

# PLASTIC SERIES

## 1P SERIES

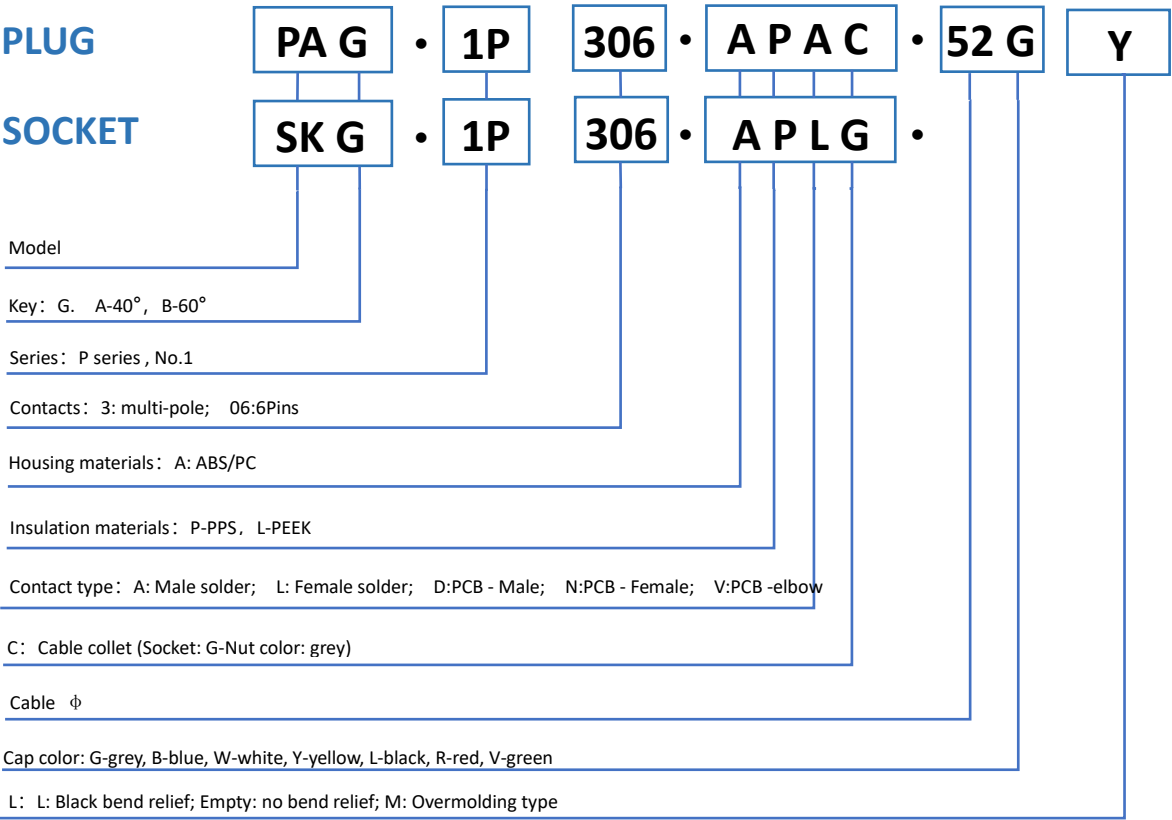
### P series plastic push-pull connectors

- Push-pull self-latching system;
- Multi-pole / 1P: 2~14 contacts, 2P: 3~16 contacts;
- Solder or PCB print contacts;
- High density installation to save space;
- Tinted back nut of plugs and round nut of sockets to avoid mismating;
- Plastic housing,2 leaf-springs locking, groove to avoid rotation

### P series Technical characteristic

- Mating cycles: > 2000 times
- Humidity: at 60 °C, max. up to 95%
- Temperature range: -40 ° ~ + 80 °
- Protection class(mated): IP50~IP65

