

500 A

# CS1000 SINGLE POLE CONNECTOR



## CS1000

- 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 5000 A that depend on operating cycle.
- Are robust connectors with outstanding durability.

## CS1000 CONNECTORS COMPLY WITH:

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



USA and North  
America



Canada



Russia and Eurasia

## 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.

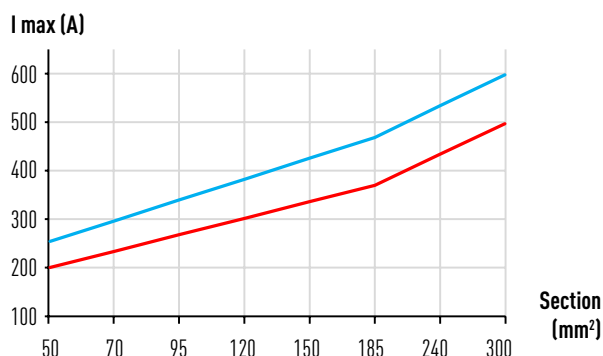
## HIGH PERFORMANCE

- Thanks to its silver butt-contact technology the CS1000 connector withstands permanent current of 500 A/1 000 V AC or 1 500 V DC (wiring from 50 to 400 mm<sup>2</sup>).

## CS1000 CHARACTERISATION

Permanent and non-intermittent on-load current permitted for a new CS1000, 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 500 A/1 000 V

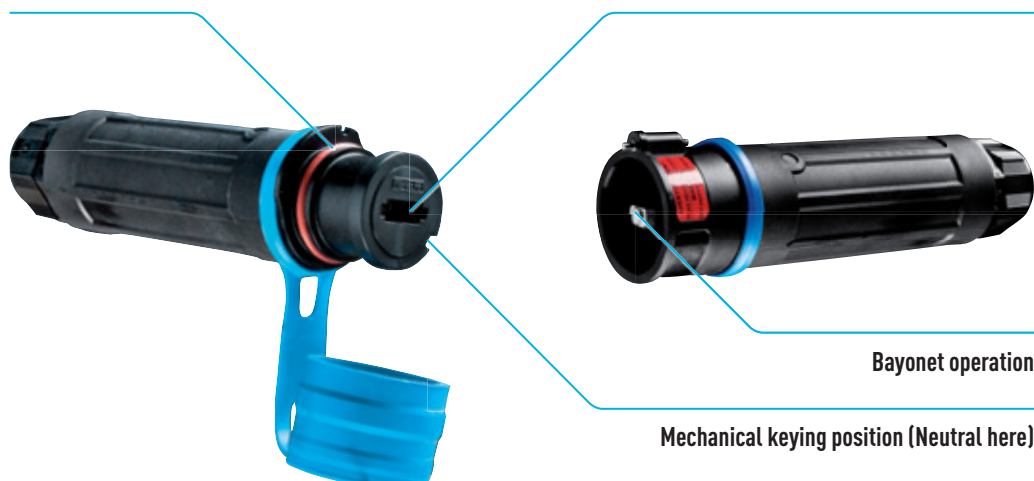
IP66/IP67

Temperature rating -40 °C to +60 °C

Mechanical padlocking ring

IP66/IP67  
seal ring

Safety shutter  
(IP2X protection)



