange 4xM3	0.75-2.50mm <sup>2</sup>	KRS7G46-4041	120231-0070
9 Pole (8+1) 	8 = 8.0A 1 = 20.0A	300V	Flange Mount	Flange 4xM3	0.14-1.00mm <sup>2</sup> / 0.75-2.50 mm <sup>2</sup>	KRS9G46-4141	120231-0074
12 Pole 	8.0A	300V	Flange Mount	Flange 4xM3	0.14-1.00mm <sup>2</sup>	KRSCG46-0141	120231-0078
16 Pole 	8.0A	150V	Flange Mount	Flange 4xM3	0.14-1.00mm <sup>2</sup>	KRSHG46-0141	120231-0082
17 Pole 	8.0A	150V	Flange Mount	Flange 4xM3	0.14-1.00mm <sup>2</sup>	KRSJG46-0141	120231-0086
19 Pole (16+3) 	16 = 18.0A 3 = 10.0A	150V	Flange Mount	Flange 4xM3	0.14-1.00mm <sup>2</sup> / 0.14-1.00mm <sup>2</sup>	KRSLG46-1141	120231-0090

Note: Sales drawings for all standard order numbers are available on [molex.com](http://molex.com)

# Brad® M23 Signal Receptacles

120231

Male Crimp-Style Contacts  
Straight  
Back Panel Mount



### Features and Benefits

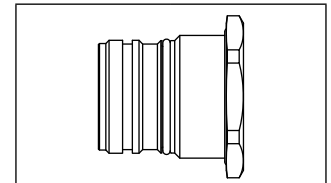
- Cable assembly and shielding in one assembly step
- Clipped-on strain-relief insert prevents cable rotation
- Flexible EMC-O-Ring guarantees reliable EMC-protection
- Radial-encompassing spring contacts assure low plug-in resistance and high-mating cycles
- Integrated locking clip secures the contact in the insert and allows easy assembly and disassembly

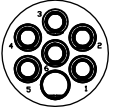
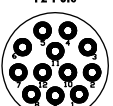
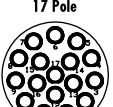
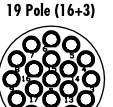
### Physical

Housing: Copper-Zinc alloy, die-casting  
 Housing Surface: Nickel-plated Brass  
 Cable Diameter Range: 3.00 to 17.00mm (0.12 to 0.55")  
 Contact Inserts:  
 Thermoplastic Polyamid PA 6 (Nylon 6/6),  
 PBT fire protection class V-0  
 Contacts: Brass alloy  
 Contact Type: Crimp, solder, dip-solder (PCB)  
 Contact Surface at Point of Contact:  
 Nickel- and Gold-plated (0.25µm)  
 Minimum Mating Cycles: >1000  
 Seals/O-Rings: Buna-N standard  
 Operating Temperature: -40 to +125° C

### Environmental

Protection: IP67 per EN 60625 (connected)  
 NEMA Rating: NEMA 4x



Poles (Male View)	Max. Current per Contact	Max. Voltage	Mounting Type	Mounting Thread	Crimp Range	Straight	
						Engineering No.	Standard Order No.
6 Pole 	20.0A	300V	Flange Mount	Single Hole	0.75-2.50mm <sup>2</sup>	KRS6P46-400	120231-0094
7 Pole 	20.0A	300V	Flange Mount	Single Hole	0.75-2.50mm <sup>2</sup>	KRS7P46-400	120231-0098
9 Pole (8+1) 	8 = 8.0A 1 = 20.0A	300V	Flange Mount	M25x1.5	0.14-1.00mm <sup>2</sup> / 0.75-2.50 mm <sup>2</sup>	KRS9P46-410	120231-0102
12 Pole 	8.0A	300V	Flange Mount	M25x1.5	0.14-1.00mm <sup>2</sup>	KRSCP46-010	120231-0106
16 Pole 	8.0A	150V	Flange Mount	M25x1.5	0.14-1.00mm <sup>2</sup>	KRSHP46-010	120231-0110
17 Pole 	8.0A	150V	Flange Mount	M25x1.5	0.14-1.00mm <sup>2</sup>	KRSJP46-010	120231-0114
19 Pole (16+3) 	16 = 18.0A 3 = 10.0A	150V	Flange Mount	M25x1.5	0.14-1.00mm <sup>2</sup> / 0.14-1.00mm <sup>2</sup>	KRSLP46-110	120231-0118

Note: Sales drawings for all standard order numbers are available on [molex.com](http://molex.com)  
 \*Receptacle flange mount rotatable

# Brad® M23 Signal Single-Ended Molded Cordsets

**120094**

**Female Straight  
Female Right Angle-to-Pigtail**



### Features and Benefits

- 12- and 19-pole versions available
- IP67 rated for harsh environments
- Offered with PUR cables for moderate flexing and for environments encountering cutting fluids and oils

### Electrical

Voltage: 63V AC/DC max.  
Current: 6.0A max.