### P series part numbering system



## Example

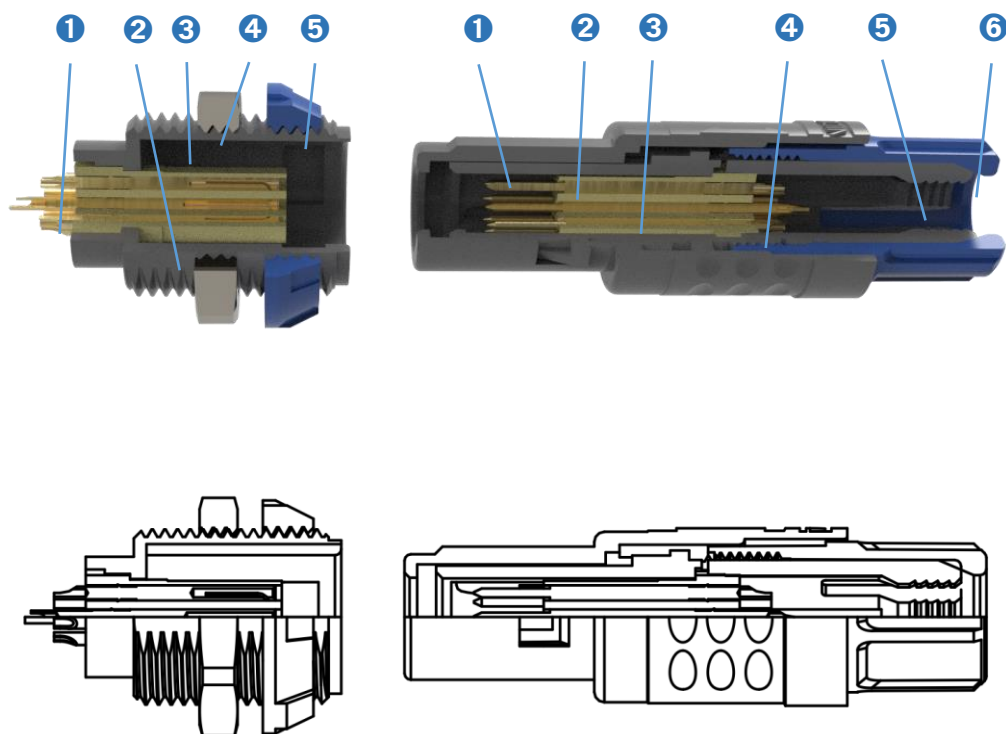
### Straight Plug with cable collet:

PAG.1P306.APAC.52G: Straight plug, Key (G) with cable collet, 1P series, Multi-pole type, 6Pins, ABS shell and collet nut, PPS insulation, Male solder contacts, C type collet for 5.2 mm diameter cable. Grey color cap.

### Fixed Socket:

SKG.1PF306.APLG: Fixed Socket, Key (G) , 1P series, Multi-pole type, 6Pins, ABS shell, PPS insulation, Female solder contacts. Grey color nut.

## Part section showing internal components



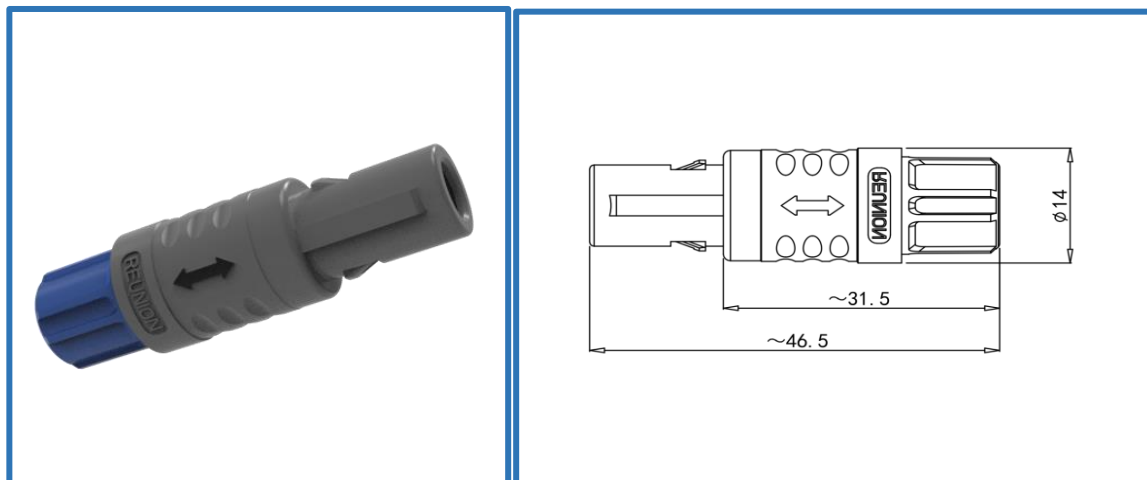
### 1P FIXED SOCKET

- ① 插孔 Female contact
- ② 孔绝缘体 Insulator
- ③ 插座壳体 Outer shell
- ④ 六角螺母 Hexagonal nut
- ⑤ 前螺母 Front nut

