

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

Comply with the following regulations and standards(a):

European Directives Low Voltage and RoHS (affixing of CE marking), REACH European Regulation,

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

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

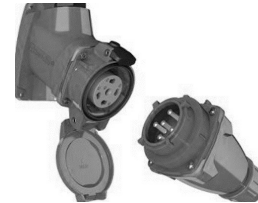
Certified by the following certification bodies:

PNC : TR CU (Russia).

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

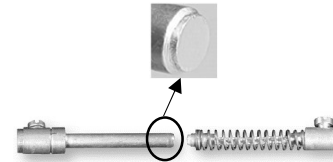


PNC

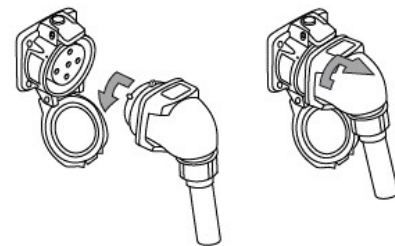
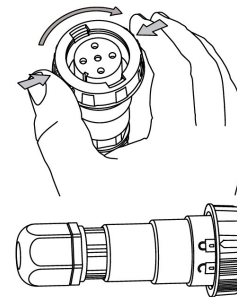


PN

General information		PNC	PN poly	PN metal
(b)	I <sub>n</sub>	16 A	30 A	30 A
	U <sub>max</sub> (V AC/ V DC)	480 V AC	500/750	500/750
(c)	Frequency (Hz)	≤ 500	≤ 500	≤ 500
(d)	Number of contacts	4P+E	4P+E	4P+E
(e)	Number of keying positions	1	16	16
	Connection (min - max): mm <sup>2</sup>	Slotted head screw		
	Flexible wiring (Cu): power contact	0,75 - 2,5	1 - 6	1 - 6
	Stranded wiring (Cu): 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
(f)	Pollution degree	3	3	3
<b>Used as connector according to IEC/EN 61984: I<sub>n</sub></b>		16 A	30 A	30 A
(g)	U <sub>max</sub> (V AC/ V DC)	480 V AC	500/750	500/750
<b>Number of operations</b>				
	Mechanical	2 000	5 000	5 000
<b>Thermal features</b>				
	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
<b>Mechanical features</b>				
(h.i)	IP: connected device	IP66/IP67/ IP68/IP69	IP66/IP67	IP66/IP67
(h.ii)	IP: lid/cap closed	IP66/IP67/ IP69	IP66/IP67	IP66/IP67
(h)	IP: socket-outlet with lid/cap opened	IP2X	IP2X	IP2X
(j)	IK	IK08	IK09	IK09
	Unlocking / opening	Locking ring	Rotation	
(k)	Enclosure: material	GRP (poly)	GRP (poly)	Aluminium alloy
	MARECHAL® standard color	Black	Blue	Blue
	Other colors	X	Contact us	
	Vibrations resistance	✓	X	X
	Resistance of chemical agents	Contact us		✓
	Protection against UV according to UL 746C	X	f1	N/A
	Salt mists resistance	> 50 000 h	> 50 000 h	Contact us



Contacts with silver nickel alloy tips (Ag/Ni : 85/15)



**... Mechanical features**

 Screws and bolts  
 Weight of inlet without accessories: (approx)  
 Weight of outlet without accessories: (approx)

PNC	PN poly	PN metal
	Stainless steel	
0,03 kg	0,07 kg	0,13 kg
0,05 kg	0,12 kg	0,22 kg

**Main options available**

 Socket-outlet opening up to 180°  
 Self-returning lid  
 Inlet cap  
 Outlet cap  
 Locking / padlocking  
 BTR screw locking  
 Industrial-domestic adapter  
 (i) Electromagnetic compatibility (EMC)  
 Reversed contacted  
 PNC adaptor plate for PN accessories

X	✓	✓
X	✓ (IP55)	✓ (IP55)
✓	✓	✓
(IP66/IP67)	✓	✓
✓	X	X
(IP66/IP67)	X	X
X	✓	✓
X	✓	✓
X	✓	✓
X	✓	✓
X	✓	✓
✓	X	X

**Mounting accessories**

 Poly sleeve: angle (°)  
 Metal sleeve: angle (°)  
 Poly box: angle (°)  
 Metal box: angle (°)  
 Poly box + poly sleeve: angle (°)  
 Metal box + poly sleeve: angle (°)  
 Metal box + metal sleeve: angle (°)  
 Poly straight handle with integrated cable gland:  
 clamping (mm)  
 Threaded poly straight handle  
 Threaded metal straight handle  
 Poly 60° handle with integrated cable gland: clamping  
 (mm)  
 Poly straight handle + separated poly cable gland:  
 clamping (mm)  
 Metal straight handle + separated metal cable gland:  
 clamping (mm)

0	30 / 70
X	0 / 30 / 45
X	0 / 30
X	0
X	70
X	30
X	45
11/15	5/21
X	M20 - M32
X	M20 - M32
X	9/18
X	5/25
X	7/23

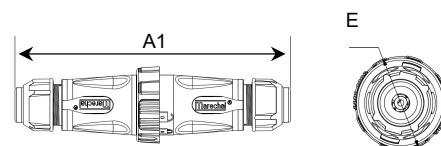
**Spare parts available**

 Inlet or socket-outlet isolating element  
 Inlet or socket-outlet contacts  
 Inlet or socket-outlet colored gasket  
 Inlet or socket-outlet casing  
 Socket-outlet casing gasket  
 Gaskets

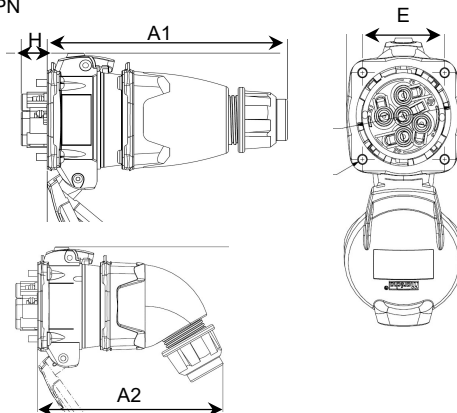
X	✓	✓
X	✓	✓
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X	✓	✓
X	✓	✓
X	✓	✓

**Dimensions**

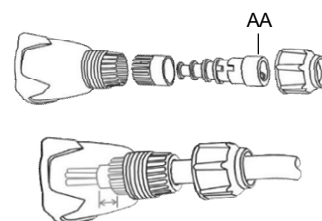
PNC



PN



mm	PNC	PN
A1	165	127
A2	X	117
E	45	42
H	X	14

**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) Contacts with silver nickel alloy tips (Ag/Ni : 85/15)  
 (e) Number of voltage / frequency / grid, keying positions  
 (f) For direct current applications : contact us  
 (g) Pollution degree [IEV 581-21-07]: "Numerical characterizing the expected pollution of the micro-environment."  
 "Degree 3. Conductive pollution occurs, or dry, non-conductive pollution occurs which becomes conductive due to condensation."  
 (h) IP : Degrees of protection provided by enclosures according to IEC/EN 60529 standard  
 (i) IPX8 : 10 m depth during 15 days (specific part number: contact us)  
 IPX9 : 100 bar, 80°C  
 (j) IK : Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts according to IEC/EN 62262 standard  
 (k) GRP : Glass-reinforced technical plastic  
 (l) CEM option : for metal enclosure only