

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), Intertek-RETIE (Colombia).

PN : UL (USA), TR CU (Russia), CSA (Canada), Intertek-RETIE (Colombia).



Intertek

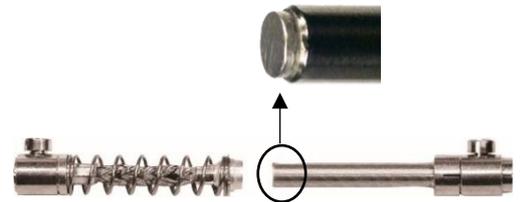
PNC



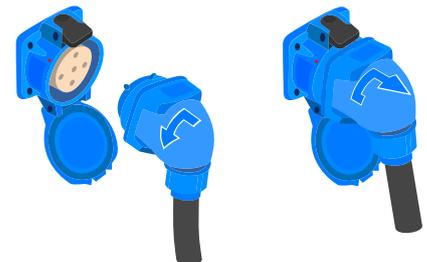
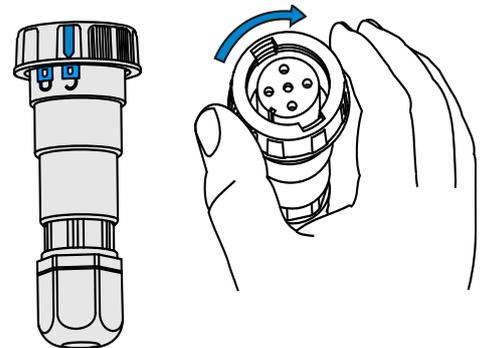
PN



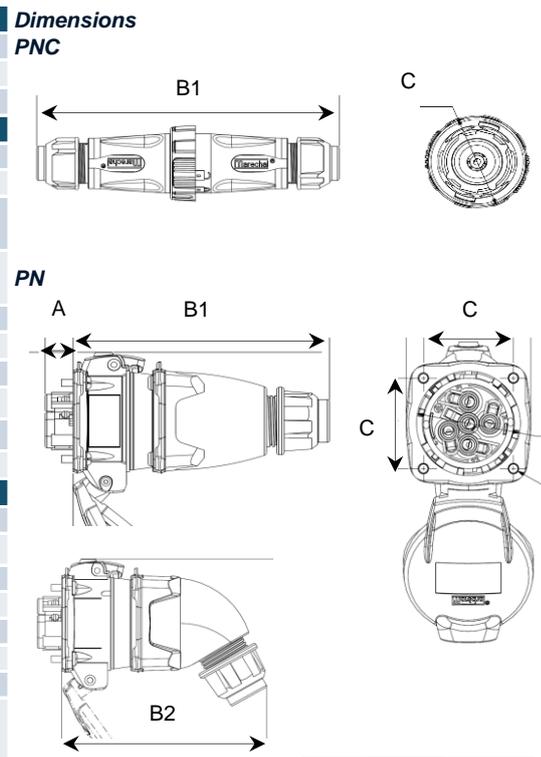
General information		PNC	PN poly	PN metal
(b)	I <sub>n</sub>	16 A	30 A	30 A
	U <sub>max</sub> (V AC/V DC)	480	500/750	500/750
(c)	Frequency max. (Hz)	500 Hz	500 Hz	500 Hz
(d)	Number of contacts	4P+E	4P+E	4P+E
(e)	Number of keying positions	1	16	16
	Connection (min - max): mm <sup>2</sup>			
	Flexible conductors (Cu): main contacts	0.75 - 2.5	1 - 6	1 - 6
	Rigid/stranded conductors (Cu): main contacts	0.75 - 2.5	1.5 - 10	1.5 - 10
	Tightening torque - main contacts (Nm)	0.5 N.m	0.6 N.m	0.6 N.m
	Wiring lugs		Option	Option
	U <sub>imp</sub> : impulse withstand voltage	5 kV	6 kV	6 kV
(f)	Pollution degree	3	3	3
Emploi comme connecteur selon IEC/EN 61984: In		16 A	30 A	30 A
(g)	U <sub>max</sub>	480 V AC	500 V AC	500 V AC
		480 V DC	750 V DC	750 V DC
Number of operations				
	Mechanical	2000	5000	5000
Thermal features				
	Temperature of use mini/maxi (°C)	-40/+100°C	-40/+60°C	-40/+60°C
	Storage temperature mini/max: (°C)	-40/+100°C	-40/+80 °C	-40/+80 °C
	Maximal temperature rise (Kmax)	26 K	50 K	50 K
	Time constant (to reach 63 % of Kmax)	19 mn	15 mn	15 mn
Mechanical features				
(h.i)	Watertightness : connected device	IP66/IP67/ IP68/IP69	IP66/IP67	IP66/IP67
(h.i)	Watertightness: lid/cap closed	IP66/IP67/ IP69	IP66/IP67	IP66/IP67
(h)	Watertightness : socket-outlet with lid/cap opened	IP2X	IP2X	IP2X
(i)	IK	IK08	IK09	IK09
	Retaining/releasing device	Locking ring	Rotation	
(k)	Casing	GRP (poly)	GRP (poly)	Aluminium
	Standard color	Black	MARECHAL® Blue	
	Other colors	On request		
	Vibrations resistance	✓		
	Resistance to chemical agents	Contact us		✓
	Protection against UV (according to UL 746C or equivalent)		f1	NA
	Salt mist resistance	> 50 000 h	> 50 000 h	Contact us