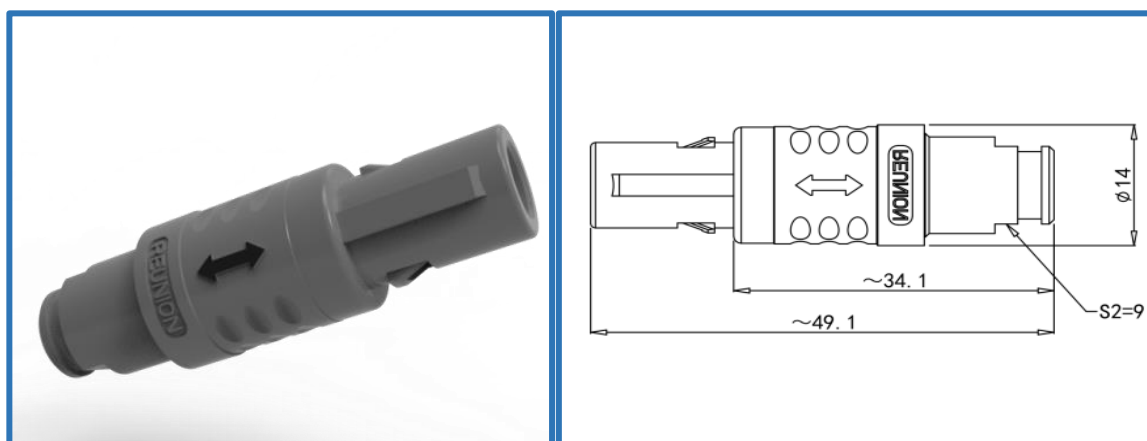
### 1P STRAIGHT PLUG

- ① 插头壳体 Outer shell
- ② 插头内壳 Latch sleeve
- ③ 针绝缘体 Insulator
- ④ 插针 Male contact
- ⑤ 电缆夹 Cable collet
- ⑥ 尾部螺帽 Back nut

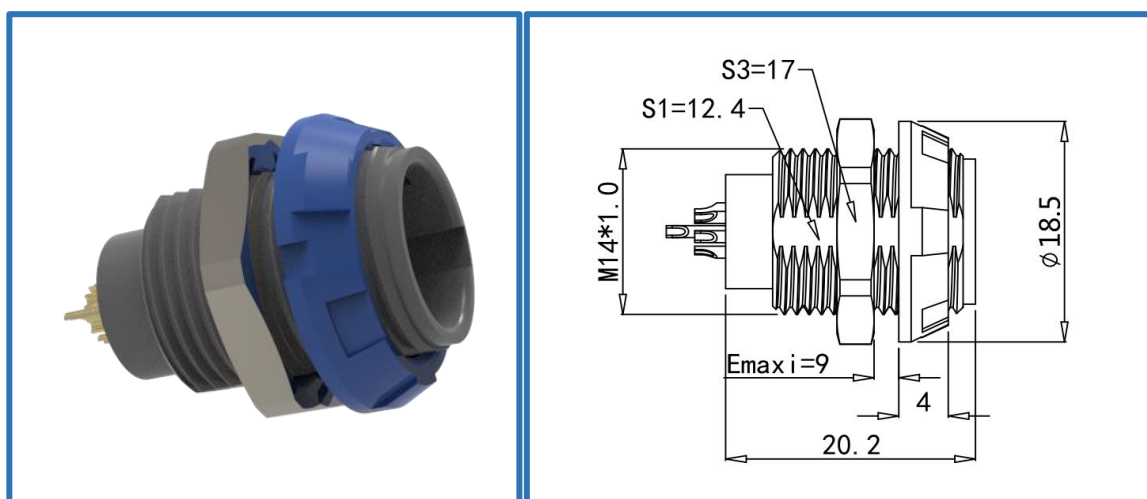
**PAG** Straight Plug, key (G) or keys(A,B,C) with cable collet



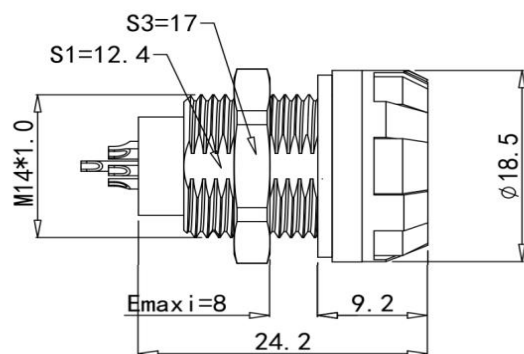
**PFG** Straight Plug, key (G) or keys(A,B,C) with cable collet and nut for fitting a bend relief(IP65)