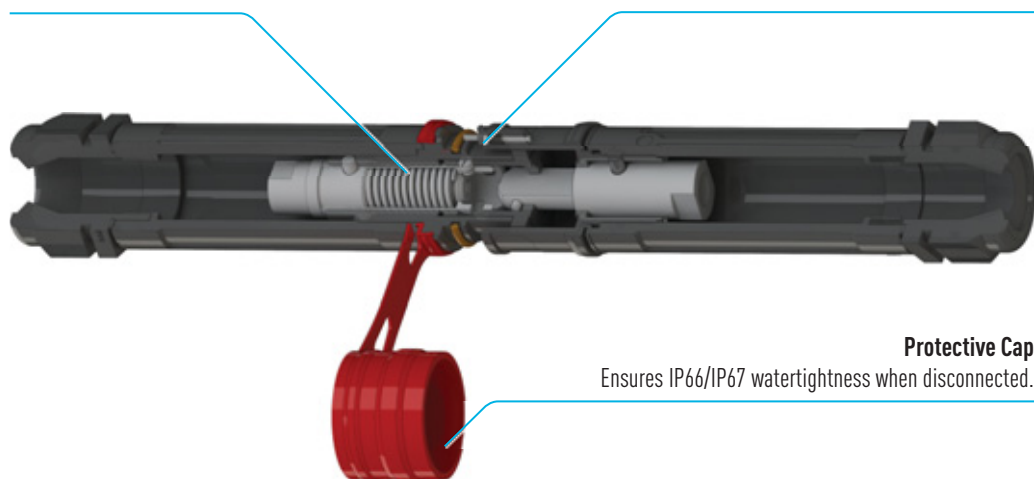
#### Spring Loaded Butt-Style Contacts

Ensures optimal contact force and superior electrical performance over thousands of operations.

#### Silver-Nickel Contact Material

Solid silver-nickel contact surfaces provide:

- superior conductivity,
- corrosion resistance,
- durability.



### 5 MECHANICAL KEYING POSITIONS (EUROPEAN COLOR CODING)

Earth

L1

L2/Negative

L3/Positive

Neutral



# 500 A <sup>1 000 V</sup> U MAXI

## SINGLE POLE POWER CONNECTOR CS1000



1 000 V AC  
1 500 V DC



IP66  
IP67



50-300 mm<sup>2</sup> (1)  
70-400 mm<sup>2</sup> (2)



GRP



IK08



-40 °C  
+60 °C

(1) Flexible wiring (min.-max.).  
(2) Stranded wiring (min.-max.).

### OTHER FEATURES

Icc : rated conditional short circuit current (kA)	20 kA during 250 ms
Number of operations	2 000
Keying positions	5, mechanical and visual

### COLOR coding

Type	Europe*	Reference	Reference
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

**SOCKET-OUTLET**  
female  
**CS1000**  
**WITHOUT LUG**



**INLET male**  
**CS1000**  
**WITHOUT LUG**



\* 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  
**CS1000**  
**WITHOUT LUG**



**INLET male**  
**CS1000**  
**WITHOUT LUG**



**COLOR coding**

Type	Australia and New Zealand	Reference	Reference
L1	Red	4534001-P67	4538001-P67
L2	White	4534002-P67	4538002-P67
L3	Blue	4534003-P67	4538003-P67
Neutral	Black	453400N-P67	453800N-P67
Earth	Green	453400T-P67	453800T-P67
Positive	Red	453400P-P67	453800P-P67
Negative	Black	453400M-P67	453800M-P67

Type	USA	Reference	Reference
L1	Black	4534001-P80	4538001-P80
L2	Red	4534002-P80	4538002-P80
L3	Blue	4534003-P80	4538003-P80
Neutral	White	453400N-P80	453800N-P80
Earth	Green	453400T-P80	453800T-P80
Positive	Red	453400P-P80	453800P-P80
Negative	Black	453400M-P80	453800M-P80

## COPPER 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	454A95C	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

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.