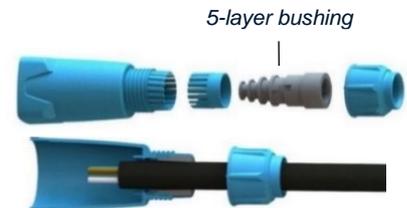
Contacts with silver nickel alloy tips (Ag/Ni : 85/15)



Mechanical features	PNC	PN poly	PN metal
Screws and bolts	Stainless steel		
Weight of inlet without accessory (≈)	0.03 kg	0.1 kg	0.1 kg
Weight of socket-outlet without accessory (≈)	0.05 kg	0.2 kg	0.2 kg
Main options			
Socket-outlet opening up to 180°		✓	✓
Self-returning lid		IP55	IP55
Inlet cap	IP66/IP67	IP66/IP67	IP66/IP67
Outlet cap	IP66/IP67		
Locking / padlocking		✓	✓
Screw locking		✓	✓
Industrial-domestic adapter		✓	✓
(i) Electromagnetic compatibility (EMC)		✓	✓
Reversed contacts		✓	✓
PNC adaptor plate for PN accessories	✓		
Mounting accessories			
Poly sleeve: angle (°)	0	30/70	
Metal sleeve: angle (°)		0/30/45	
Poly box: angle (°)		0/30	
Metal box: angle (°)		0	
Poly box + poly sleeve: angle (°)		70	
Metal box + poly sleeve: angle (°)		30	
Metal box + metal sleeve: angle (°)		45	
Poly straight handle with built-in cable gland: range take (mm)	11 - 15	5 - 21	
Threaded poly straight handle		M20 - M32	
Threaded metal straight handle		M20 - M32	
Poly 60° handle with built-in cable gland: range take (mm)		9 - 18	
Poly straight handle + separated poly cable gland: range take (mm)		5 - 25	
Metal straight handle + separated metal cable gland: range take (mm)		7 - 23	
Spare parts			
Inlet or socket-outlet interior moulding		✓	✓
Inlet or socket-outlet contacts		✓	✓
Inlet or socket-outlet colored gasket		✓	✓
Inlet or socket-outlet casing		✓	✓
Socket-outlet casing gasket		✓	✓
Gaskets		✓	✓
<b>Catalog: Web link</b>	<b>Click !</b>	<b>Click !</b>	<b>Click !</b>



**Poly straight handle with built-in cable gland**



- (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 as defined by the manufacturer
- (c) Other frequency: contact us
- (d) Contacts with silver-nickel 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]: "Numeral 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 (IEC/EN 60529)
- (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 against mechanical impacts (IEC/EN 62262)
- (k) GRP : Glass-reinforced technical plastic
- (l) Suitable for EMC environments: use of metallic housings and accessories, and cable gland with shielding recovery