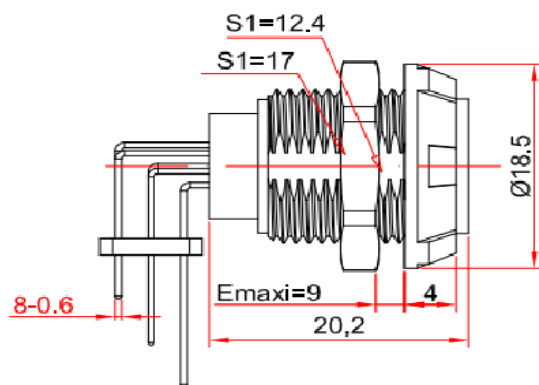
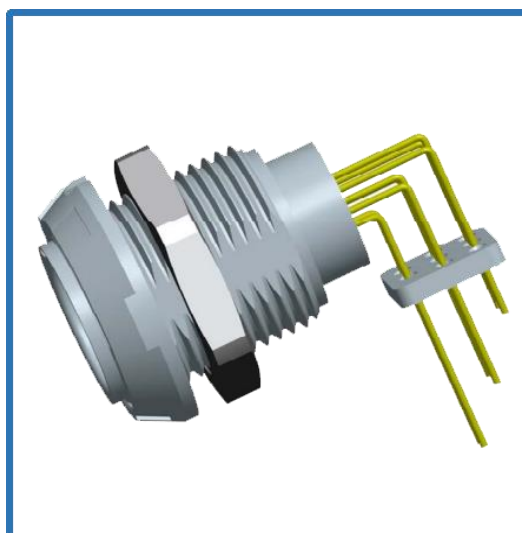
**SKG** Fixed Socket, key (G) or keys(A,B,C), with two nuts



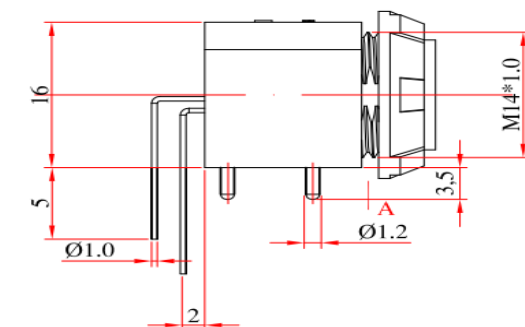
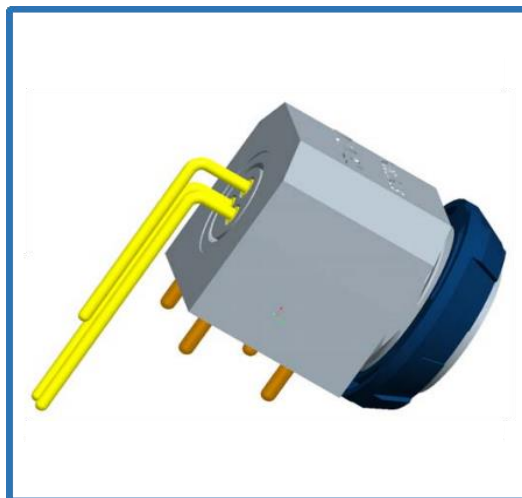
**SNG** Fixed Socket, key (G) or keys(A,B,C), nut fixin, IP65