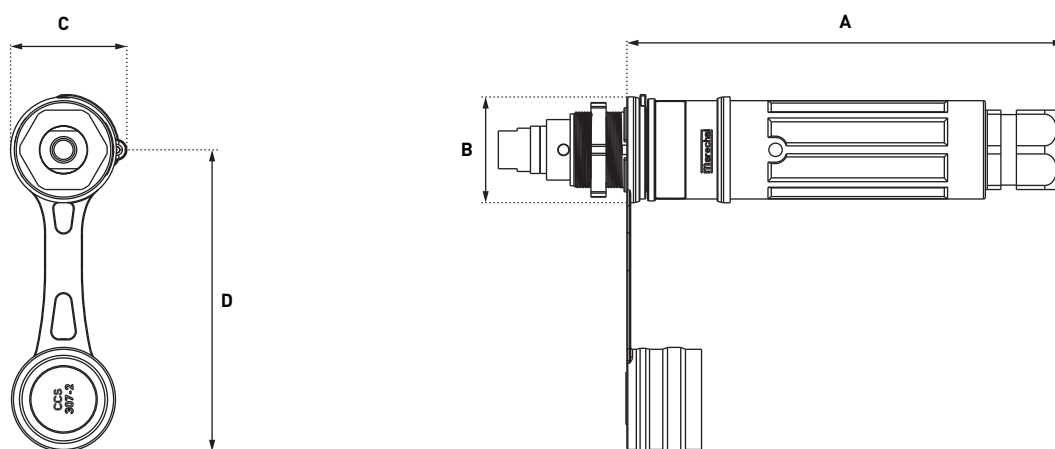
\*Choose the crimping tool according to the external diameter of your lug.

OPTIONS	Reference
PADLOCKING RING	
	453A843
INLET CAP	
	453A126
ADAPTER PLATE	
	453A540
ADDITIONAL UNLOCKING KEY	
	453A396

SLEEVE	Reference	
SLEEVE INCLINED 30° WITH ADAPTER PLATE		
	The inclined sleeve is recommended to reduce cable weight effect. 453A027	
HANDLE	Input/ Cable outer Ø	Reference
HANDLE STRAIGHT		
	M32/14-25 mm	453A753
	M40/18-32 mm	453A783
HANDLE + MANDATORY ADAPTATION PLATE		
Designed for lugs with part numbers starting from 454A24D.		
	454A753 (M50/17-38 mm) +	453A457-SP
	454A783 (M63/35-43 mm) +	453A457-SP

