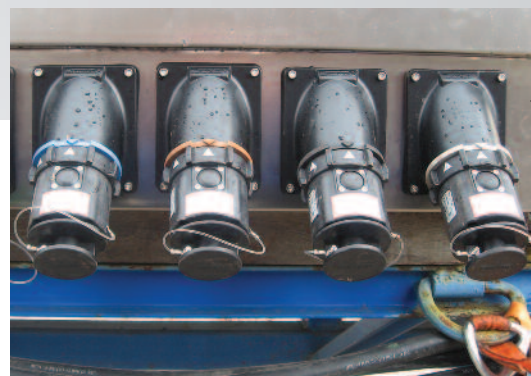


SP

Features and Ratings p. 134

SP Parts p. 135

Dimensions p. 136



Single Pole, High Amperage Plugs & Receptacles

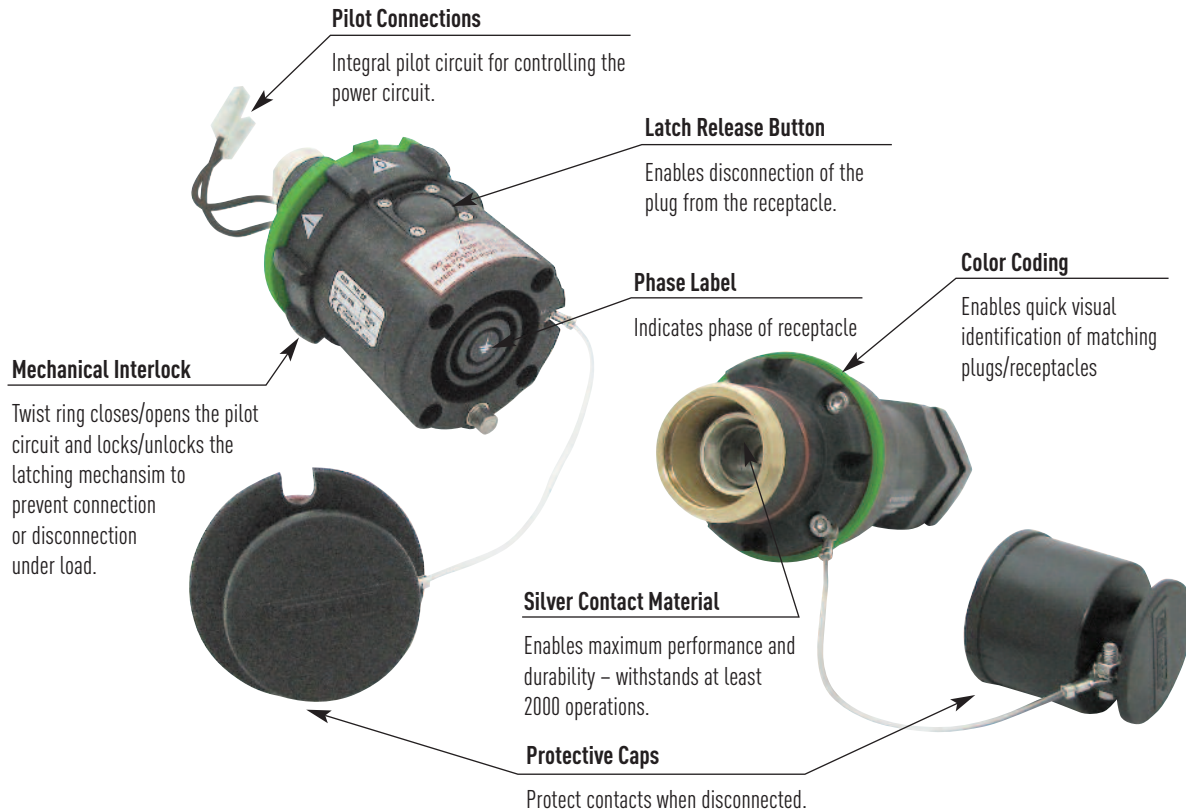
SP devices are designed for safety, durability and ease of operation. SP receptacles are IP 2X rated to prevent accidental finger contact with live parts and are also equipped with pilot contacts for controlling the power circuit. The pilot contacts are interlocked with the latching mechanism to prevent connection or disconnection under load.

Five different mechanical keying positions for L1, L2, L3, N and E prevent accidental insertion of the wrong plug into a receptacle. Color coding simplifies identification of mating devices.

Main Advantages

- ▶ Safety features provide maximum protection
- ▶ Silver, butt-style contact technology maximizes durability
- ▶ IP66-IP67 environmental protection when mated

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
Environmental	IP66+IP67	IP66+IP67
Temperature	min -15°F/max 140°F	min -15°F/max 140°F

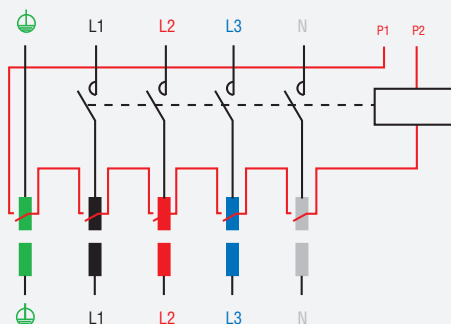
Highlighted Feature

Pilot Circuit

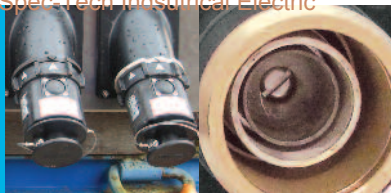


SP plugs and connectors are designed with safety and durability in mind. Each device is mechanically interlocked with an integral pilot circuit switch for controlling the power circuit in order to prevent connection and disconnection under load.