**SKG** Fixed Socket, key (G) or keys(A,B,C), with two nuts, with 90° contacts

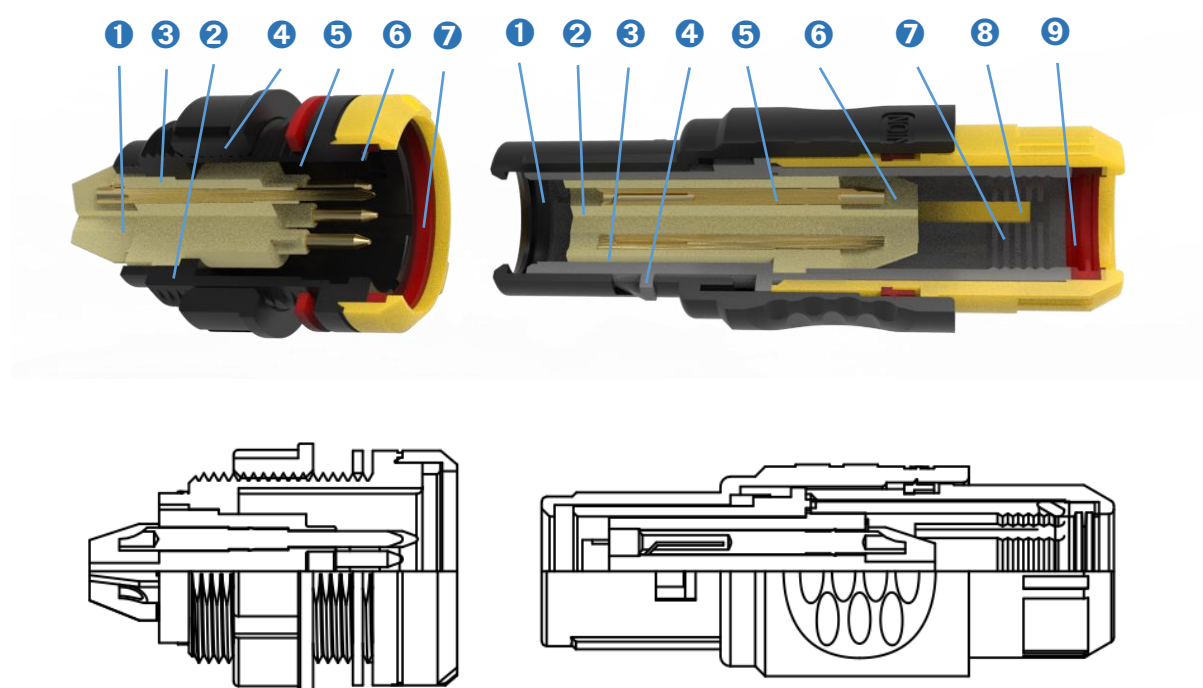


**SBG** Fixed Socket, key (G) or keys(A,B,C), nut fixing, PCB type



## 2P SERIES

### Part section showing internal components



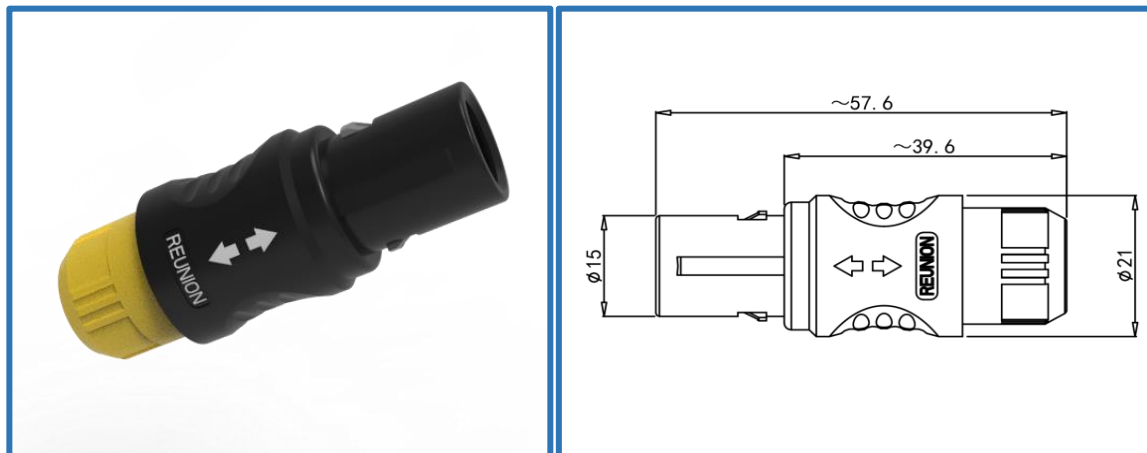
### 2P FIXED SOCKET

- ① 插针或插孔 Male/Female contacts
- ② 针绝缘体或孔绝缘体 Insulator
- ③ 插座壳体 Shell
- ④ 螺母 Nut
- ⑤ 插座外密封垫 Outer socket gasket
- ⑥ 插座前挡圈 Socket front retaining ring
- ⑦ 插座密封圈 Sealing ring

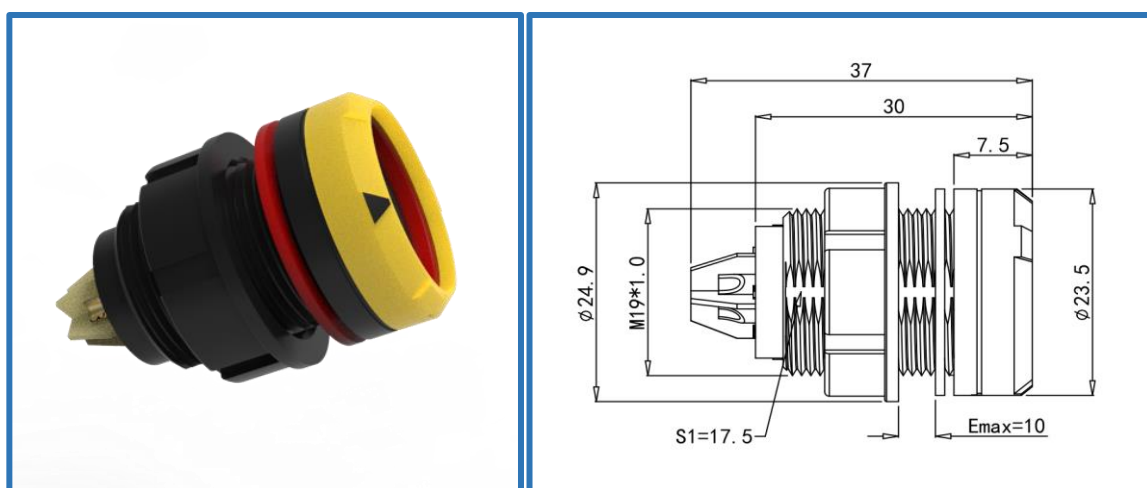
### 2P STRAIGHT PLUG

- ① 插头外套 Outer shell
- ② 插头内壳 Latch Sleeve
- ③ 针绝缘体或孔绝缘体 Insulator
- ④ 插针或插孔 Male/Female contacts
- ⑤ 尾部螺帽 Cap
- ⑥ O 型防水夹 O type waterproof clamp
- ⑦ 电缆夹 Cable collet
- ⑧ 电缆夹压圈 Cable clamp ring
- ⑨ 电缆密封圈 Sealing ring

