

SP High Amperage plug and receptacle



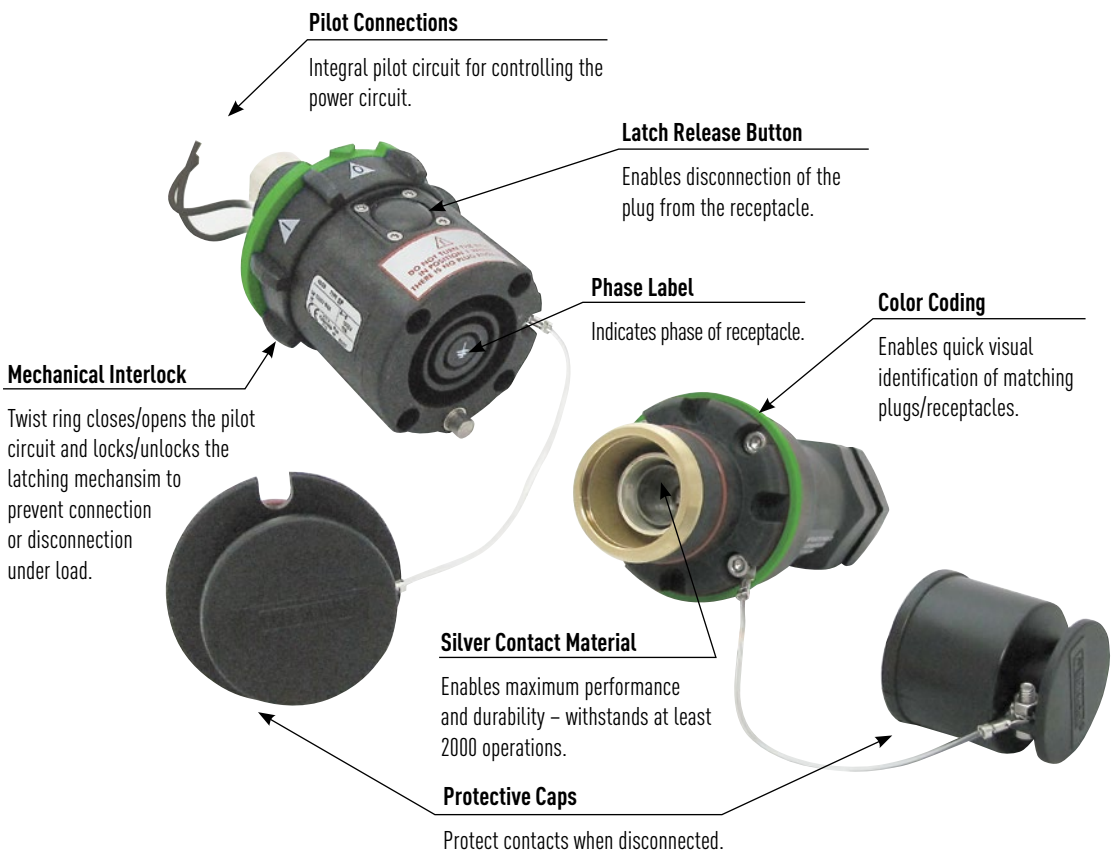
Main Advantages

- ▶ Safety features provide maximum protection
- ▶ Silver, butt-style contact technology maximizes durability
- ▶ IP66/IP67 environmental protection when mated
- ▶ Mechanical coding prevents intermating of phases.

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PRODUCT FEATURES

Operating Instructions



To connect, insert the plug into the receptacle until a click is heard. Rotation of the plug in either direction engages a locking finger, which prevents further rotation.



To close the pilot circuit and mechanically lock the plug into the receptacle, turn the ring on the receptacle until the "1" lines up with the arrow. This turns the power on.



To disconnect, open the pilot circuit and unlock the plug by turning the ring until the "0" is aligned with the arrow. The power is now off.



Press firmly on the latch release button and simultaneously pull on the inlet. A slight rotation of the plug may also be required.

General Ratings

Listing	CSA	IEC
Amperage	600A	700A
Voltage	600 VAC	1000 VAC / 1500 VDC Max
Frequency	50-400 Hz	50-400 Hz
Horsepower	500 hp	-
Environmental	IP66/IP67	IP66/IP67
Temperature	min -15°F/max 140°F	min -15°F/max 140°F

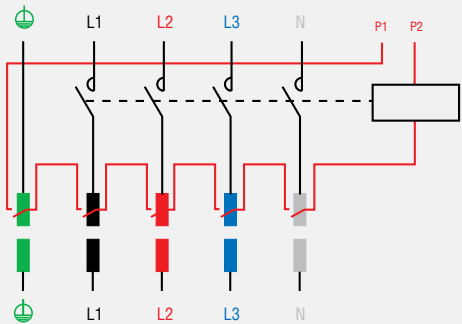
Highlighted Feature

Pilot Circuit



SP plugs and connectors are designed with safety and durability in mind. Each device is mechanically interlocked with an integral pilot circuit switch for controlling the power circuit in order to prevent connection and disconnection under load.

