

800 A

## SP SINGLE POLE CONNECTOR



### SP

- are single pole connectors which are safe, reliable and provide a high level of performance for all high current applications. They withstand frequent overloads up to 8000 A that depend on operating cycle.
- Are robust connectors with outstanding durability.
- Are fitted with an electromechanical interlocking and an electrical interlocking with pilot contact circuit.

### SP SINGLE POLE CONNECTORS COMPLY WITH:

- the European Directives Low Voltage, RoHS (affixing of CE marking), REACH European Regulation.



Canada



Russia  
and Eurasia



Marine



Military  
(Mil-S-901D)

### THE HIGHEST POSSIBLE SAFETY

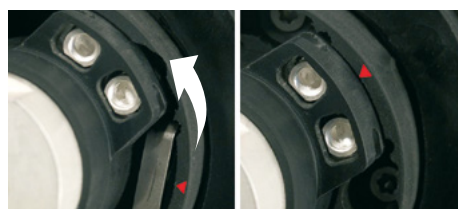
- IP2X socket-outlet when cap removed,
- Automatic IP66/IP67 watertightness when plug is connected.

### AN EASILY OPERABLE CONNECTOR

- Straight insertion of the plug into the socket-outlet without any rotation,
- Mechanical fool-proofing system between phases, neutral and earth,
- Visual identification by standard colours,
- Screwed crimping lugs facilitate cable replacement.

### PERFORMANCES

- Thanks to the butt-contact principle, the SP withstands continuously up to 800 A/1000 VAC or 1500 V DC (70 mm<sup>2</sup> to 630 mm<sup>2</sup> conductors), withstands at least 2 000 operations.

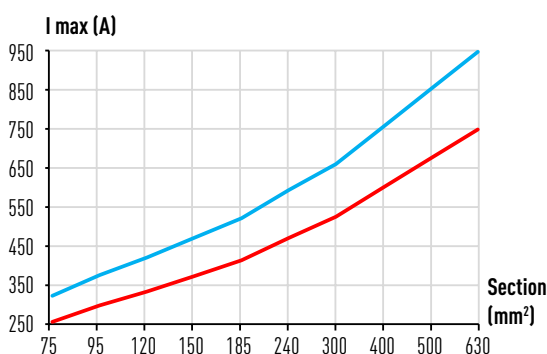


Reliable mechanical and electrical interlocking with pilot contact circuit.

### SP CHARACTERISATION

Permanent and non-intermittent on-load current permitted for a new SP, wired with an appropriate H 07 RN-F cable, and at a defined maximal ambient temperature.

- Tamb maxi : 60°C.
- Tamb maxi : 30°C.

