

Power Products

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Power Ultra products

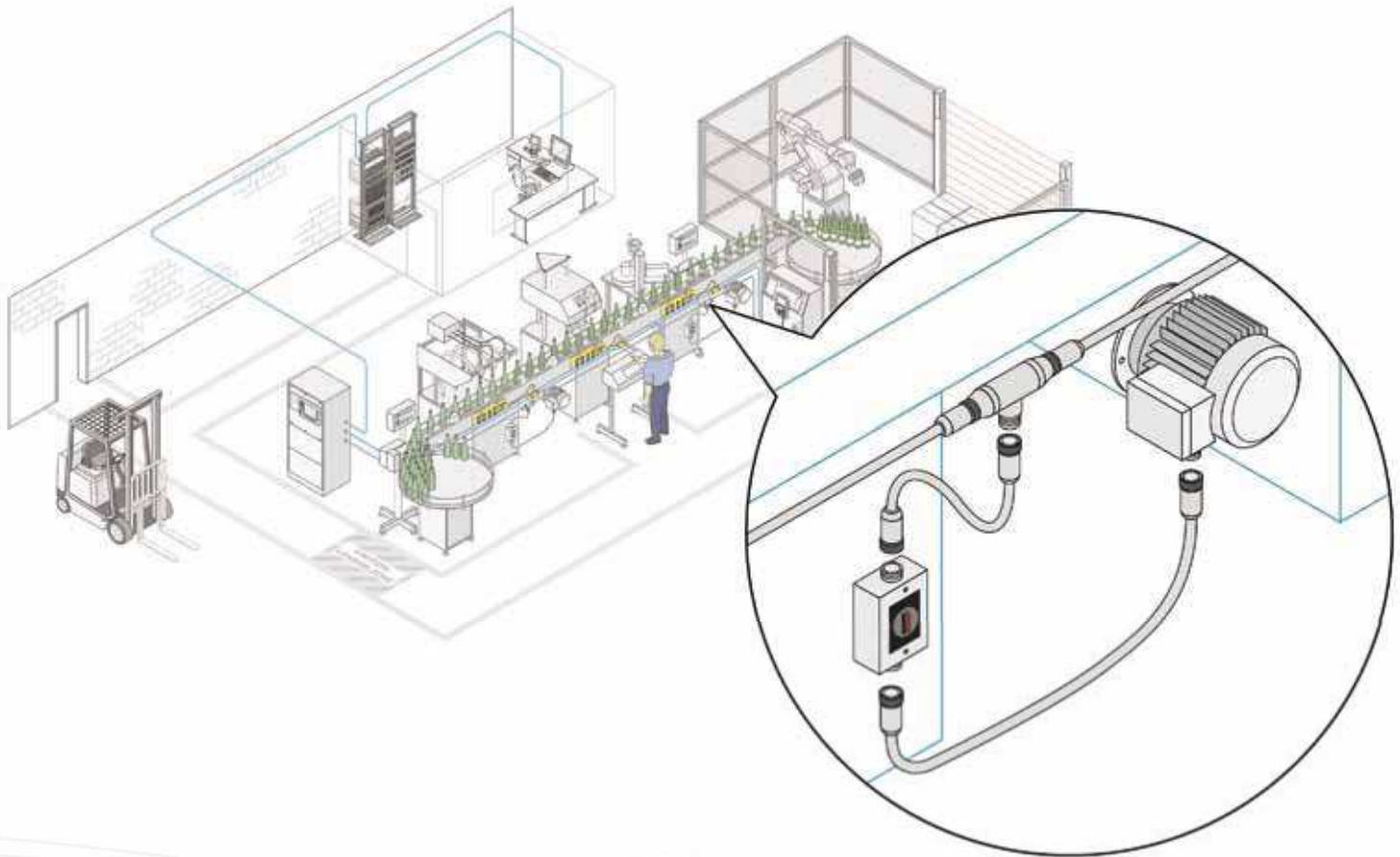
Pipe and wire is how we used to distribute power to machine outputs. Today, more design engineers are choosing Brad® Power modular, flexible power wiring systems from Molex. Beginning with machine assembly, Brad® power solutions save money and time.



Modular power for everyone

Brad® Power modular components make installation faster, easier and more reliable. Where multiple machines are involved, assembling the systems is consistent and repeatable.

Compared to traditional hard wiring, Brad® Power solutions provide reduced labor costs, simplified connections, increased plant flexibility and reduced commission time. They also deliver rapid return on capital equipment investments.