A typical pilot circuit wiring diagram



SP



SP – 600A

Single Pole Plugs & Receptacles

Ratings

- **Voltage**
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
- **Listings**
CSA (IEC, CE optional)
* Contact Customer Service
- **Pilot Contact Amperage**
1A, 240 VAC

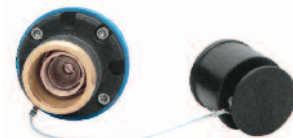
Receptacle (female) without lug



Don't forget to add installation accessories to your order



Inlet (male) without lug



Color Code	Polarity	Part # without lug
	L1	45-44001-P80
	L2	45-44002-P80
	L3	45-44003-P80
	NEUTRAL	45-4400N-P80
	GROUND	45-4400T-P80
	POSITIVE	45-4400P*
	NEGATIVE	45-4400M*
	GROUND	45-4400T*

Color Code	Polarity	Part # without lug
	L1	45-48001-P80
	L2	45-48002-P80
	L3	45-48003-P80
	NEUTRAL	45-4800N-P80
	GROUND	45-4800T-P80
	POSITIVE	45-4800P*
	NEGATIVE	45-4800M*
	GROUND	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

Crimping lug*



Handle



Angle Option



Inclined Metal
Angle 45°

Part #

Angle 45-4A027

Flexible MCM+ Wire Size	Straight with Terminal	Straight Threaded**
4/0	45-4A95C	45-4A95D
250	45-4A12C	45-4A12D
300	45-4A15C	45-4A15D
350	45-4A18C	45-4A18D
500	45-4A24C	45-4A24D
600	45-4A30C	45-4A30D
777	45-4A40C	45-4A40D

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

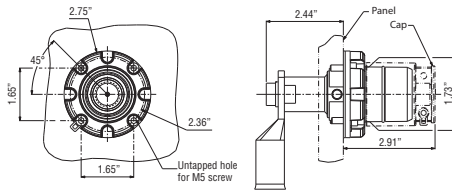
- * Use the straight threaded lug when cord mounting with handle accessory
- ** Straight threaded lug can be used for solder connection as well as crimp connection
- Lugs should be crimped using a dieless indent style crimping tool
- + Based on flexible type copper cables. See appropriate NEC tables for applicable ampacities

Dimensions

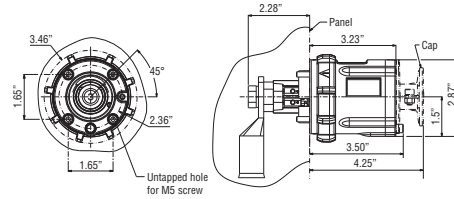
Inlet & Receptacle- Provided in inches

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

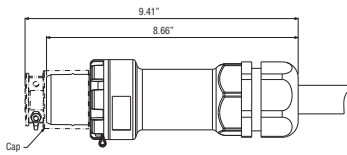
inlet



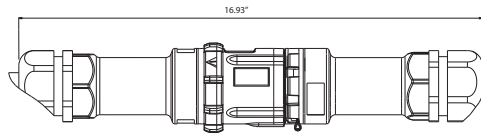
receptacle



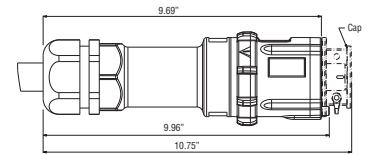
plug



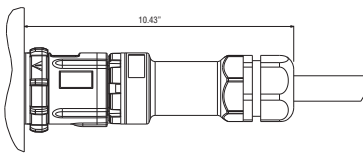
plug / connector



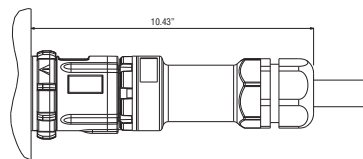
connector



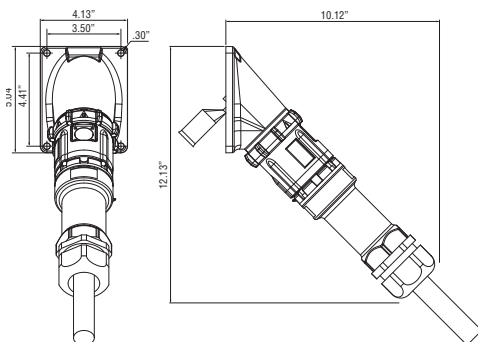
plug with connector on/off



connector with plug on/off



45° inclined receptacle/angle with plug



45° inclined inlet/angle with connector

