

PNC and PN are respectively, a connector and a plug and socket-outlet waterproof, compact and robust.

Conformity with the following regulations and standards(a):

European Directives 2014/35/EU Low Voltage and 2011/65/EU RoHS (affixing of CE marking), REACH European Regulation,

PNC : standards IEC/EN 61984, IEC/EN 60068-2-6.

PN : standards IEC/EN 60309-1, IEC/EN 60309-4 (essential safety requirements), UL 1682 (USA), CSA C22.2 N° 182.1-07 (Canada).

Certified by the following certification bodies:

PNC : TR CU (Russia).

PN : UL (USA), VDE (Germany), TR CU (Russia), CSA (Canada).



PNC



PN

General information

	PNC	PN poly	PN metal
(b) I_n	16 A	30 A	30 A
U_{max} (V AC/V DC)	480 V AC	500/750	500/750
(c) Frequency (Hz)	≤ 400	≤ 400	≤ 400
(d) Number of contacts	4P+E	4P+E	4P+E
(e) Number of keying positions	1	16	16
Connection (min - max): mm ²	Slotted head screw / Vis tête cylindrique fendue		
Flexible wiring: power contact	0,75 - 2,5	1 - 6	1 - 6
Stranded wiring: power contact	0,75 - 2,5	1,5 - 10	1,5 - 10
Tightening torque: power contact	0,5 Nm	0,6 Nm	0,6 Nm
Wiring lugs	X	Option	Option
Uimp: impulse withstand voltage	5 kV	6 kV	6 kV

Used as connector according to IEC/EN 61984: In

(f) U_{max} (V AC/V DC)	16 A	30 A	30 A
	480 V AC	500/750	500/750

Number of operations

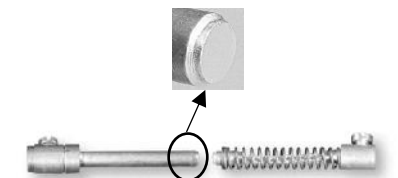
Mechanical	2 000	2 000	2 000
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Thermal features

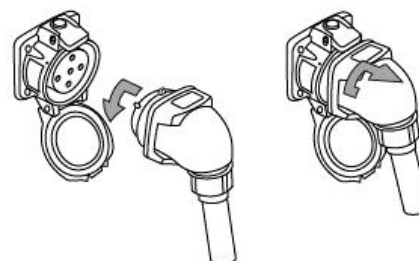
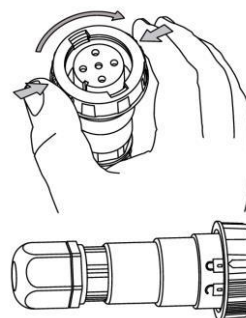
Temperature of use (mini / maxi): °C	-40 / +100	-40 / +60	-40 / +60
Storage temperature (mini / maxi): °C	-40 / +100	-40 / +80	-40 / +80
Maximal temperature rise (Kmax): new device	26 K	50 K	50 K
Time constant (to reach 63% of Kmax)	19 mn	15 mn	15 mn

Mechanical features

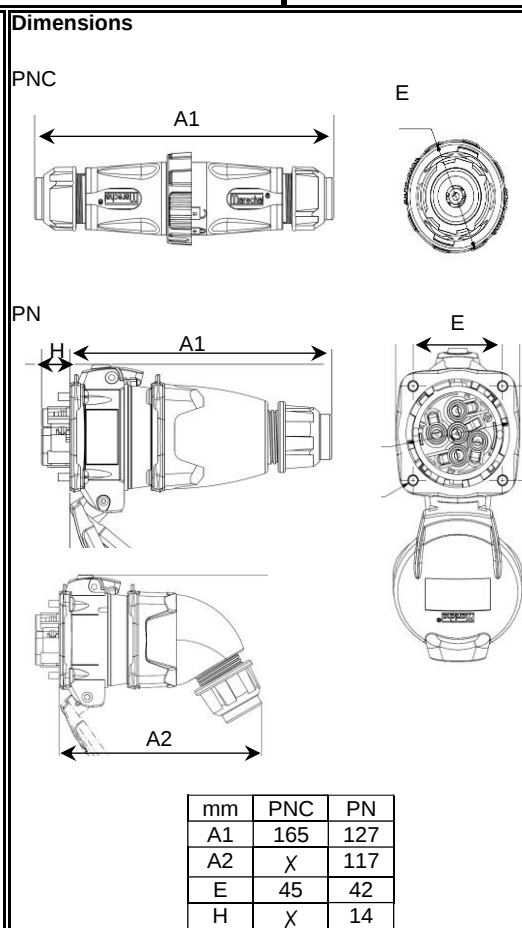
(g, h) IP: connected device	IP66/IP67/ IP68/IP69	IP66/IP67	IP66/IP67
(g, h) IP: lid/cap closed	IP66/IP67/ IP69	IP66/IP67	IP66/IP67
(g) IP: socket-outlet with lid/cap opened	IP2X	IP2X	IP2X
(i) IK	IK08	IK08	IK09
Unlocking / opening	Locking ring / Bague de verrouillage	Rotation	
Enclosure: material	GRP (poly)	GRP (poly)	Alu alloy / Alliage Alu
MARECHAL® standard color	Black / Noir	Blue / Bleu	Blue / Bleu
Other colors	X	On request / Sur demande	
Vibrations resistance	✓	X	X
Resistance of chemical agents	Contact us / Nous contacter		✓
Protection against UV according to UL 746C	X	f1	N/A
Salt mists resistance	> 50 000 h	> 50 000 h	Contact us / Nous contacter