Cut your total installed cost

Brad® quick-connect, modular wiring solutions install easily and make commissioning simple. In fact, electrical installation and commissioning times can be slashed by as much as 80%. And that can translate into a total installed cost (TIC) reduction of 20% to 50% vs. conventional hard-wiring thanks to:

- No specialized tools
- No pipe bending
- No wire pulling
- No conduit or raceways required
- Reduced labor time
- Minimized testing and troubleshooting

Reduce your total cost of ownership

The Brad® Power system delivers a higher return on investment (ROI) because the total cost of ownership (TCO) continues to drop the longer the system is owned, used and maintained. Benefits include:

- Increased machine uptime
- Faster, easier maintenance of failed machine devices
- Simplified scalability
- Parts that can be reused over and over

NFPA 79-2012 Compliant

It took a 2002 electrical code revision (and further refinements in 2007 and 2012) to enable system designers and users to experience this practical alternative to hard-wired power distribution and motor control on industrial equipment and machine tools. Compare the codes:

	1997 Edition	2012 Edition
Conductor Sizing for Power Circuits	Section 15.3 (a): Conductors shall not be smaller than 14 AWG.	Section 12.6.1 Conductors shall not be smaller than 14 AWG for power circuits unless otherwise permitted in 12.6.1.1 (16 AWG) and 12.6.1.2 (18 AWG).
Wiring Methods and Practices Regarding Connectors	Section 16.1.4: Conductors and cables shall be run without splices from terminal to terminal.	Section 13.1.2.3 Factory-applied connectors, molded onto cables, shall be permitted. Such connectors shall not be considered as splices or joints.
Wiring Methods and Practices Regarding Exposed Cable	Section 16.3.1: Conductors and their connections, external to the control panel, shall be totally enclosed in suitable raceways or enclosures.	Section 13.1.6.1 Exposed cables, installed along the structure of the equipment or system or in the chases of the machinery, shall be permitted. Exposed cables shall be installed to closely follow the surface and structural members of the machinery.

UL 2237 (PVVA) Listed

Brad® Power products are designed to interconnect high-energy devices, such as motors, heaters, and pumps to their power source. In such applications, there is a high potential for extreme electrical transients to occur during a fault condition before the over-current protection device (i.e. fuse or breaker) trips. Brad Power

products have been tested and proven to withstand these fault conditions under UL 2237.

UL 2237 covers interconnect systems intended for use in power branch circuits, including motor branch circuits in industrial machinery.

The UL 2237 Listing assures that our wiring system integrity and safety is preserved, even after a fault has occurred in the installation. Just reset, or eliminate the fault condition, and continue operating.

Applications

Power distribution and motor control in:

- Complex automated assembly equipment
- Material handling and conveying equipment
- Food/beverage processing and packaging
- Pharmaceutical process equipment
- Petrochemical plants

Design and Quality

- UL 2237 (PVVA) approved
- Rugged, factory-applied connectors over-molded
- Strong, crush-resistant TC-ER cable
- Convenient, field attachable connectors

A Complete System

There are no holes in the Brad Power solution. It's all here, including: receptacles, trunk/feeder cordsets and connectors, drop/branch cordsets and connectors, tees, reducers, and accessories (locking clips, closure caps, field attachable connectors, etc.). Stainless steel hardware is available as an option.

Machine builders will appreciate the increased worker productivity, reduced manufacturing costs, quicker time to market and improved profit margins. System designers, integrators and plant engineers will enjoy the faster commissioning times,

lower installation costs and simplified maintenance and repair. And everyone will appreciate the fact that Brad Power solutions are from Molex, a leading single-source supplier of interconnect products. Backed by a firm commitment to research and development, the Molex team of skilled experts is passionate about designing, developing and distributing innovative connection solutions for you.

Brad® Power Trunk/Feeder Single-Ended Cordsets

130063

**Female
Straight, Right Angle
Threaded**



Features and Benefits

- Meets NFPA 79-2012 standards for motor and branch circuits
- UL 2237 (PVVA) listed

Reference Information

UL File No.: E258922

Electrical

Voltage: 600V AC/DC

Mechanical

Wire Size: 10 AWG

Physical

Connector Face: PVC

Connector Body: PVC

Cable: A48—UL Type ST00W/TC-ER

Cable Jacket: PVC

Cable Jacket Color: Gray

Contact: Copper alloy with Gold over Nickel plating

Coupling Nut: Anodized Aluminum

Operating Temperature: -20 to +105° C

Environmental

Protection: IP67, IP68 and IP69K (with Stainless Steel)

Poles (Female View)	Current	Keyway	Cable Jacket (Cable Code)	Wire Size AWG	Length	Female Straight		Female Right Angle	
						Engineering No.	Standard Order No.	Engineering No.	Standard Order No.
3 Pole 1 - Black 3 - White 2 - Green/Yellow-gnd	32.0A	Single	PVC (A48)	10	2.0m	C03000A48M020	130063-0003	C03001A48M020	130063-0037
3 Pole 1 - Black 3 - White 2 - Green/Yellow-gnd		Alternate				C03100A48M020	130063-0056	C03101A48M020	130063-0199
4 Pole 1 - Black 4 - White 2 - Green/Yellow-gnd 3 - Red	32.0A	Single	PVC (A48)	10	2.0m	C04000A48M020	130063-0089	C04001A48M020	130063-0135
4 Pole 1 - Black 4 - White 2 - Green/Yellow-gnd 3 - Red		Alternate				C04100A48M020	130063-0181	C04101A48M020	130063-0183