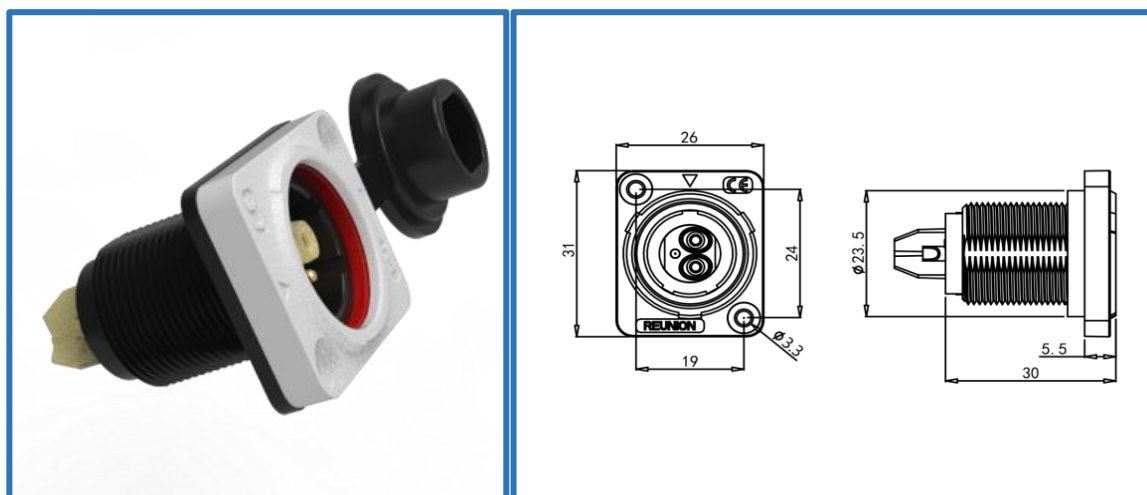
**PYA. 2P Straight Plug, cable collet, key (A, B), IP65**



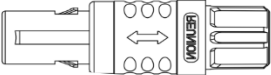

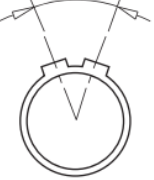


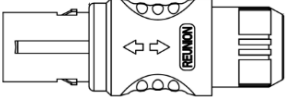




**SNA. 2P Fixed Socket, nut fixing, key (A, B), IP65**



**SMA. 2P Fixed Socket with square flange, key (A, B), IP65**



## 1P、2P key system

Key System	Example			
<b>1P</b> 	<b>0°</b> 	<b>40°</b> 	<b>60°</b> 	<b>80°</b> 
<b>2P</b> 				
Key Code	G	A	B	C

## Cap and nut color type

COLOR	BLUE	WHITE	GREY	YELLOW	BLACK	RED	GREEN
CODE	B	W	G	Y	L	R	V

## Cable collet(code)

CODE		CABLE DIAMETER
1P series	42	3.5~4.5
	52	4.5~5.5
	62	5.5~6.5
2P series	72	6.0~7.5
	90	7.6~9.5
	11	9.6~12

## 3N SERIES

### 3N series POWER connectors

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- Push-pull self-locking system;
- Different keys to avoid mismating;
- Quick and convenient turning locking system;
- Made of nylon fiber, fire rating V0, corrosion resistance;
- Good insulation under high temperature;
- Socket terminal adopts imported beryllium copper of which assure long life and good conductivity;

