



SPeX SINGLE POLE POWER CONNECTOR 680 A

- ▶ II2 G D Ex e IIC, Ex tb IIIC
- ▶ IP65/IP66 WATER- AND DUST-TIGHT
- ▶ ELECTROMECHANICAL INTERLOCKING SYSTEM
- ▶ MECHANIC AND VISUAL KEYING

The highest possible safety

- Reliable mechanical and electrical interlocking,
- IP2X socket-outlet when cap removed,
- Automatic IP65/IP66 when plug is connected.

An simple-to-use connector

- Straight insertion of the plug into the socket-outlet,
- Different mechanical keying for L1, L2, L3, N and E, positive and negative (d.c.)
- Visual identification by standard colours,

Performances

With 240 mm² wiring, the SPeX accepts a permanent current up to 570 A / 1000 V a.c. with T5 ATEX classification at 40 °C ambient temperature.

SPeX ATEX classification according to cable cross-section and Ta (ambient Temperature)

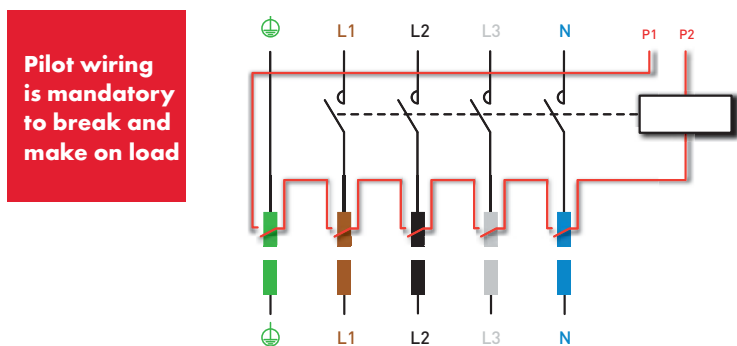
	$-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$	$-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$	$-20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$
	G D T5 / T56°C	G D T6 / T56°C	G D T5 / T76°C
70 mm ²	290 A	235 A	235 A
95 mm ²	415 A	335 A	335 A
120 mm ²	456 A	376 A	376 A
150 mm ²	493 A	415 A	415 A
185 mm ²	530 A	450 A	450 A
240 mm ²	570 A	497 A	497 A
300 mm ²	620 A	540 A	540 A
400 mm ²	680 A	600 A	600 A



Energy distribution system with separate connection of contacts

The pilot contact breaks the circuit in conformity with ATEX Directive (increased safety "e").

The breaking system is not supplied





SPECIFICATION

IP65/IP66 single pole power connector with increased safety «e» and «tb» for hazardous areas (ATEX), comply with MARECHAL® international standard.

MAIN FEATURES

Rated current	according to category and cable	Ambient temperature	see table
Maximum voltage a.c.	1000 V	Wiring (min - max)	see table
Maximum voltage d.c.	1500 V	Keying position	mechanical (5) and visual
Short-circuit current Icc	20 kA during 250 ms	Protection mode	e
IP protection - lid closed	IP65/IP66	ATEX zones	1 & 2, 21 & 22
IP protection - connected plug	IP65/IP66	Number of operations	2000
Shock resistance	IK08	Pre-wired pilot circuit	6 A / 250 V

SOCKET-OUTLET female
SPeX (680 A)
without lug



INLET male
SPeX (680 A)
without lug



Type	European color coding*	Part no.	Part no. 17 to 24 mm	Part no. 17 to 31 mm	Part no. 24,5 to 37 mm	Part no. 34 to 47 mm
L1	Brown	4647001	464100132P	464100140P	464100150P	464100163P
L2	Black	4647002	464100232P	464100240P	464100250P	464100263P
L3	Grey	4647003	464100332P	464100340P	464100350P	464100363P
Neutral	Blue	464700N	464100N32P	464100N40P	464100N50P	464100N63P
Earth	Green	464700T	464100T32P	464100T40P	464100T50P	464100T63P
Positive	Red	464700P	464100P32P	464100P40P	464100P50P	464100P63P
Negative	Black	464700M	464100M32P	464100M40P	464100M50P	464100M63P

* Part-numbers valid for Europe and Japan.
For other countries, replace the prefix 46 by : 42 for the USA / 43 for Australia / 44 for UK and South-Africa.

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)
Flexible	Stranded	Part no.	Part no.	
50	70	454A50C	454A50D	11
70	95	454A70C	454A70D	13,1
95	120	454A95C	454A95D	14,5
120	150	454A12C	454A12D	16,2
150	185	454A15C	454A15D	18
185	240	454A18C	454A18D	20,6
240	300	454A24C	454A24D	23,1
300	400	454A30C	454A30D	26,1
400	500	454A40C	454A40D	29,2

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

MARECHAL ELECTRIC MAROMME

II2 G D Ex e IIC Gb Ex tb IIIC Db

IECEx LCI 12.0005X / LCIE 07 ATEX 6073 X