### Mechanical

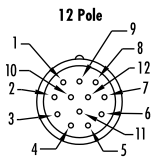
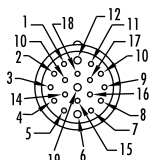
Wire Size: 18/22 AWG

### Physical

Connector Body: TPU  
Cable Jacket: PUR  
Keyway: None  
Connector End A: M23  
Connector End B: Pigtail  
Contact: Copper with Gold over Nickel plating  
Coupling Nut: Nickel-plated Brass  
Cable Length: 10.0m (32.81')  
Cable Jacket Color: Black  
Operating Temperature: -25 to +90° C

### Environmental

Protection: IP67  
NEMA Rating: NEMA 6

Poles (Female View)	Cable Diameter	Female Straight		Female Right Angle-to-Pigtail	
		Engineering No.	Standard Order No.	Engineering No.	Standard Order No.
		 <p>12 Pole</p>	9.40mm (.370")	K02100P80M100	120094-5022
 <p>19 Pole</p>	11.43mm (.450")	K03000P80M100	120094-5003	K03001P80M100	120094-0044

Note: Sales drawings for all standard order numbers are available on [molex.com](http://molex.com)

**Configuration Code\***  
Build-a-Part Number

	Length	Code
Meters	2	M020
	5	M050
	10	M100

K02100P80M100

\*Once an engineering number is created using the configuration code, consult Molex tech support for information regarding any part numbers.



# Brad® M23 Power Field Attachable Connectors

**120233**

**Female Crimp-Style Contacts  
Straight, Right Angle**



### Features and Benefits

- Modularity—same insert for all housings
- The integrated locking clip allows quick assembly
- Complete assembly and disassembly without special tools
- Lowest contact resistance as a result of a Gold-plated contact area
- Integrated strain-relief fitting

### Physical

Housing: Copper-Zinc alloy, die-casting

Housing Surface: Nickel-plated Brass

Contact Inserts:

Thermoplastic Polyamid PA 6 (Nylon 6/6),  
PBT fire protection class 94V-0

Contacts: Brass alloy

Type of Contacts: Crimp

Contact Surface at Point of Contact:

Nickel- and Gold-plated (0.25µm)

Minimum Mating Cycles: >1000

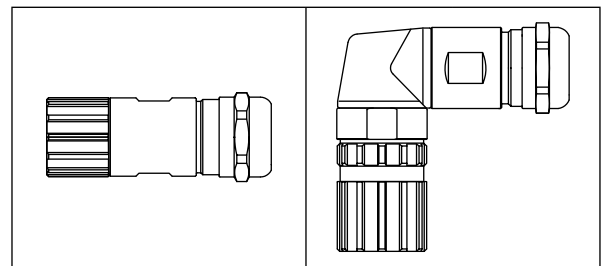
Seals/O-Rings: Buna-N standard

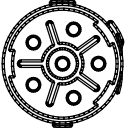
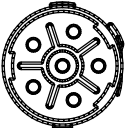
Operating Temperature: -40 to 125° C

### Environmental

Protection: IP67 per EN 60625 (connected)

NEMA Rating: NEMA 4x



Poles (Female View)	Max. Current per Contact	Max. Voltage	Crimp Range	Female Straight		Female Right Angle	
				Engineering No.	Standard Order No.	Engineering No.	Standard Order No.
6 (5+PE) 	28.0A	800V	0.75-2.50mm <sup>2</sup>	KAP6S00-105	120233-0001	KAP6S01-105	120233-0009
8 (4+3+PE) 	4=8.0A, 4=28.0A	4=300V, 4=800V	0.25-1.00mm <sup>2</sup> /0.75-2.5mm <sup>2</sup>	KAP8S00-115	120233-0005	KAP8S01-115	120233-0013