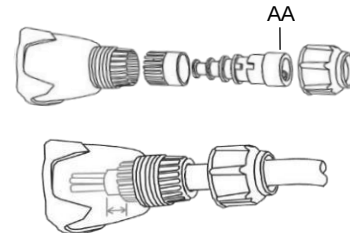
Contacts on silver nickel alloy tips (AgNi)



... Mechanical features	PNC	PN poly Stainless steel / Acier inoxydable	PN metal	Dimensions
Screws and bolts				
Weight of inlet without accessories: (approx)	0,03 kg	0,07 kg	0,13 kg	
Weight of outlet without accessories: (approx)	0,05 kg	0,12 kg	0,22 kg	
Main options available				
Socket-outlet opening up to 180°	X	✓	✓	
Self-returning lid	X	✓ (IP55)	✓ (IP55)	
Inlet cap	✓ (IP66/IP67)	✓	✓	
Outlet cap	✓ (IP66/IP67)	X	X	
Locking / padlocking	X	✓	✓	
BTR screw locking	X	✓	✓	
Industrial-domestic adapter	X	✓	✓	
(i) Electromagnetic compatibility (EMC)	X	✓	✓	
Reversed contacted	X	✓	✓	
PNC adaptation plate for PN accessories	✓	X	X	
Mounting accessories				
Poly sleeve: angle (°)	0	30 / 70		
Metal sleeve: angle (°)	X	0 / 30 / 45		
Poly box: angle (°)	X	0 / 30		
Metal box: angle (°)	X	0		
Poly box + poly sleeve: angle (°)	X	70		
Metal box + poly sleeve: angle (°)	X	30		
Metal box + metal sleeve: angle (°)	X	45		
Poly straight handle with integrated cable gland: clamping (mm)	11/15	5/21		
Threaded poly straight handle	X	M20 - M32		
Threaded metal straight handle	X	M20 - M32		
Poly 60° handle with integrated cable gland: clamping (mm)	X	9/18		
Poly straight handle + separated poly cable gland: clamping (mm)	X	5/25		
Metal straight handle + separated metal cable gland: clamping (mm)	X	7/23		
Spare parts available				
Inlet or socket-outlet isolating element	X	✓	✓	
Inlet or socket-outlet contacts	X	✓	✓	
Inlet or socket-outlet colored gasket	X	✓	✓	
Inlet or socket-outlet casing	X	✓	✓	
Socket-outlet casing gasket	X	✓	✓	
Gaskets	X	✓	✓	



Poly straight handle with integrated cable gland



AA : 5 sizes gasket

- (a) European Regulation REACH: registration, evaluation, authorisation and restriction of chemicals
IEC/EN 60309-1 : "Plugs, socket-outlets and couplers for industrial purposes – Part 1: General requirements"
IEC/EN 60309-4 : "Plugs, socket-outlets and couplers for industrial purposes – Part 4: Switched socket-outlets and connectors with or without interlock"
IEC/EN 61984 : "Connectors – Safety requirements and tests"
IEC/ EN 60068-2-6 : "Environmental testing - Part 2-6 : Test Fc: Vibration (sinusoidal) "
UL 1682 : "Plugs, Receptacles, and Cable Connectors of the Pin and Sleeve Type"
CSA C22,2 No 182,1-07 : "Plugs, Receptacles, and Cable Connectors of the Pin and Sleeve Type"
- (b) In : Rated current, current value defined by the manufacturer
- (c) Other frequency: contact us
- (d) Silver contacts on silver-nickel alloy tips (AgNi)
- (e) Number of voltage / frequency / grid, keying positions
- (f) For direct current applications : contact us
- (g) IP : Degrees of protection provided by enclosures according to IEC/EN 60529 standard
- (h) IPX8 : 10 m depth during 15 mn (others features : contact us)
IPX9 : 100 bar, 80°C
- (i) IK : Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts according to IEC/EN 62262 standard
- (j) CEM option : for metal enclosure only