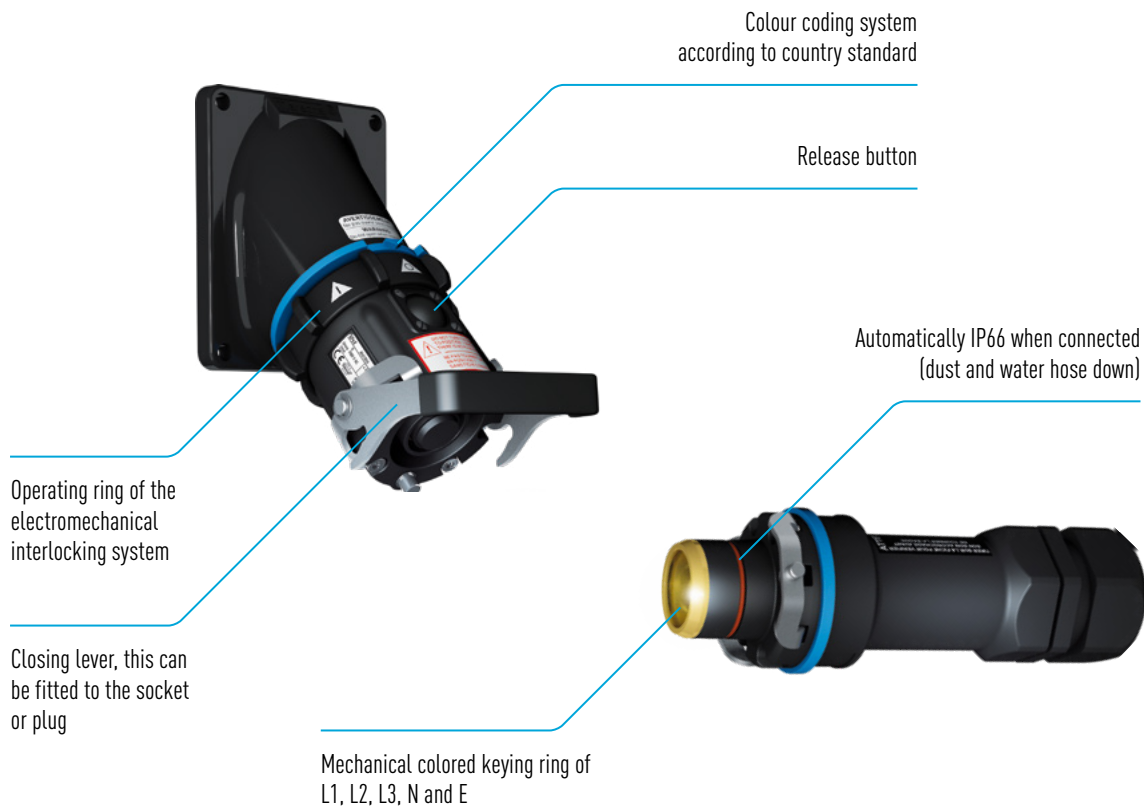


Up to 800 A/1 000 V

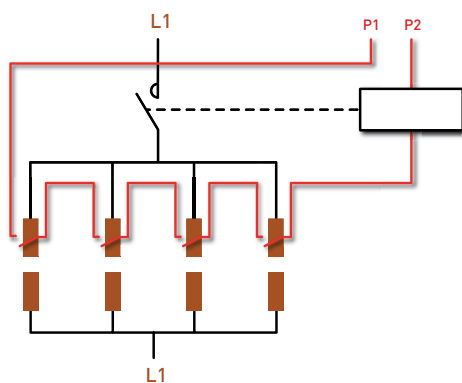
IP66/IP67

Temperature rating -40 °C to +60 °C

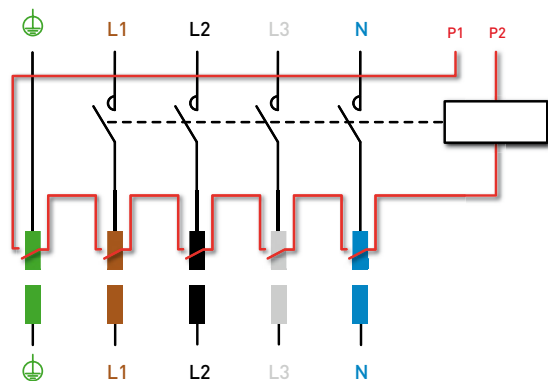
Electromechanical interlocking system



#### INTERLOCKING ELECTRICAL WIRING DIAGRAM:



#### INTERLOCKING ELECTRICAL WIRING DIAGRAM: LAST CONNECTION COMPLETES THE CIRCUIT



# 800 A

1 000 V  
U MAX

## SINGLE POLE POWER CONNECTOR SP



1 000 V AC  
1 500 V DC



IP66  
IP67



SEE  
TABLE



GRP



IK08



-40 °C  
+60 °C



+2 PIL



### LEVER MECHANISM

#### TO BE ORDERED SEPARATELY

Compatible with socket  
or inlet since 2018

Lever mechanism :  
454A876

Draw base : 454A396



### OTHER FEATURES

Rated current	Consult us for intensities higher than 700 A
Short-circuit current Icc	20 kA for 250 ms
Number of operations	2 000
Pre-wired pilot circuit	10 A/250 V

### SOCKET-OUTLET

female  
**SP (800 A)**  
WITHOUT LUG



**INLET male**  
**SP (800 A)**  
WITHOUT LUG



### COLOR coding

Type	Europe*	Reference	Reference
L1	Brown	4544001	4548001
L2	Black	4544002	4548002
L3	Grey	4544003	4548003
Neutral	Blue	454400N	454800N
Earth	Green	454400T	454800T
Positive	Red	454400P	454800P
Negative	Black	454400M	454800M

\* The indicated references are valid for Europe and Japan. for UK, South Africa and India : add the suffix P40.

Color coding is as follows: L1 => Red / L2 => Yellow / L3 => Blue / Neutral => Black / Earth => Green / Positive => Red / Negative => Black.

**SOCKET-OUTLET**  
 female  
**SP (800 A)**  
**WITHOUT LUG**

**INLET male**  
**SP (800 A)**  
**WITHOUT LUG**

**COLOR coding**

Type	Australia and New Zealand	Reference	Reference
L1	Red	4544001-P67	4548001-P67
L2	White	4544002-P67	4548002-P67
L3	Blue	4544003-P67	4548003-P67
Neutral	Black	454400N-P67	454800N-P67
Earth	Green	454400T-P67	454800T-P67
Positive	Red	454400P-P67	454800P-P67
Negative	Black	454400M-P67	454800M-P67

Type	USA	Reference	Reference
L1	Black	4544001-P80	4548001-P80
L2	Red	4544002-P80	4548002-P80
L3	Blue	4544003-P80	4548003-P80
Neutral	White	454400N-P80	454800N-P80
Earth	Green	454400T-P80	454800T-P80
Positive	Red	454400P-P80	454800P-P80
Negative	Black	454400M-P80	454800M-P80

## LUGS


**Lug choice depends on the cable:** the cross-section of the flexible cable mentioned in the table below is for information only. Please check dimensions as these may vary according to cable types and manufacturers.