A typical pilot circuit wiring diagram



SP Single Pole Plugs & Receptacles – 600A

CSA Ratings

- **Max Amperage & Voltage**
600A, 600 VAC
Contact customer service to order devices for international applications and for IEC listings up to 700A, 1000 VAC/1500 VDC.
- **Current Interruption Capability**
Non-Load break
- **Horsepower Ratings**

480V	3Ø	500 hp
600V	3Ø	500 hp

CSA HP rated when auxiliary pilots are wired to control motor control circuit.
- **Environmental Ratings**
IP66/IP67
- **Temperature Range**
Min -15°F/Max 140°F
- **Wiring Capacity**
Min 2/0 Max 777 MCM
Aux Contacts 12-14 AWG
- **Applicable Standards**
CSA 182.1
- **Pilot Contact Amperage**
1A, 240 VAC

Receptacle (female) without lug Inlet (male) without lug



! Don't forget to add installation accessories to your order

North American Configurations

North American Color Code	Polarity	Part # without lug	Part # without lug
	L1	45-44001-P80	45-48001-P80
	L2	45-44002-P80	45-48002-P80
	L3	45-44003-P80	45-48003-P80
	NEUTRAL	45-4400N-P80	45-4800N-P80
	GROUND	45-4400T-P80	45-4800T-P80
	POSITIVE	45-4400P	45-4800P
	NEGATIVE	45-4400M	45-4800M
	GROUND	45-4400T	45-4800T

- Notes:**
- Not CSA listed. CE rated up to 700A, 1000 VAC/1500 DC.
 - Pilot contacts are AC/DC rated for 6A and 250V.

IEC/CE Configurations

CSA Ratings


- **Amperage**
700A
- **Voltage**
1000 VAC, 1500 VDC
- **Environmental Ratings**
IP66/IP67
- **Temperature Range**
Min -40°C/Max 60°C
- **Wiring Capacity**
50 - 400 mm²
- **Applicable Standards**
CE

European Color Code	Polarity	Part # Poly	Part # Poly
Brown	L1	45-44001	45-48001
Black	L2	45-44002	45-48002
Grey	L3	45-44003	45-48003
Blue	NEUTRAL	45-4400N	45-4800N
Green	GROUND	45-4400T	45-4800T
Red	POSITIVE	45-4400P	45-4800P
Black	NEGATIVE	45-4400M	45-4800M


- Notes:**
- Not CSA listed. CE rated up to 700A, 1000 VAC/1500 DC.
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INSTALLATION ACCESSORIES – SIZE S


HANDLES

HANDLE	Cable Outside Diameter	Part #
	.750 - .875	45-4A753-A
	.875 - 1.000	45-4A753-B
	1.000 - 1.125	45-4A753-C
	1.125 - 1.250	45-4A753-D
	1.250 - 1.375	45-4A753-E
	1.250 - 1.375	45-4A783-A
	1.312 - 1.437	45-4A783-B
	1.438 - 1.562	45-4A783-C
	1.562 - 1.688	45-4A783-D

CRIMPING LUGS

CRIMPING LUG – Straight w/terminal	Flexible MCM+ Wire Size	Part #
	1	45-4A50C
	2/0	45-4A70C
	3/0	45-4A95C
	250	45-4A12C
	300	45-4A15C
	350	45-4A18C
	450	45-4A24C
	600	45-4A30C
	777	45-4A40C

(Bolt Included)


CRIMPING LUG – Straight Threaded**	Flexible MCM+ Wire Size	Part #
	1	45-4A50D
	2/0	45-4A70D
	3/0	45-4A95D
	250	45-4A12D
	300	45-4A15D
	350	45-4A18D
	450	45-4A24D
	600	45-4A30D
	777	45-4A40D

+ Based on flexible type copper cables. See appropriate NEC tables for applicable ampacities

** Conductor sizes are approximations based on metric wire size conversions.

* Use the straight threaded lug when cord mounting with handle accessory.

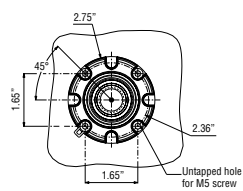
ANGLES

METAL ANGLE	Part #
 45°	45-4A027

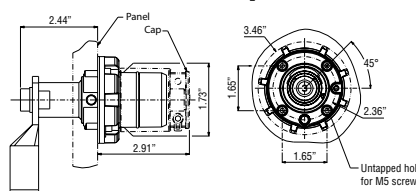
Dimensions Inlet/Receptacle – Provided in inches

Dimensions are for reference only and may change depending on accessories used. For precise dimensions contact MELTRIC Engineering.

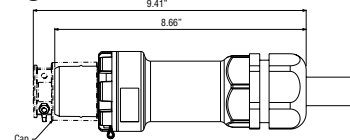
inlet



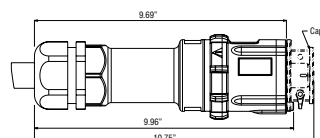
receptacle



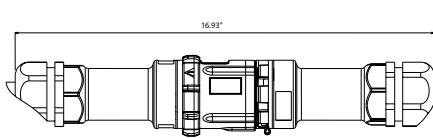
plug



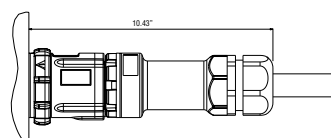
connector



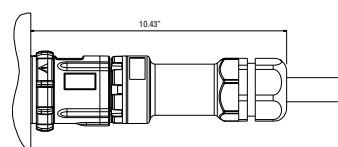
plug/connector



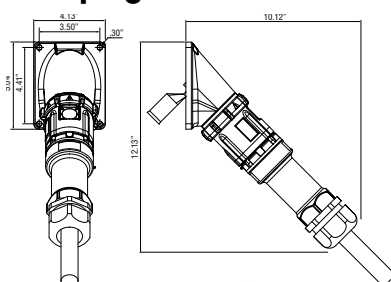
plug with connector on/off



connector with plug on/off



45° inclined receptacle/angle with plug



45° inclined inlet/angle with connector