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

Configuration Code*

Build-a-Part Number

Meters	Length	Code
	2	M020
	5	M050
	10	M100

C03000A48M0208

Coupling Nut Option
Stainless Steel 8

Cable Code
Orientation Code
Straight female 000
Right angle female 001

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

Brad® Power Trunk/Feeder Single-Ended Cordsets

130063

**Male
Straight, Right Angle
Threaded**



Features and Benefits

- Meets NFPA 79-2012 standards for motor and branch circuits
- UL 2237 (PVVA) listed

Reference Information

UL File No.: E258922

Electrical

Voltage: 600V AC/DC

Mechanical

Wire Size: 10 AWG

Physical

Connector Face: PVC

Connector Body: PVC

Cable: A48—UL Type STOOW/TC-ER

Cable Jacket: PVC

Cable Jacket Color: Gray



Contact: Copper alloy with Gold over Nickel plating

Coupling Nut: Anodized Aluminum

Operating Temperature: -20 to +105° C

Environmental

Protection: IP67, IP68 and IP69K (with Stainless Steel)

Poles	Current	Keyway	Cable Jacket (Cable Code)	Wire Size AWG	Length	Male Straight		Male Right Angle	
						Engineering No.	Standard Order No.	Engineering No.	Standard Order No.
3 Pole  1 - Black 3 - White 2 - Green/Yellow-gnd	32.0A	Single	PVC (A48)	10	2.0m	C03006A48M020	130063-0042	C03007A48M020	130063-0194
		Alternate				C03106A48M020	130063-0200	C03107A48M020	130063-0201
3 Pole  1 - Black 3 - White 2 - Green/Yellow-gnd	32.0A	Single	PVC (A48)	10	2.0m	C04006A48M020	130063-0150	C04007A48M020	130063-0169
		Alternate				C04106A48M020	130063-0012	C04107A48M020	130063-0189

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

Configuration Code*
Build-a-Part Number

	Length	Code
Meters	2	M020
	5	M050
	10	M100

C03006A48M0208

Coupling Nut Option
Stainless Steel 8

Cable Code
Orientation Code
Straight male 006
Right angle male 007

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

Brad® Power Trunk/Feeder Double-Ended Cordsets

130064

Female Straight-to-Male Straight Threaded



Features and Benefits

- Meets NFPA 79-2012 standards for motor and branch circuits
- UL 2237 (PVVA) listed

Reference Information

UL File No.: E258922

Electrical

Voltage: 600V AC/DC

Mechanical

Wire Size: 10 AWG

Physical

Connector Face: PVC

Connector Body: PVC

Contact: Copper alloy with Gold over Nickel plating

Cable: A48—UL Type STOOW/TC-ER

Cable Jacket: PVC

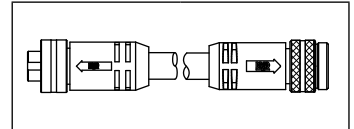
Cable Jacket Color: Gray

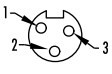
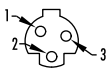

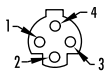
Coupling Nut: Anodized Aluminum

Operating Temperature: -20 to +105° C

Environmental

Protection: IP67, IP68, IP69K (with Stainless Steel)



Poles (Female View)	Current	Keyway	Cable Jacket (Cable Code)	Wire Size AWG	Length	Female Straight-to-Male Straight	
						Engineering No.	Standard Order No.
3 Pole 	32.0A	Single	PVC (A48)	10	2.0m	CC3030A48M020	130064-0065
3 Pole 		Alternate				CC3130A48M020	130064-0401
4 Pole 	32.0A	Single	PVC (A48)	10	2.0m	CC4030A48M020	130064-0187
4 Pole 		Alternate				CC4130A48M020	130064-0356

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

Configuration Code*
Build-a-Part Number

	Length	Code
Meters	2	M020
	5	M050
	10	M100

CC3030A48M0208

Coupling Nut Option
Stainless Steel 8

Cable Code

Orientation Code

Straight female-to-straight male 030

Right angle female-to-straight male 031

Straight female-to-right angle male 032

Right angle female-to-right angle male 033

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

Brad® Power Trunk Tees

130068

Trunk-to-Trunk and Trunk-to-Drop



Features and Benefits

- Meets NFPA 79-2012 standards for motor and branch circuits
- UL 2237 (PVVA) listed

