

Brad® Mini-Change® Connectors

Mini

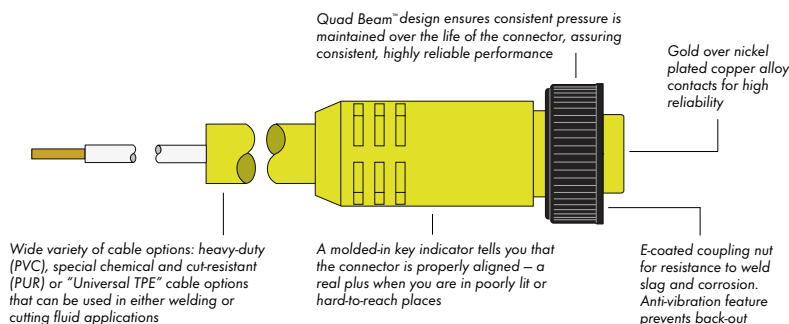
The Brad® Mini-Change® connector family from Molex is the standard by which all industrial sealed connectors are measured.

With the introduction of the Mini-Change in 1968, Brad pioneered miniature connectors by offering the first quick-connect alternative to hardwiring. Today, Brad connectors from Molex continue to be recognized as the industry's leading connectors for their quality, durability and the widest selection in the market.

The Brad Mini-Change connector family from Molex includes molded cordsets and receptacles available in 2- through 12-pole and 19-pole configurations, straight or right angle. Field-installed connectors are available in 3-, 4- and 5-pole configurations. Hardware choices include epoxy-coated zinc die-cast, stainless steel and nylon. A large selection of custom configurations is also available.

To ensure a reliable, low-resistance connection, Molex uses the patented Quad Beam™ female contact with gold-over-nickel plating and a stainless steel sleeve. The sealed construction provides IP67 protection. An anti-vibration feature prevents the coupler from loosening, even under extreme conditions.

Brad Mini-Change connectors from Molex continue to evolve, providing the best, most cost-effective solution for tough connector applications.



Features and Benefits

- Patented, Quad Beam™ socket contact with stainless steel sleeve maintains consistent pressure on the male pin to ensure optimum conductivity
- Gold-over-nickel-plated contacts are corrosion-resistant and help maintain low electrical resistance through high mate/unmate cycles
- Molded key indicator allows for quick and easy alignment and mating of the connector
- Integral strain relief provides 100 pounds minimum cable strain relief and radiates stress in side-loaded conditions
- Sealed to an IP67 rating to prevent the entry of water during temporary submersion

Applications

- 24V DC and 120V AC auxiliary power distribution on automated equipment
- Commercial and industrial lighting
- Industrial heaters
- Controls on Power Grid switchgear
- Power connector to WiLAN and WiMax transmitters
- Power connector to Smart Grid receiver stations
- Power connector to street light accessories
- Sump pump power and control
- Limit switches
- Proximity switches
- Photoelectric sensors
- Load cells
- Solenoid operated valves
- Valve position indicators
- Test equipment
- Portable/mobile light towers
- Solar panel power systems (from inverter to control panel)

Brad® Mini-Change® A-Size Single-Ended Cordsets

130006

Male

Straight, Right Angle
Internal Thread



Features and Benefits

- Low-resistance contact design with Gold over Nickel plating
- Epoxy-coated coupling nut is corrosion and weld slag resistant
- Cable is oil, water and abrasion resistant

Reference Information

UL File No.: E152210
CSA File No.: LR6837

Electrical

Voltage: 600V AC/DC

Mechanical

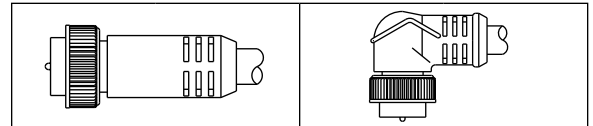
Wire Size: 16 AWG
Cable Type: UL Type STOOW

Physical

Connector Face: PVC
Connector Body: PVC
Contact: Brass with Gold over Nickel plating
Coupling Nut: Black epoxy-coated Zinc
Cable: UL Type STOOW, 105C
Hard Service Cord (A01)
Cable Jacket: PVC
Cable Jacket Color: Yellow
Operating Temperature: -20 to +105° C

Environmental

Protection: IP67



Poles (Male View)	Current	Cable Type	Cable Jacket (Cable Code)	Wire Size AWG	Length	Male Straight		Male Right Angle	
						Engineering No.	Standard Order No.	Engineering No.	Standard Order No.
2 Pole 1 - White 2 - Black	13.0A	STOOW	PVC (A01)	16	6'	102002A01F060	130006-0159		
3 Pole 1 - Green/Yellow-gnd 2 - Black 3 - White	13.0A	STOOW	PVC (A01)	16	6'	103002A01F060	130006-0534	103003A01F060	130006-0647
4 Pole 1 - Black 2 - White 3 - Red 4 - Green/Yellow-gnd	10.0A	STOOW	PVC (A01)	16	6'	104002A01F060	130006-0995	104003A01F060	130006-1087
5 Pole 1 - Red/White 4 - Red/Yel 2 - Red 5 - Red/Blk 3 - Green/Yellow-gnd	8.0A	STOOW	PVC (A01)	16	6'	105002A01F060	130006-1438	105003A01F060	130006-1518
6 Pole 1 - White 4 - Orange 2 - Red 5 - Black 3 - Green/Yellow-gnd 6 - Blue	8.0A	STOOW	PVC (A01)	16	6'	106002A01F060	130006-1675		

Note: Sales drawings for all standard order numbers are available on molex.com

Configuration Code*
Build-a-Part Number

Length	Code
3	F030
6	F060
12	F120
20	F200

102002A01F0601

Coupling Nut Option
Stainless Steel 1
Nonmetallic 2

Cable Code
Orientation Code
Straight male 002
Right angle male 003

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