
SECTION
K
Ground
CAUTION
USE
ONLY

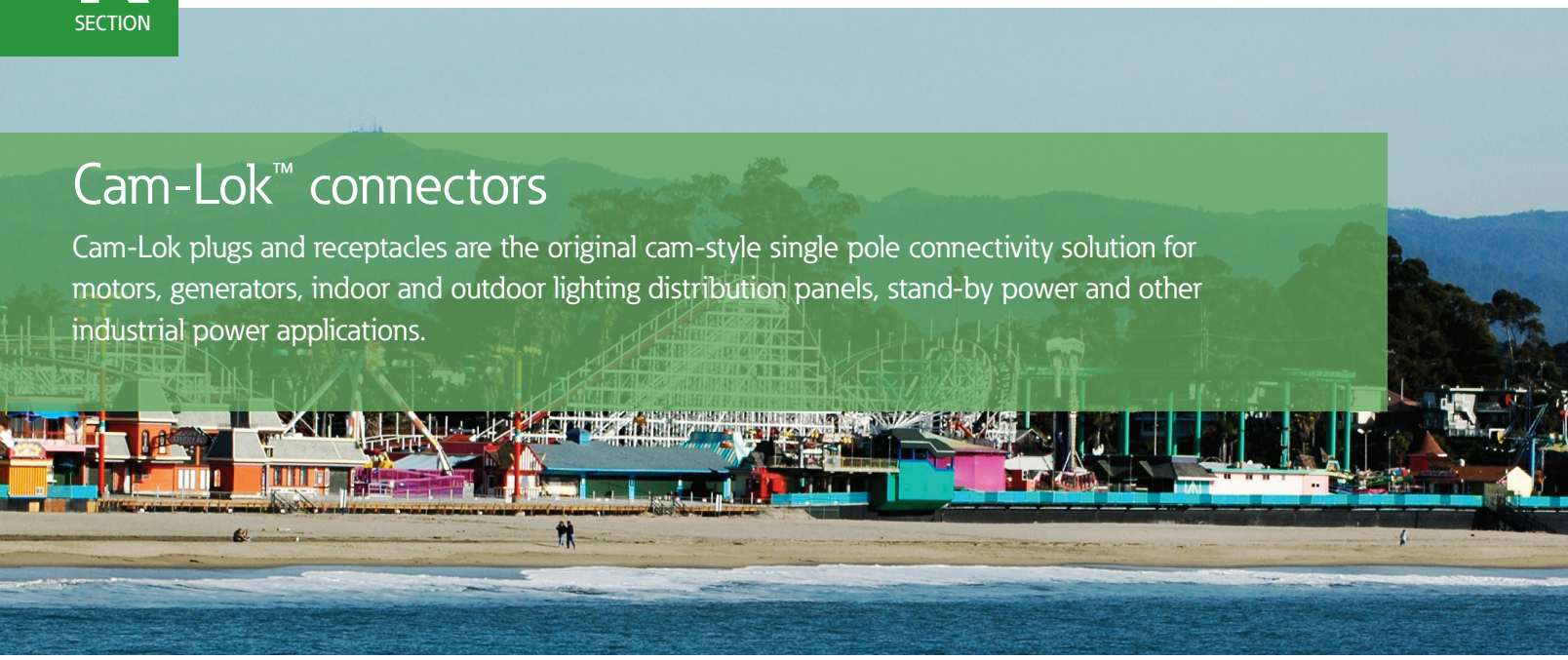
Cam-Lok™ Single Pole Connectivity

COMMERCIAL | INDUSTRIAL

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Cam-Lok products are also sold by Eaton's Crouse-hinds. If you need more information on these products, please reach out to your Crouse-Hinds sales rep.



Cam-Lok™ connectors

Cam-Lok plugs and receptacles are the original cam-style single pole connectivity solution for motors, generators, indoor and outdoor lighting distribution panels, stand-by power and other industrial power applications.

Single pole connectivity

Cam-Lok™
J-series product applications

Portable power
Motors
Generators



K-5



Eaton's Crouse-Hinds Cam-Lok™ single pole connectors are specially designed to provide the ultimate in reliable service, even under the most severe operating conditions.