Reference Information

UL File No.: E258922

Electrical

Voltage: 600V AC/DC

Physical

Connector Face: PVC

Connector Body: PVC

Contact: Copper alloy with Gold over Nickel plating

Coupling Type: Anodized Aluminum/epoxy-coated Zinc

Cable Type: UL Type STOOW, TC-ER

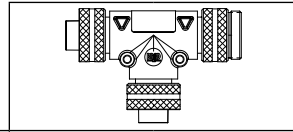
Cable Jacket: PVC

Cable Jacket Color: Gray

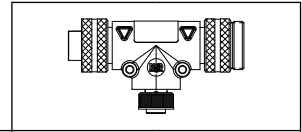
Operating Temperature: -20 to +105° C

Environmental

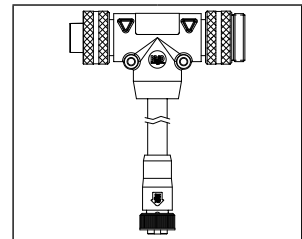
Protection: IP67, IP68, IP69K (with Stainless Steel)



Poles (Female View)	Current	Keyway	Trunk-to-Trunk	
			Engineering No.	Standard Order No.
3 Pole 	32.0A	Single	TC30C30-200	130068-0045
3 Pole 		Alternate	TC31C31-200	130068-0055
4 Pole 	32.0A	Single	TC40C40-200	130068-0079
4 Pole 		Alternate	TC41C41-200	130068-0086



Poles (Female View)	Current	Keyway	Trunk-to-Drop	
			Engineering No.	Standard Order No.
3 Pole 	32.0A Trunk / 15.0A Drop	Single	TC30130-200	130068-0034
3 Pole 		Alternate	TC31130-200	130068-0051
4 Pole 	32.0A Trunk / 13.0A Drop	Single	TC40140-200	130068-0069
4 Pole 		Alternate	TC41140-200	130068-0082



Poles (Female View)	Current	Keyway	Cable AWG	Trunk-to-Drop	
				Engineering No.	Standard Order No.
3 Pole 1 - Black 3 - White	32.0A Trunk / 15.0A Drop	Single	14	TC30200A46M010	130068-0042
	32.0A Trunk / 13.0A Drop		16	TC30200A45M010	130068-0039
4 Pole 	32.0A Trunk / 15.0A Drop	Single	14	TC40200A46M010	130068-0075
	32.0A Trunk / 10.0A Drop		16	TC40200A45M010	130068-0072

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

Configuration Code*
Build-a-Part Number

	Length	Code
Meters	2	M020
	5	M050
	10	M100

TC30200A46M0108

Coupling Nut Option
Stainless Steel. 8

→ Cable Code

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

Brad® Power Truck-to-Drop Reducers

130068
Male-Female
Straight
Threaded

Features and Benefits

- Meets NFPA 79-2012 standards for motor and branch circuits
- UL 2237 (PVVA) listed

Reference Information

UL File No.: E258922

Electrical

Voltage: 600V AC/DC

Physical

Connector Face: PVC

Connector Body: PVC

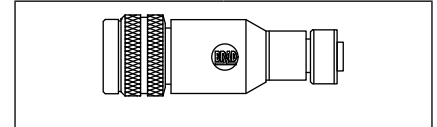
Contact: Copper alloy with Gold over Nickel plating

Coupling Nut: Anodized Aluminum/epoxy-coated Zinc

Operating Temperature: -20 to +90° C

Environmental

Protection: IP67, IP68, IP69K (with Stainless Steel)



Poles (Male View)	Current	Keyway	Engineering No.	Standard Order No.
3 Pole 	15.0A	Single	1C3030-001	130068-0015
3 Pole 		Alternate	1C3130-001	130068-0017
4 Pole 	15.0A	Single	1C4030-001	130068-0019
4 Pole 		Alternate	1C4130-001	130068-0022

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

Configuration Code*
Build-a-Part Number

1C3030-0018

Coupling Nut Option
Stainless Steel **8**

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

Brad® Power Trunk/Feeder Receptacles

130066
Female, Male
Straight



Features and Benefits

- Meets NFPA 79-2012 standards for motor and branch circuits
- UL 2237 (PVVA) listed

Reference Information

UL File No.: E258922

Electrical

Voltage: 600V AC/DC

Mechanical

Wire Size: 10 AWG

Wire Type: UL Type THHN

Physical

Connector Face: PVC

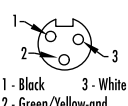
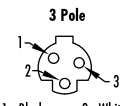
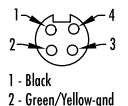
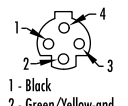
Shell: Anodized Aluminum

Contact: Copper alloy with Gold over Nickel plating

Panel Mount: Front

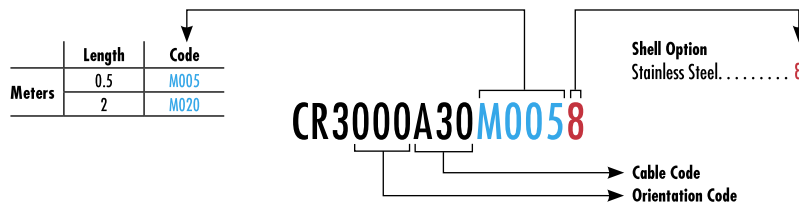
Environmental

Protection: IP67, IP68 (IP69K with Stainless Steel)