Wiring (mm²)		Straight with hole	Straight threaded M12	Internal diameter (mm)	External diameter (mm)*
Flexible	Stranded	Reference	Reference		
50	70	454A50C	454A50D	11	15
70	95	454A70C	454A70D	13.1	18
95	120	45AA95C	454A95D	14.5	19
120	150	454A12C	454A12D	16.2	21
150	185	454A15C	454A15D	18	24
185	240	454A18C	454A18D	20.6	26
240	300	454A24C	454A24D	23.1	29
300	400	454A30C	454A30D	26.1	32
400	500	454A40C	454A40D	29.2	40
500	630	454A500C	454A500D	33.2	42
630	/	/	454A63D	37.6	52


For male contact, wiring with crimping lugs, according to NF C20-130 standard (for VDE 0220 standard, please contact us). Crimping: Double hexagonal crimping is recommended.

\*Select the crimping tool according to the outside diameter of your lug.

OPTIONS	Reference
<b>M12 CONNECTION PIECE*</b>	
	474A277

\*Wiring with straight cable lugs with terminals.

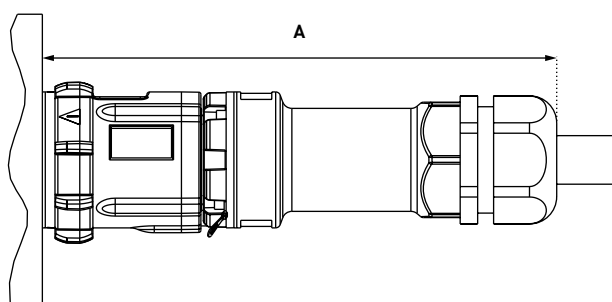
HANDLE	Input/ Cable outer Ø	Reference
<b>HANDLE STRAIGHT</b>		
	M50 17-38 mm	454A753
	M63 35-43 mm	454A783

SLEEVE	Reference
<b>SLEEVE INCLINED METAL 45°</b>	
	The inclined sleeve is recommended to reduce cable weight effect.
	454A027

ACCESSORIES	Reference
<b>LOCKING PIN FOR 2 PADLOCKS Ø 4 TO 8 mm (PADLOCKS NOT SUPPLIED)</b>	
	454A843

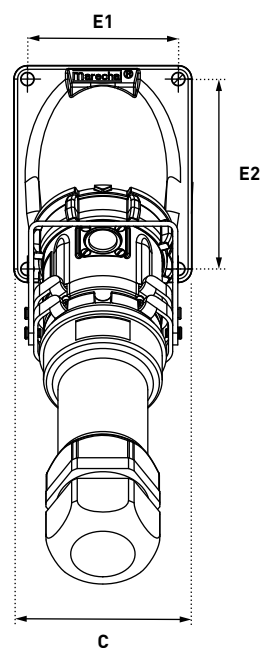
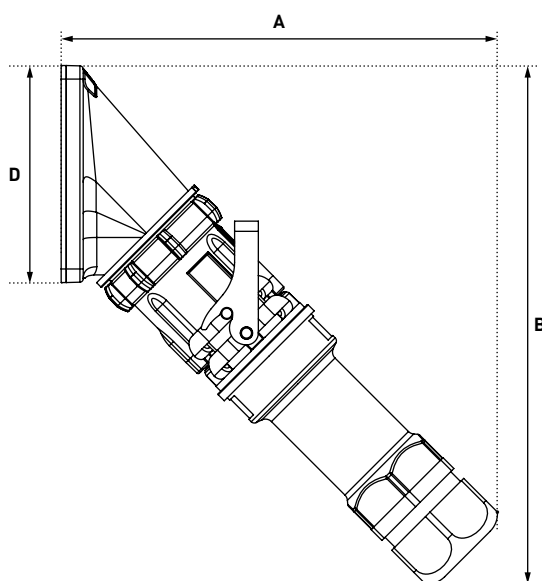
# DRAWINGS AND DIMENSIONS

## PLUG ON SOCKET-OUTLET



	A
SP M50	265
SP M63	291

## PLUG ON 45° INCLINED SOCKET OUTLET



	A	B	C	D	E1	E2
SP M50	254	306	105	128	89	112
SP M63	279	330	105	128	89	112