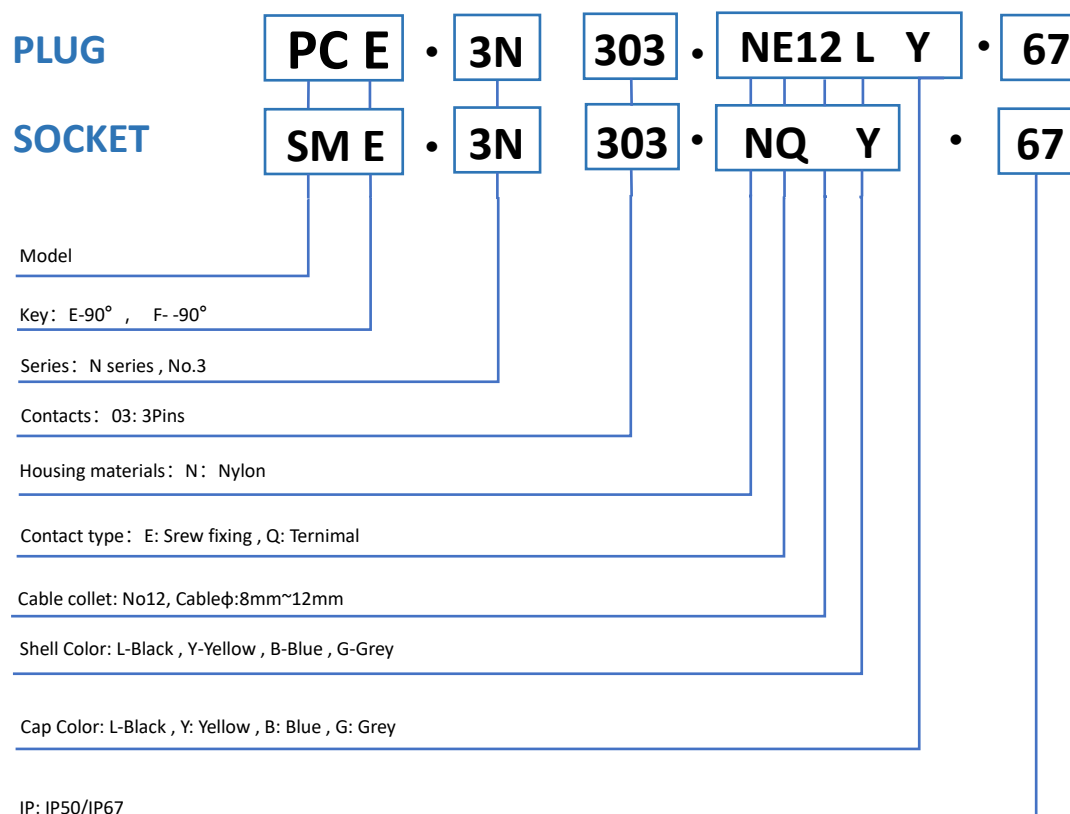
### 3N series Technical characteristic

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- Contacts: Terminal
- Vated current: 30A
- Over 2,000 times mating
- Working voltage: 250Vac
- Contact resistance: < 2mΩ
- Working Temp (Min/Max): -40°C / +125°C
- Salt fog Corrosion:> 48h
- Protection class(mated): IP50/IP67

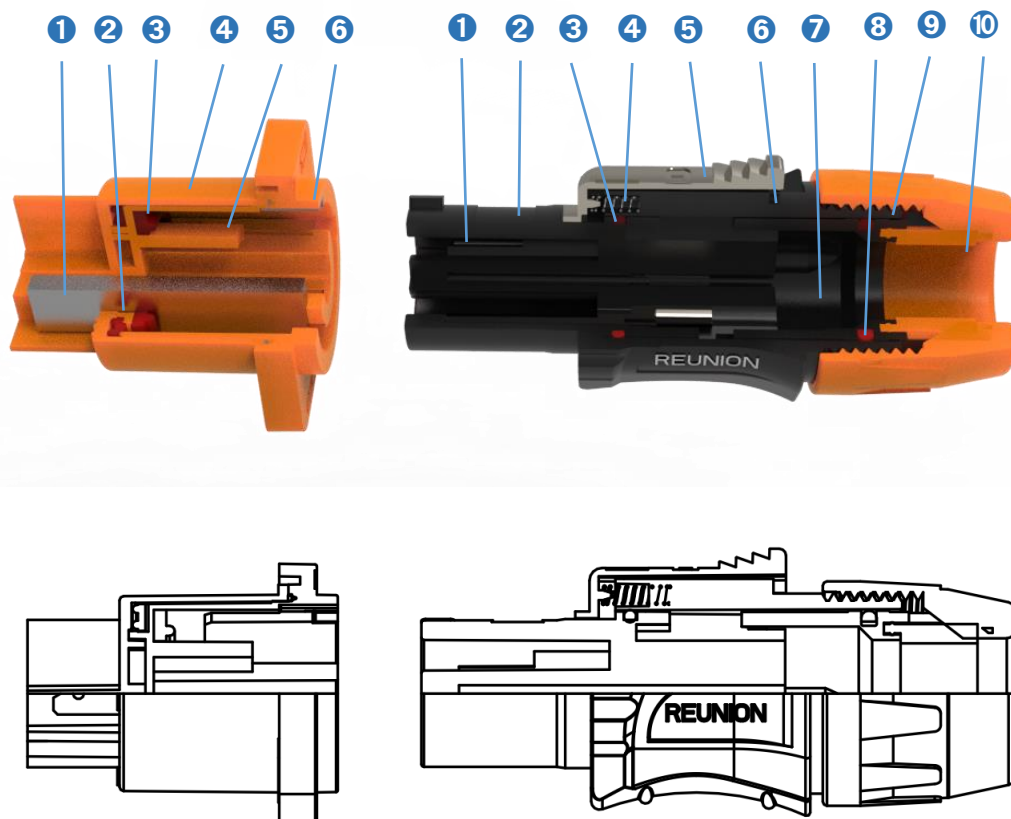
### 3N Series part numbering system

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## Part section showing internal components