- Exclusive double cam principle provides a positive, vibration-proof connection
- Safe and easy assembly with normal hand tools or no tools at all
- All insulators are molded from colorfast material providing quick and easy phase identification
- Panel mount receptacles are insulated for direct mounting to steel panels, eliminating the need for costly insulating boards
- All Cam-Lok™ products are 100% insulated, providing a safe connection

Product selector guide

Selecting the correct Cam-Lok™ product series is easy

Just identify the cable size, voltage, amperage and approval requirements

J series

Series	Ampacity rating (max.)	Voltage rating (max)	Cable sizes	Approvals
E1015	150	600	#8 - #4	UL1691/CSA 22.2
E1016/EZ1016	400	600	#6 - 4/0	UL1691/CSA 22.2

J series NEMA ratings

	NEMA Type 1	NEMA Type 2	NEMA Type 3	NEMA Type 3R	NEMA Type 4
E1015 non-vulcanized plugs	•	•	•	•	
E1015 vulcanized plugs	•	•	•	•	•
E1015 receptacles	•	•	•	•	
E-Z1016 non-vulcanized plugs	•	•	•	•	
E1016 non-vulcanized plugs	•	•	•	•	
E1016 vulcanized plugs	•	•	•	•	•
E1016 receptacles & terminals	•	•	•	•	
Plastic snapback covers	•	•	•	•	
Metal snapback covers	•				
E1016 accessories	•	•	•	•	

See full product listing at Eaton.com

NEMA enclosure rating systems

NEMA rating (National Electrical Manufacturers Association)

The NEMA rating indicates the level of protection the device has against water and dirt intrusion

NEMA enclosure ratings

	Device locations		
Protection from	**Indoors**	**Indoors or outdoors**	**Outdoors with external mechanisms**
Limited amounts of falling dirt	NEMA type 1		
Limited amounts of falling dirt and dripping water	NEMA type 2		
Rain, sleet, falling dirt, windblown dust, damage from ice formation		NEMA type 3	
Rain, sleet, falling dirt, damage from ice formation		NEMA type 3R	
Rain, sleet, windblown dust, ice laden operation possible			NEMA type 3S
Windblown dust and rain, splashing water, hose-directed water, damage from ice formation		NEMA type 4	
Corrosion, windblown dust and rain, splashing water, hose-directed water, damage from ice formation		NEMA type 4X	
Falling dirt and settling airborn dust, lint, fibers and dripping non-corrosive liquids	NEMA type 5		
Hose-directed water, entry of water during occasional short-term limited depth submersion, damage from ice formation		NEMA type 6	
Hose-directed water, entry of water during long-term limited depth submersion, damage from ice formation		NEMA type 6P	
Class I, Division 1, groups A,B,C or D hazardous locations (as defined by NEC®, NFPA 70)	NEMA type 7 (commonly referred to as explosion-proof)		
Class I, Division 1, groups A,B,C or D hazardous locations (as defined by NEC®, NFPA 70)	NEMA type 8 (commonly referred to as oil-immersed)		
Class II, Division 1, groups E, F and G hazardous locations (as defined by NEC®, NFPA 70)	NEMA type 9 (commonly referred to as dust-ignition-proof)		
Meets applicable requirements of the Mine Safety & Health Administration, 30 CFR, part 18		NEMA type 10	
Circulating dust, falling dirt, dripping non-corrosive liquids	NEMA type 12 NEMA type 12K		
Dust, spraying of water, oil and non-corrosive coolant	NEMA type 13		

Compliances, specifications and availability are subject to change without notice.

Cam-Lock™ J-series applications, features & benefits

Designed for reliable, portable, quick and safe single pole connections

Cam-Lok™ J-series connectors are specifically designed to meet the needs of demanding portable applications. J-series plugs and receptacles are the proven industry standard single pole connectors for reliability and service with added safety

Applications

- J-series plugs and receptacles are specifically designed for industrial power distribution applications requiring quick, tool-free connections
- Ideal for portable power, power distribution, motors, generators and entertainment applications; J-series replaces traditional hardwiring while cutting downtime and maintenance
- J-series connectors are insulated, shatter/crack resistant and water tight plus heat, weather, ozone, oil and abrasion resistant

Specifications

Electrical ratings

- 600 Volts AC/DC
- 690 Amps continuous

Temperature ratings

- -40° C to 105° C

Materials

- Accepts cable sizes: #8 AWG – 800 MCM
- Insulator material: Elastomeric or rubber
- Contact material: Brass or copper
- Cam-Lok's are UL rated for use with Copper conductor Only
- Can be used with DLO (Diesel Locomotive Cable)