Poles (Female View)	Current	Keyway	Mounting Thread Size	Female		Male	
				Engineering No.	Standard Order No.	Engineering No.	Standard Order No.
				 1 - Black 3 - White 2 - Green/Yellow-gnd	32.0A	Single	1/2" - 14 NPT
3/4" - 14 NPT	CR3C00A30M005	130066-0134	CR3C06A30M005	130066-0143			
 1 - Black 3 - White 2 - Green/Yellow-gnd	32.0A	Alternate	1/2" - 14 NPT	CR3100A30M005	130066-0256	CR3106A30M005	130066-0257
3/4" - 14 NPT			CR3D00A30M005	130066-0258	CR3D06A30M005	130066-0259	
 1 - Black 4 - White 2 - Green/Yellow-gnd 3 - Red	32.0A	Single	1/2" - 14 NPT	CR4000A30M005	130066-0152	CR4006A30M005	130066-0170
3/4" - 14 NPT			CR4C00A30M005	130066-0189	CR4C06A30M005	130066-0203	
 1 - Black 4 - White 2 - Green/Yellow-gnd 3 - Red	32.0A	Alternate	1/2" - 14 NPT	CR4100A30M005	130066-0260	CR4106A30M005	130066-0186
3/4" - 14 NPT			CR4D00A30M005	130066-0261	CR4D06A30M005	130066-0262	

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

Configuration Code*
 Build-a-Part Number



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

Brad® Power Trunk/Feeder Field Attachable Connectors

130070

**Internal Thread Female
External Thread Male**



Features and Benefits

- Special contact design for reliability and low resistance
- Allows easy field conversion to quick-connect or repair of damaged, molded connectors

Reference Information

UL File No.: E258922

Electrical

Voltage: 600V AC/DC

Mechanical

Wire Size: 14 to 8 AWG

Cable Range: .43 to .82" (11 to 21mm)

Physical

Connector Face: PVC

Connector Body: Nylon

Contact: Copper alloy with Gold over Nickel plating

Coupling Nut: Anodized Aluminum

Grommet: Neoprene

Operating Temperature: -20 to +80° C

Environmental

Protection: IP67, IP68, IP69K

Poles (Female View)	Current	Coupling Type	Female Straight		Male Straight	
			Engineering No.	Standard Order No.	Engineering No.	Standard Order No.
3 Pole 	32.0A	Internal Thread	CA3000-39	130070-0021		
		External Thread			CA3006-39	130070-0022
4 Pole 	32.0A	Internal Thread	CA4000-39	130070-0023		
		External Thread			CA4006-39	130070-0024

Brad® Power Drop/Branch Single-Ended Cordsets

130061

**Female
Straight, Right Angle
Threaded**



Features and Benefits

- Meets NFPA 79-2012 standard for motor and branch circuits
- UL 2237 (PVVA) listed

Reference Information

UL File No.: E258922

Electrical

Voltage: 600V AC/DC

Physical

Connector Face: PVC

Connector Body: PVC

Contact: Brass with Gold over Nickel plating

Cable: A45—UL Type STOOW/TC-ER 16 AWG

A46—UL Type STOOW/TC-ER 14 AWG

Cable Jacket: PVC

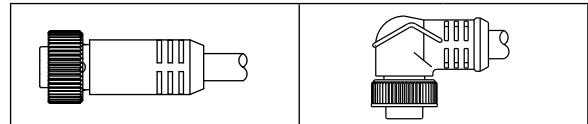
Cable Jacket Color: Gray

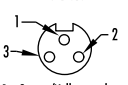
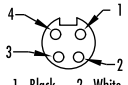
Coupling Nut: Black epoxy-coated Zinc

Operating Temperature: -20 to +105° C

Environmental

Protection: IP67, IP68 and IP69K (with Stainless Steel)

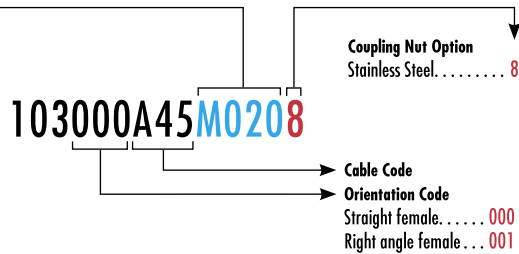


Poles	Current	Cable Type	Cable Jacket (Cable Code)	Wire Size AWG	Length	Female Straight		Female Right Angle	
						Engineering No.	Standard Order No.	Engineering No.	Standard Order No.
3 Pole  1 - Green/Yellow-gnd 2 - Black 3 - White	32.0A	STOOW/TC-ER	PVC (A45)	16	2.0m	103000A45M020	130061-0025	103001A45M020	130061-0220
	32.0A		PVC (A46)	14		103000A46M020	130061-0030	103001A46M020	130061-0040
4 Pole  1 - Black 2 - White 3 - Red 4 - Green/Yellow-gnd	32.0A	STOOW/TC-ER	PVC (A45)	16	2.0m	104000A45M020	130061-0080	104001A45M020	130061-0108
	32.0A		PVC (A46)	14		104000A46M020	130061-0091	104001A46M020	130061-0119