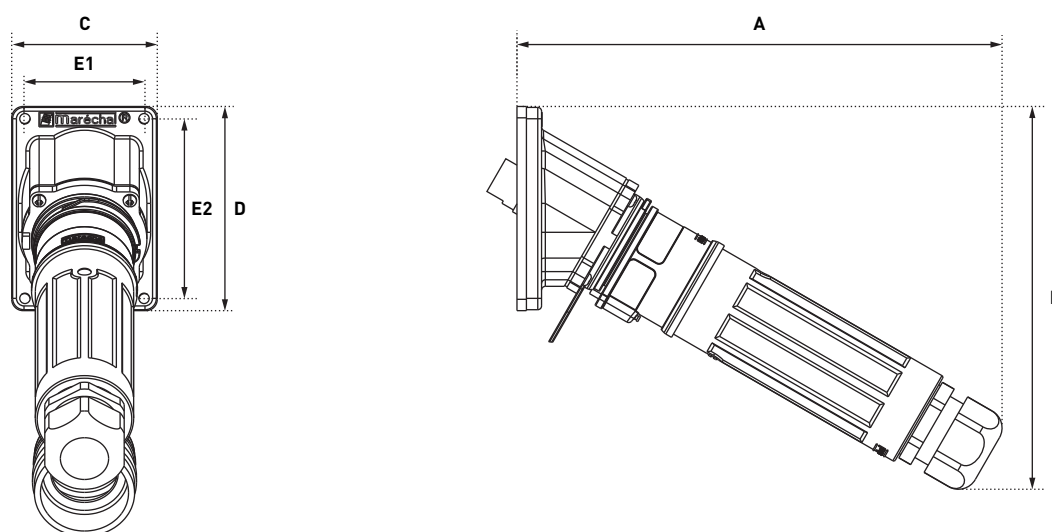
# DRAWINGS AND DIMENSIONS

## PLUG ON SOCKET-OUTLET



A	B	C	D
231	56	56	160

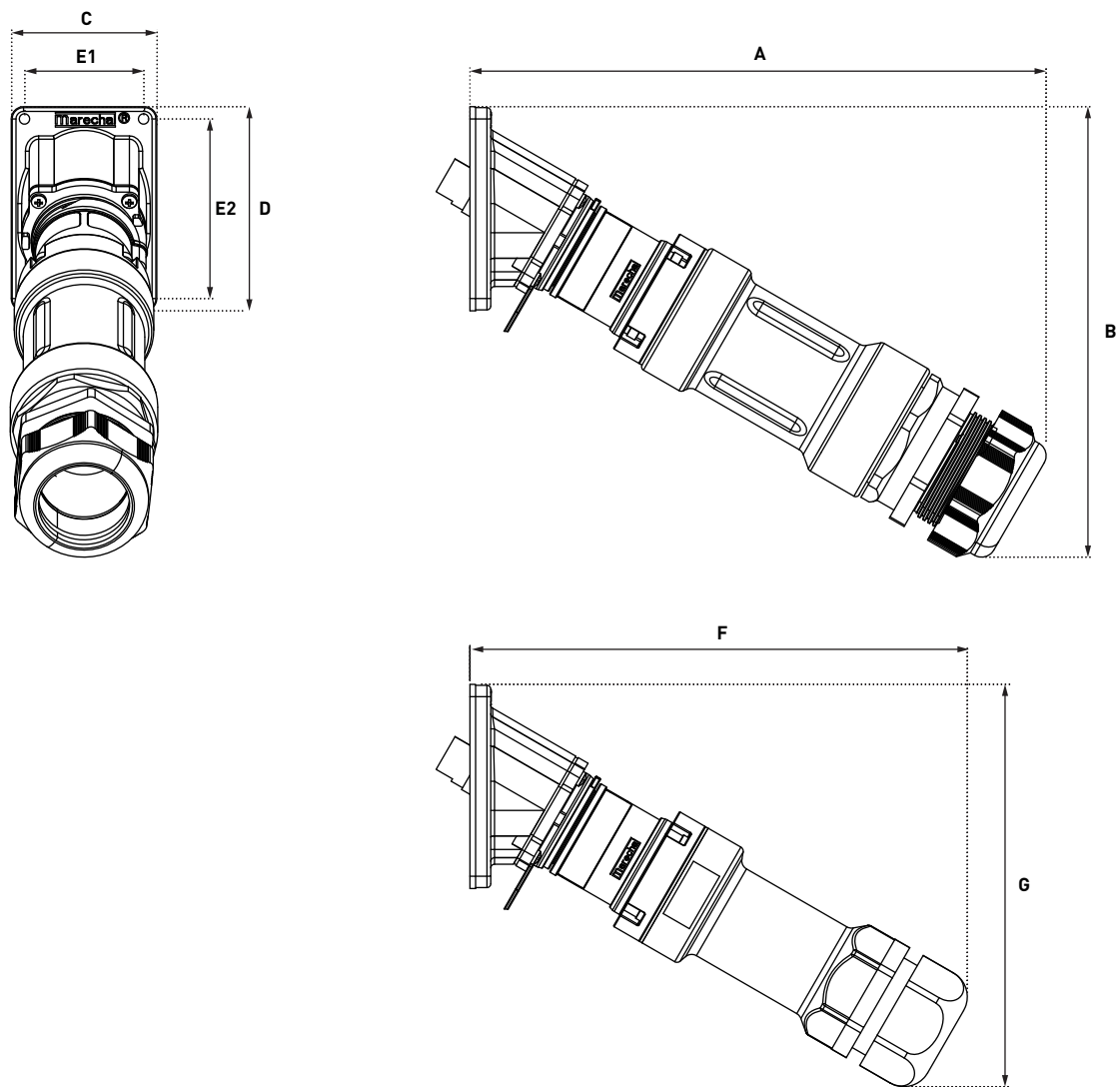
## PLUG ON 30° INCLINED SOCKET-OUTLET VERSION WITH HANDLE REF. 453A783 & 453A753



A	B	C	D	E1	E2
257	202	77	108	64	95

PLUG ON 30° INCLINED SOCKET-OUTLET

VERSION WITH HANDLE REF. 454A783 + 453A457-SP (A, B) & 453A753 + 453A457-SP (F, G)



A	B	C	D	E1	E2	F	G
305	238	77	108	63	95	263	213