Environmental

- NEMA 3R

Certifications

- Listed to UL1691
- Listed to CSA C22.2 no.1691-12
- CSA certified to C22.2, no.182.3 LR13963





Cam-Lok™ J-series applications, features & benefits

Discover how Cam-Lok™ J-series connectivity outperforms hardwiring

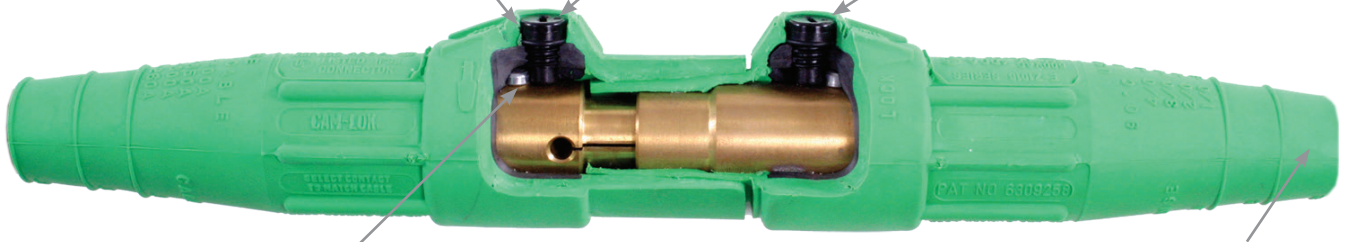
Cam-Lok™ J-series connectors quickly replace traditional hardwiring and offer more safety with integrated watertight insulators and a strain relief system. Plus, a wide range of sizes, colors and accessories are available for complete flexibility

Features & benefits

Non-metallic retaining screw provides safe, strong and reliable contact retention

Easy assembly with standard tools

Retaining screw snaps into place to prevent loss



E-Z align drive pin increases torque and longitudinal strength 300%

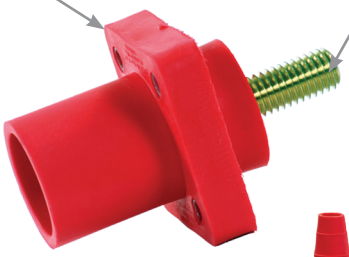
Accommodates a wide range of cable sizes: #2 – 4/0

Double set screw termination for added strength (crimp also available)



Non-vulcanized E1016 & EZ1016 plugs feature a high-strength, molded-in-place locking ring to capture and secure the insulator to the contact

Fully insulated for direct mounting to steel panels



Threaded stud and double set screw receptacles available (other terminations available)

High impact-resistant thermoplastic protects receptacles from damage



Snapback covers provide NEMA 3R environmental seal



Wide range of colors available

Compliances, specifications and availability are subject to change without notice.

Cam-Lok™ J-series E1015 plugs

Product description

Cable size #8 – #4 AWG
600V AC/DC, up to 150A continuous
NEMA 3R



E1015-8313



E1015-8333

J-series E1015, elastomeric, non-vulcanized, single set screw connection

Features

- Double cam principle provides a positive, vibration-proof connection
- Self-compensating for wear
- No moving contact surfaces, eliminating arcing or burning
- Superior electromechanical connections
- Locked contacts will withstand a pulling force of 1,000 lbs.
- 1/3 of a turn assures a high pressure contact approaching 600 lbs. per sq. in. providing minimum resistance
- Contacts carefully machined from a high conductivity brass to a smooth sliding fit and easy locking action
- Watertight elastomeric insulators molded from colorfast material, color-coded for easy phase identification
- Recessed contacts protected by insulating jacket that extends beyond contact ends for safety
- Integrated strain relief system features a retaining wire that prevents cable jacket pull-away and bare conductor exposure
- Accepts a wide range of cable sizes

Set screw non-vulcanized male plugs

Cable size	Color	Complete part no.
#8-#4	BK	E1015-8306K
	RD	E1015-8308K
	GR	E1015-8310K
	WH	E1015-8311K

Set screw non-vulcanized female plugs

Cable size	Color	Complete part no.
#8-#4	BK	E1015-8331K
	RD	E1015-8333K
	GR	E1015-8335K
	WH	E1015-8336K

For E1015 elastomeric, non-vulcanized, single set screw connection drawings, see page K-11

Color information:

BK (Black), RD (Red), GR (Green), WH (White)

BK	RD	GR	WH
(Black)	(Red)	(Green)	(White)

Testing & code compliance: Listed to UL1691, Listed to CSA C22.2, No. 1691-12, CSA certified to C22.2, No. 182.3 LR 13963
Material characteristics: Insulator: TPE, Environmental: NEMA 3R, Temperature rating: Operating ambient: -40° C to 105° C
Compliances, specifications and availability are subject to change without notice.