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

Configuration Code*
Build-a-Part Number

	Length	Code
Meters	2	M020
	5	M050
	10	M100



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

Brad® Power Drop/Branch Single-Ended Cordsets

130061

Male Straight, Right Angle Threaded



Features and Benefits

- Meets NFPA 79-2012 standard for motor and branch circuits
- UL 2237 (PVVA) listed

Reference Information

UL File No.: E258922

Electrical

Voltage: 600V AC/DC

Physical

Connector Face: PVC

Connector Body: PVC

Contact: Brass with Gold over Nickel plating

Cable: A45—UL Type ST00W/TC-ER 16 AWG

A46—UL Type ST00W/TC-ER 14 AWG

Cable Jacket: PVC

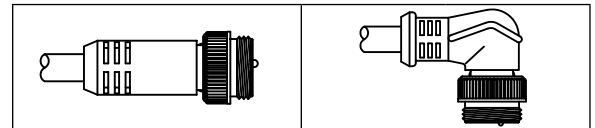
Coupling Nut: Black epoxy-coated Zinc



Cable Jacket Color: Gray

Operating Temperature: -20 to +105° C

Environmental

Protection: IP67, IP68 and IP69K (with Stainless Steel)



Poles	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.
3 Pole  1 - Green/Yellow-gnd 2 - Black 3 - White	13.0A	ST00W/TC-ER	PVC (A45)	16	2.0m	103006A45M020	130061-0046	103007A45M020	130061-0218
	15.0A		PVC (A46)	14		103006A46M020	130061-0057	103007A46M020	130061-0073
4 Pole  1 - Black 2 - White 3 - Red 4 - Green/Yellow-gnd	10.0A	ST00W/TC-ER	PVC (A45)	16	2.0m	104006A45M020	130061-0135	104007A45M020	130061-0168
	15.0A		PVC (A46)	14		104006A46M020	130061-0150	104007A46M020	130061-0179

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

Configuration Code*
Build-a-Part Number

	Length	Code
Meters	2	M020
	5	M050
	10	M100

103006A45M0208

Coupling Nut Option
Stainless Steel 8

Cable Code
Orientation Code
Straight male 006
Right angle male 007

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

Brad® Power Drop/Branch Double-Ended Cordsets

130062 Threaded Female Straight-to-Male Straight



Features and Benefits

- Meets NFPA 79-2012 standard for motor and branch circuits
- UL 2237 (PVVA) listed

Reference Information

UL File No.: E258922

Electrical

Voltage: 600V AC/DC

Physical

Connector Face: PVC

Connector Body: PVC

Contact: Brass with Gold over Nickel plating

Cable: A45—UL Type ST00W/TC-ER 16 AWG
A46—UL Type ST00W/TC-ER 14 AWG

Cable Jacket: PVC

Cable Jacket Color: Gray

Coupling Nut: Black epoxy-coated Zinc

Operating Temperature: -20 to +105° C

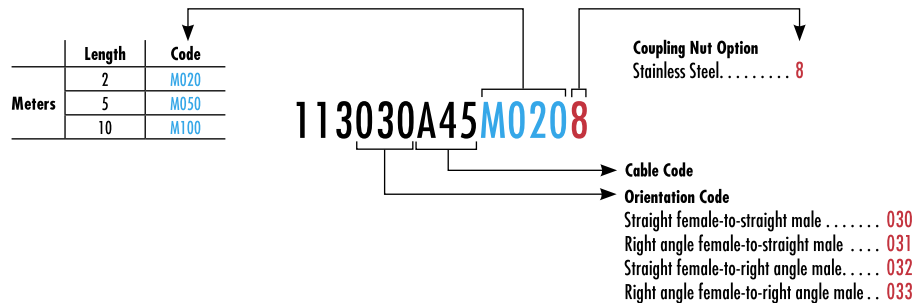
Environmental

Protection: IP67, IP68 and IP69K (with Stainless Steel)

