



THORNE &
DERRICK
INTERNATIONAL

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CS1000

SINGLE-POLE POWER CONNECTORS

400 A / 1 000 V

- ▶ UP TO 400 A / 1 000 V
- ▶ AUTOMATIC IP66/IP67 WATER- AND DUST-TIGHT
- ▶ MECHANICAL FOOL-PROOFING
- ▶ PADLOCKING RING

Perfect safety

- Socket-outlet: IP2X finger protection, without cap.
- IP66/IP67 watertightness with cap ; or upon connection.
- Locking mechanism preventing disconnection by accident.

Easy connection

- Mechanical fool-proofing system between phases, neutral and earth,
- Standardised colour coding (according to local regulation),
- Replacable crimping lug in case of cable damage.

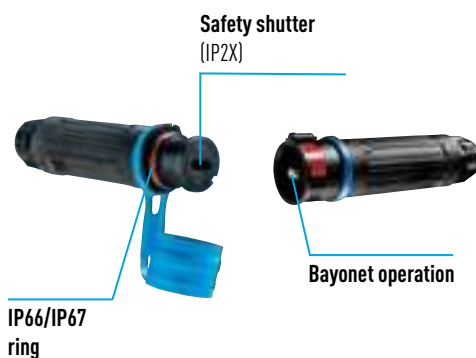
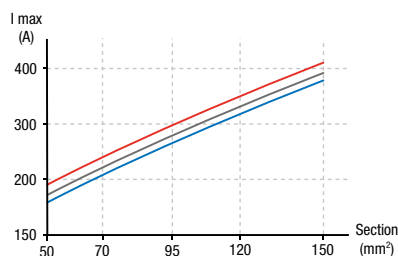
High Performance

Thanks to its silver butt-contact technology the CS1000 connector withstands permanent current of 400 A / 1 000 V a.c. or 1 500 V d.c. (wiring from 50 to 150 mm²).

CS1000 electrical rating

Permanent permissible current for a H07RNF cable, at 30 °C ambient temperature

- Maximum permanent permissible current in the CS1000 after 2 000 operations depending on cable cross-section
- Maximum intensity of permanent current specified by the cable manufacturers to maintain a conductor core temperature < 85 °C
- Maximum intensity of permanent current specified by the NFC 15-100 or the IEC 60 364-5-52 standards to maintain a conductor core temperature < 70 °C



5 mechanical keying positions





■ MAIN FEATURES

Rated current (depending on the wire ø)	400 A	Shock resistance	IK08
Maximum voltage a.c.	1000 V	Ambient temperature	-40 °C to +60 °C
Maximum voltage d.c.	1500 V	Flexible wiring (min-max)	50 - 150 mm ²
Short-circuit current I _{cc}	20 kA during 250 ms	Keying positions	mechanical (5) and visual
Protection	IP66/IP67	Number of operations	2000

SOCKET-OUTLET
female
CS1000 (400 A)
Without lug



INLET male
CS1000 (400 A)
Without lug



Type	European color coding*	Part no.	Part no.
L1	Brown	4534001	4538001
L2	Black	4534002	4538002
L3	Grey	4534003	4538003
Neutral	Blue	453400N	453800N
Earth	Green	453400T	453800T
Positive	Red	453400P	453800P
Negative	Black	453400M	453800M

* Part-numbers valid for Europe and Japan.

For other countries: add the suffix : P80 for the USA / P67 for Australia / P40 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 (mm ²)		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

* Wiring with crimping lugs, according to NF C20-130 standard (for VDE 0220 standard, please contact us)

Crimping: Double hexagonal crimping is recommended.

PADLOCKING RING



453A844

SLEEVE**
Inclined 30° with
adapter plate



453A027

ADAPTER PLATE



453A540

HANDLE
Straight



M32

453A753

14-25 mm

INLET CAP



453A126

M40 453A783 18-32 mm

** The inclined sleeve is recommended to reduce cable weight effect.