Cam-Lok™ J-series E-Z1016 plugs

Product description

Cable size #2 AWG – 2/0
600V AC/DC, up to 300A continuous
NEMA 3R



E-Z1016-8354



E-Z1016-8380

J-series E-Z1016, elastomeric, non-vulcanized, double set screw connection

Features

- E-Z assembly and disassembly-no tools needed
- Double cam principle provides a positive, vibration-proof connection
- Self-compensating for wear
- No moving contact surfaces, eliminating arcing or burning
- Superior electromechanical connections
- Locked contacts will withstand a pulling force of 1,000 lbs.
- 1/3 of a turn assures a high pressure contact approaching 600 lbs. per sq. in. providing minimum resistance
- Contacts carefully machined from a high conductivity brass to a smooth sliding fit and easy locking action
- Watertight elastomeric insulators molded from color-fast material, color-coded for easy phase identification
- Recessed contacts protected by insulating jacket that extends beyond contact ends for safety
- Integrated strain relief system features a retaining wire that prevents cable jacket pull-away and bare conductor exposure
- Plugs feature a high-strength, molded-in-place locking ring to capture and secure the insulator to the contact
- Accepts a wide range of cable sizes

Double set screw non-vulcanized male plugs

Cable size	Color	Complete part no.
#2-2/0	BK	E-Z1016-8350K
	BU	E-Z1016-8356K

Double set screw non-vulcanized female plugs

Cable size	Color	Complete part no.
#2-2/0	GR	E-Z1016-8379K
	WH	E-Z1016-8380K
	BU	E-Z1016-8381K

For E-Z1016 elastomeric, non-vulcanized, double set screw connection, see page K-11

Color information:

BK (Black), GR (Green), WH (White), BU (Blue)

BK	GR	WH	BU
(Black)	(Green)	(White)	(Blue)

Testing & code compliance: Listed to UL1691, Listed to CSA C22.2, No. 1691-12, CSA certified to C22.2, No. 182.3 LR 13963
Material characteristics: Insulator: TPE, Environmental: NEMA 3R, Temperature rating: Operating ambient: -40° C to 105° C
Compliances, specifications and availability are subject to change without notice.

Cam-Lok™ J-series E-Z1016 plugs

Product description

Cable size 2/0 – 4/0
600V AC/DC, up to 400A continuous
NEMA 3R



E-Z1016-8368



E-Z1016-8389

J-series E-Z1016, elastomeric, non-vulcanized, double set screw connection

Features

- E-Z assembly and disassembly-no tools needed
- Double cam principle provides a positive, vibration-proof connection
- Self-compensating for wear
- No moving contact surfaces, eliminating arcing or burning
- Superior electromechanical connections
- Locked contacts will withstand a pulling force of 1,000 lbs.
- 1/3 of a turn assures a high pressure contact approaching 600 lbs. per sq. in. providing minimum resistance
- Contacts carefully machined from a high conductivity brass to a smooth sliding fit and easy locking action
- Watertight elastomeric insulators molded from color-fast material, color-coded for easy phase identification
- Recessed contacts protected by insulating jacket that extends beyond contact ends for safety
- Integrated strain relief system features a retaining wire that prevents cable jacket pull-away and bare conductor exposure
- Plugs feature a high-strength, molded-in-place locking ring to capture and secure the insulator to the contact
- Accepts a wide range of cable sizes

Double set screw non-vulcanized male plugs

Cable size	Color	Complete part no.
2/0-4/0	BK	E-Z1016-8362K
	RD	E-Z1016-8364K
	GR	E-Z1016-8366K
	BU	E-Z1016-8368K
	ORG	E-Z1016-8365K
	YEL	E-Z1016-8363K

Double set screw non-vulcanized female plugs

Cable size	Color	Complete part no.
2/0-4/0	BK	E-Z1016-8387K
	RD	E-Z1016-8389K
	GR	E-Z1016-8391K
	WH	E-Z1016-8392K
	BU	E-Z1016-8393K
	BRN	E-Z1016-8394K
	ORG	E-Z1016-8390K