Poles (Male View)	Current	Cable Type	Cable Jacket (Cable Code)	Wire Size AWG	Length	Female Straight-to-Male Straight	
						Engineering No.	Standard Order No.
3 Pole 1 - Green/Yellow-gnd 2 - Black 3 - White	13.0A	ST00W/TC-ER	PVC (A45)	16	2.0m	113030A45M020	130062-0032
	15.0A		PVC (A46)	14		113030A46M020	130062-0047
4 Pole 1 - Black 2 - White 3 - Red 4 - Green/Yellow-gnd	10.0A	ST00W/TC-ER	PVC (A45)	16	2.0m	114030A45M020	130062-0088
	15.0A		PVC (A46)	14		114030A46M020	130062-0124

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

Configuration Code* Build-a-Part Number



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

Brad® Power Drop/Branch Receptacles

130066

Female, Male Straight



Features and Benefits

- Patented Quad Beam™ contact provides high reliability and low resistance
- Meets NFPA 79-2012 standards for motor and branch circuits
- UL 2237 (PVVA) listed

Reference Information

UL File No.: E258922

Electrical

Voltage: 600V AC/DC

Mechanical

Wire Type: THHN

Physical

Connector Face: PVC

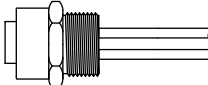
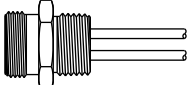
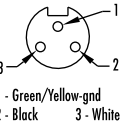
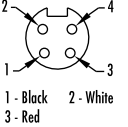
Shell: Black epoxy-coated Zinc or anodized Aluminum

Mounting Thread Size: 1/2" - 14 NPT

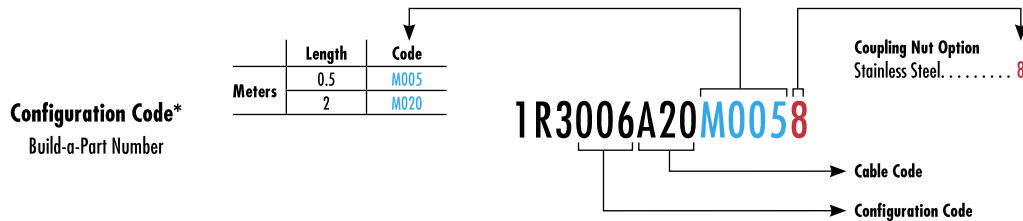
Panel Mount: Front

Environmental

Protection: IP67, IP68 (IP69K with Stainless Steel)

Poles (Female View)	Current	Wire Size AWG	Female Straight		Male Straight	
			Engineering No.	Standard Order No.	Engineering No.	Standard Order No.
						
3 Pole  1 - Green/Yellow-gnd 2 - Black 3 - White	13.0A	16	1R3000A20M005G	130066-0281	1R3006A20M005G	130066-0263
	15.0A	14	1R3000A28M005G	130066-0035	1R3006A28M005G	130066-0050
4 Pole  1 - Black 2 - White 3 - Red 4 - Green/Yellow-gnd	10.0A	16	1R4000A20M005G	130066-0254	1R4006A20M005G	130066-0078
	15.0A	14	1R4000A28M005G	130066-0069	1R4006A28M005G	130066-0090

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



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

Brad® Power Mini-Change® Drop/Branch Field Attachable Connectors

130017
Female, Male
Straight



Features and Benefits

- Patented Quad-Beam™ contact design for reliability and low resistance
- Allows easy field conversion to quick-connect or repair of damaged, molded connector

Reference Information

UL File No.: E258922

Electrical

Voltage: 600V AC/DC

Mechanical

Wire Size: 15 to 24 AWG

Cable Range: 5.08 to 11.43mm (.200 to .450")

Physical

Connector Face: Polyurethane

Connector Body: Nylon

Contact: Brass with Gold over Nickel plating

Coupling Nut: Nickel-plated Brass

Operating Temperature: -20 to +80° C

Environmental

Protection: IP67

Poles (Female View)	Current	Female Straight		Male Straight	
		Engineering No.	Standard Order No.	Engineering No.	Standard Order No.
3 Pole 	15.0A	1A3000-34PWR	130017-0055	1A3006-34PWR	130017-0056
4 Pole 	15.0A	1A4000-34PWR	130017-0057	1A4006-34PWR	130017-0058

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

Brad® Power Trunk/Feeder Accessories

Features and Benefits

- Protects connector from dust and moisture

130070

Closure Cap/Locking Clip



Product Name	Description	Engineering No.	Standard Order No.	Engineering No.	Standard Order No.	Engineering No.	Standard Order No.
Closure Cap	1 3/8" - 16 UN-2A External Thread, Anodized Aluminum	55-0198	130070-0018				
	1 3/8" - 16 UN-2B Internal Thread, Anodized Aluminum			55-0298	130070-0019		
Locking Clip	Snap Lock, Tool to Release (Pkg of 10)					66200A-10	130070-0020