Note: Sales drawings for all standard order numbers are available on [molex.com](http://molex.com)

# Brad® M23 Power Field Attachable Connectors

## 120233 Male Crimp-Style Contacts Straight



### Features and Benefits

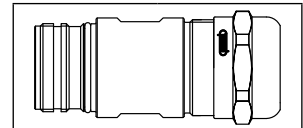
- Modularity—same insert for all housings
- The integrated locking clip allows quick assembly
- Complete assembly and disassembly without special tools
- Lowest contact resistance as a result of a Gold-plated contact area
- Integrated strain-relief fitting

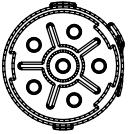
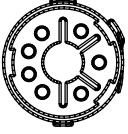
### Physical

Connector Body: Nylon  
Keyway: None  
Contact: Brass with Gold over Nickel plating  
Operating Temperature: -40 to +125° C

### Environmental

Protection: IP67



Poles	Max. Current per Contact	Max. Voltage	Cable Diameter	Crimp Range	Engineering No.	Standard Order No.
6 Pole (5+PE) 	28.0A	800V	7.00-12.00mm (.276-.472")	0.25-1.00mm	KAP6S06-105	120233-0017
8 Pole (4+3+PE) 	4 = 8.0A 4 = 28.0A	4 = 300V 4 = 800V	7.00-12.00mm (.276-.472")	0.75-2.50mm	KAP8S06-115	120233-0021

Note: Sales drawings for all standard order numbers are available on [molex.com](http://molex.com)

# Brad® M23 Power Connectors Receptacles

**120234**

**Female Crimp-Style Contacts  
Straight  
Front Panel Mount**



### Features and Benefits

- Modularity—same insert for all housings
- The integrated locking clip allows quick assembly
- Complete assembly and disassembly without special tools
- Lowest contact resistance as a result of a Gold-plated contact area
- Integrated strain-relief fitting

### Physical

Housing: Copper-Zinc alloy, die-casting

Housing Surface: Nickel-plated Brass

Inserts (for contacts):

Thermoplastic polyamid PA 6 (Nylon 6/6), PBT fire protection class 94V-0

Contacts: Brass alloy

Type of Contacts: Crimp

Contact Surface at Point of Contact:

Nickel- and Gold-plated (0.25µm)

Minimum Mating Cycles: >1000

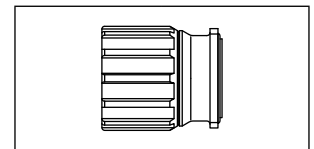
Seals/O-Rings: Buna-N standard

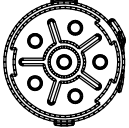
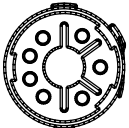
Operating Temperature: -40 to 125° C

### Environmental

Protection: IP67 per EN 60625 (connected)

NEMA Rating: 4x



Poles	Max. Current per Contact	Max. Voltage	Panel Mount Style	Mounting Type	Mounting Thread	Crimp Range	Straight	
							Engineering No.	Standard Order No.
6 Pole (5+PE) 	28.0A	800V	Front Panel	Flange-Mount	Flange 4x0 3.2mm	0.75-2.5mm <sup>2</sup>	KRP6G00-103	120234-0001
8 Pole (4+3+PE) 	4=8.0A, 4=28.0A	4=300V, 4=800V	Front Panel	Flange-Mount	Flange 4x0 3.2mm	0.25-1.00mm <sup>2</sup> / .75-2.5mm <sup>2</sup>	KRP8G00-113	120234-0003

Note: Sales drawings for all standard order numbers are available on [molex.com](http://molex.com)

# Brad® M23 Power Receptacles

## 120234

### Male Crimp-Style Contacts Straight, Right Angle Front, Back Panel Mount



#### Features and Benefits

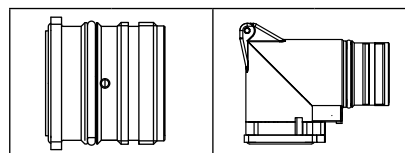
- Modularity—same insert for all housings
- The integrated locking clip allows quick assembly
- Complete assembly and disassembly without special tools
- Lowest contact resistance as a result of a Gold-plated contact area
- Integrated strain-relief fitting