For E-Z1016 elastomeric, non-vulcanized, double set screw connection, see page K-11

Color information:

BK (Black), RD (Red), GR (Green), WH (White), BU (Blue), BRN (Brown), ORG (Orange)

BK	RD	GR	WH	BU	BRN	ORG
(Black)	(Red)	(Green)	(White)	(Blue)	(Brown)	(Orange)

Testing & code compliance: Listed to UL1691, Listed to CSA C22.2, No. 1691-12, CSA certified to C22.2, No. 182.3 LR 13963
Material characteristics: Insulator: TPE, Environmental: NEMA 3R, Temperature rating: Operating ambient: -40° C to 105° C
Compliances, specifications and availability are subject to change without notice.

Single pole connectors

Cam-Lok™ Receptacles covers

Product description
NEMA 3R

J-series E1016, NEMA 3R receptacle covers

Features
- Molded from colorfast material color-coded for easy phase identification
- Mounts directly to new or existing receptacles
- Provides NEMA 3R protection
- High impact resistant thermoplastic covers and bodies
- Stainless steel hardware
- Complete color offering

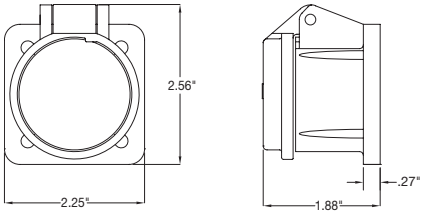




standard

NEMA 3R receptacle covers

Color	E1016-series
BK	E1016SC-32
RD	E1016SC-36
GR	E1016SC-35
WH	E1016SC-38
BU	E1016SC-34
YEL	E1016SC-37
ORG	E1016SC-39
BRN	E1016SC-31



E1016SC

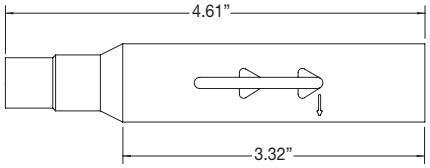
Color information:
BK (Black), RD (Red), GR (Green), WH (White), BU (Blue), YEL (Yellow), ORG (Orange), BRN (Brown)

BK	RD	GR	WH	BU	YEL	ORG	BRN
(Black)	(Red)	(Green)	(White)	(Blue)	(Yellow)	(Orange)	(Brown)

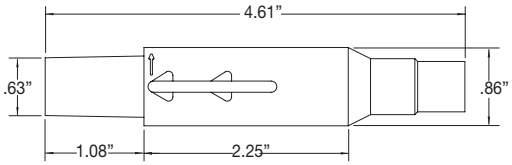
Testing & code compliance: Listed to UL1691 **Material characteristics:** Body: Thermoplastic, Environmental: NEMA 3R, Temperature rating: Operating ambient: -40° C to 105° C
Compliances, specifications and availability are subject to change without notice.

J-series dimensional drawings

J-series E1015, elastomeric, non-vulcanized, single set screw connection

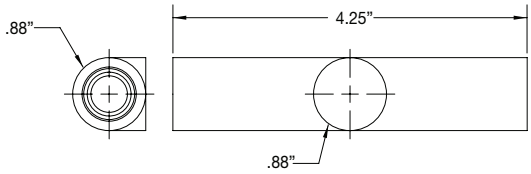


Male non-vulcanized plug



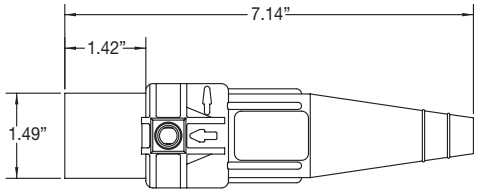
Female non-vulcanized plug

J-series E1015, rubber

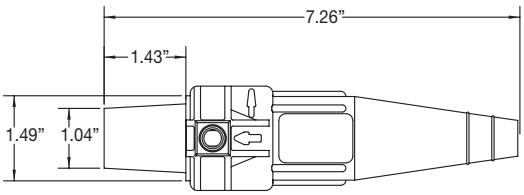


Tapping tee

J-series E-Z1016, elastomeric, non-vulcanized, double set screw connection & crimp connection



Male connector



Female connector