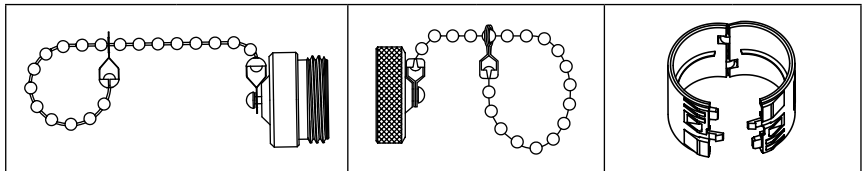
Brad® Power Drop/Branch Accessories

Features and Benefits

- Protects connector from dust and moisture

130201/130070

Closure Cap/Locking Clip



Product Name	Description	Engineering No.	Standard Order No.	Engineering No.	Standard Order No.	Engineering No.	Standard Order No.
Closure Cap	7/8" - 16 UN-2A External Thread, Anodized Aluminum with Steel Bead Chain	65-0085	130201-1109				
	7/8" - 16 UN-2B Internal Thread, Anodized Aluminum with Steel Bead Chain			65-0086	130201-1111		
Locking Clip	Snap Lock, Tool to Release (Pkg of 10)					11400A-10	130070-0012

Brad® Mini-Change® and Micro-Change® (M12) Emergency Stop Cordsets and Tees

130010/130018
Special Wired



Features and Benefits

- Patented Quad Beam™ contact with Gold over Nickel plating provides high reliability and low resistance
- Compatible with Allen-Bradley ArmorStart drives*

Reference Information

UL File No. E152210
CSA File No. LR6837

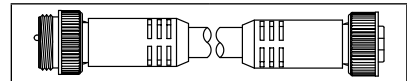
Physical

Connector Face: TPE
Connector Body: TPE
Contacts: Brass with Gold over Nickel plating
Hardware: Black epoxy-coated Zinc
Operating Temperature: -20 to +80° C

Environmental

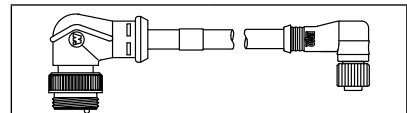
Protection: IP67

E-stop Cordset (Mini-Change-to-Mini-Change)



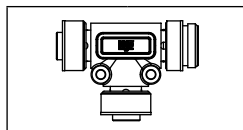
Male	Schematic	Female	Current	Voltage	Cable Type	Male Straight-to-Female Straight	
						Engineering No.	Standard Order No.
			8.0A	600V	TC-ER	51180-M020	130018-0125

E-stop Adapter Cordset (Mini-Change-to-Micro-Change)



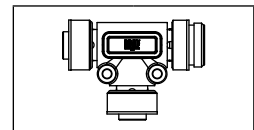
Male	Schematic	Female	Current	Voltage	Cable Type	Male-Female Right Angle-to-Right Angle	
						Engineering No.	Standard Order No.
			4.0A	300V	ITC-ER	41627-M010	130010-1657

Tee for E-stop In (Mini-Change)



Schematic	Current	Voltage	Engineering No.	Standard Order No.
	8.0A	600V	61451-ESIN	130035-0030

Tee for E-stop Out (Mini-Change)



Schematic	Current	Voltage	Engineering No.	Standard Order No.
	8.0A	600V	61451-ESOUT	130035-0031

Note: Sales drawings for all standard order numbers are available on molex.com
*Allen-Bradley and ArmorStart are trademarks of Rockwell Automation Inc.

Configuration Code†
Build-a-Part Number

	Length	Code
Meters	2	M020
	5	M050
	10	M100

51180-M020

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

Brad® Mini-Change® Emergency Stop Receptacles and Terminators

130010/130018
Special Wired



Features and Benefits

- Patented Quad Beam™ contact with Gold over Nickel plating provides high reliability and low resistance
- Compatible with Allen-Bradley ArmorStart drives*

Reference Information

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

Physical

Connector Face: TPE
Connector Body: TPE
Contacts: Brass with Gold over Nickel plating
Hardware: Zinc die-cast with black epoxy
Mounting Thread Size: 1/2" - 14 NPT
Panel Mount: Front
Operating Temperature: -20 to +80° C

Environmental

Protection: IP67

Female Receptacle

Female	Schematic	Current	Voltage	Wire Type	Female Straight	
					Engineering No.	Standard Order No.
<p>6 Pole</p>	<p>1 RED 2 BLACK 3 GREEN 4 BLUE 5 BLUE 6 WHITE</p>	8.0A	600V	UL 1015	41671-0030	130013-0991

E-stop In Terminator

Male	Schematic	Current	Voltage	Male	
				Engineering No.	Standard Order No.
<p>6 Pole</p>		8.0A	600V	41437-001	130039-0358

E-stop Out Terminator

Male	Schematic	Current	Voltage	Male	
				Engineering No.	Standard Order No.
<p>6 Pole</p>		8.0A	600V	41437-002	130039-0359

*Allen-Bradley and ArmorStart are trademarks of Rockwell Automation Inc.