#### Physical

Housing: Copper-Zinc alloy, die-casting  
 Housing Surface: Nickel-plated Brass  
 Inserts (for contacts): Thermoplastic polyamid PA 6 (Nylon 6/6), PBT fire protection class 94V-0  
 Contacts: Brass alloy  
 Type of Contacts: Crimp  
 Contact Surface at Point of Contact: Nickel- and Gold-plated (0.25µm)  
 Minimum Mating Cycles: >1000  
 Seals/O-Rings: Buna-N standard  
 Operating Temperature: -40 to 125° C

#### Environmental

Protection: IP67 per EN 60625 (connected)  
 NEMA Rating: 4x



Poles	Max. Current per Contact	Max. Voltage	Panel Mount Style	Mounting Type	Mounting Thread	Crimp Range	Rotatable	Straight		Right Angle	
								Engineering No.	Standard Order No.	Engineering No.	Standard Order No.
6 Pole (5+PE) 	28.0A	800V	Front Panel	Flange-Mount	Flange 4xØ 3.20mm	0.75-2.50mm <sup>2</sup>	No	KRP6G06-103	120234-0005		
8 Pole (4+3+PE) 	4=8.0A, 4=28.0A	4=300V, 4=800V	Front Panel	Flange-Mount	Flange 4xØ 3.20mm	0.25-1.00mm <sup>2</sup> / 0.75-2.5mm <sup>2</sup>		KRP8G06-113	120234-0007		
6 Pole (5+PE) 	28.0A	800V	Front Panel	Flange 25.00 x 25.00mm	Flange 4xØ 2.70mm	0.75-2.50mm <sup>2</sup>	Yes			KRP6G07-1012	120234-0009
8 Pole (4+3+PE) 	4=8.0A, 4=28.0A	4=300V, 4=800V	Front Panel	Flange 25.00 x 25.00mm	Flange 4xØ 2.70mm	0.25-1.00mm <sup>2</sup> / 0.75-2.5mm <sup>2</sup>				KRP8G07-1112	120234-0011
6 Pole (5+PE) 	28.0A	800V	Front Panel	Flange 28.00 x 28.00mm	Flange 4xØ 3.20mm	0.75-2.50mm <sup>2</sup>				KRP6G07-1052	120234-0013
8 Pole (4+3+PE) 	4=8.0A, 4=28.0A	4=300V, 4=800V	Front Panel	Flange 28.00 x 28.00mm	Flange 4xØ 3.20mm	0.25-1.00mm <sup>2</sup> / 0.75-2.5mm <sup>2</sup>				KRP8G07-1152	120234-0015
6 Pole (5+PE) 	28.0A	800V	Back Panel	Flange-Mount	Flange 4xØ 3.20mm	0.75-2.50mm <sup>2</sup>	No	KRP6G46-1031	120234-0017		
8 Pole (4+3+PE) 	4=8.0A, 4=28.0A	4=300V, 4=800V	Back Panel	Flange-Mount	Flange 4xØ 3.20mm	0.25-1.00mm <sup>2</sup> / 0.75-2.5mm <sup>2</sup>		KRP8G46-1131	120234-0019		
6 Pole (5+PE) 	28.0A	800V	Back Panel	Single Hole Mount	M25 x 1.50mm	0.75-2.50mm <sup>2</sup>		KRP6P46-100	120234-0021		
8 Pole (4+3+PE) 	4=8.0A, 4=28.0A	4=300V, 4=800V	Back Panel	Single Hole Mount	M25 x 1.50mm	0.25-1.00mm <sup>2</sup> / 0.75-2.5mm <sup>2</sup>		KRP8P46-110	120234-0023		

Note: Sales drawings for all standard order numbers are available on [molex.com](http://molex.com)

# Brad® M23 Power and Signal Tools and Accessories

120155



Description	Power/Signal	Gender	Engineering No.	Standard Order No.
Crimp Tool	Power		KP-TOOL-01	120155-0017
	Signal		KS-TOOL-01	120155-0012
Locator	Power	Male	KP-LOC-01	120155-0018
		Female	KP-LOC-02	120155-0019
	Signal	Male	KS-LOC-01	120155-0013
		Female	KS-LOC-02	120155-0014
Assembly Tool	Signal		KS-TOOL-02	120155-0015
Adapter Flange	Signal/Power		KA-FLANGE	120155-0016