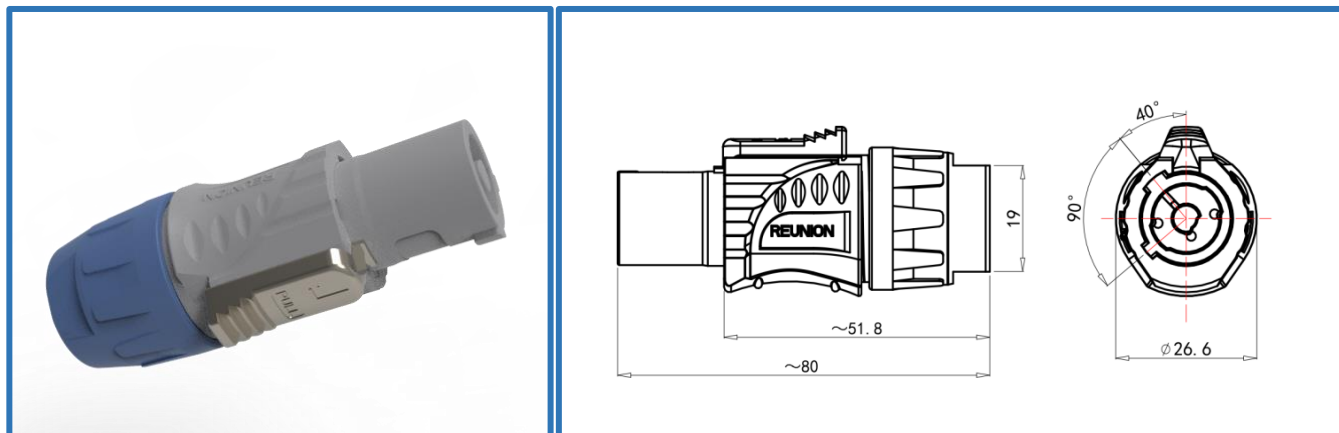
### FIXED SOCKET

- ① 弹片端子 Terminal
- ② 插座防水垫圈 Waterproof washer
- ③ 插座防水圈 Waterproof ring
- ④ 插座外壳 Outer shell
- ⑤ 插座壳体 Shell
- ⑥ 不锈钢片 Stainless steel sheet

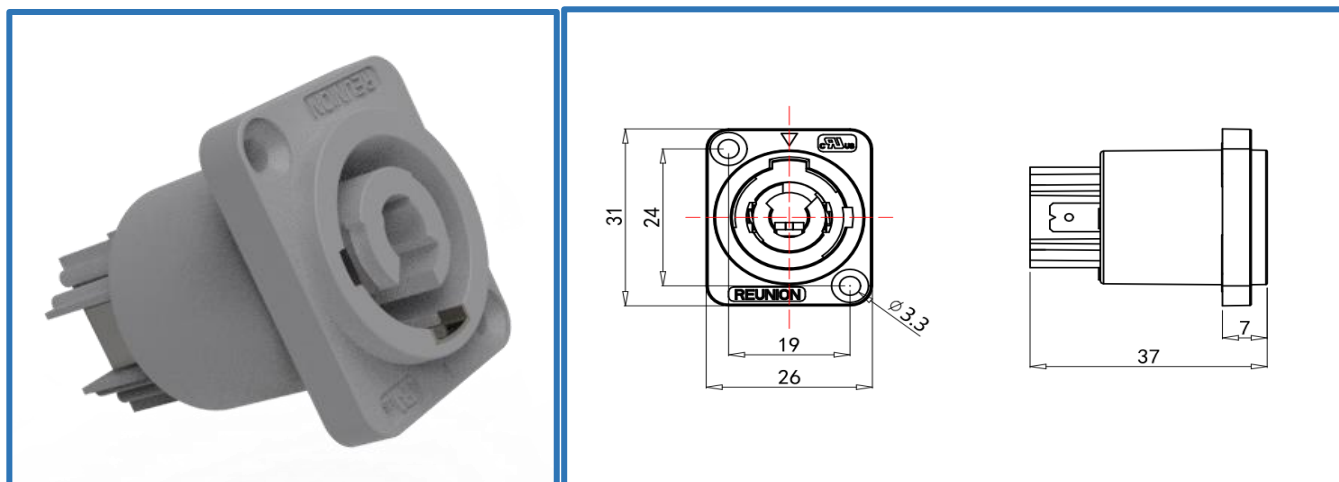
- ① 插针 Male contacts
- ② 插头壳体 Shell
- ③ 密封圈 Sealing ring
- ④ 弹簧 Spring
- ⑤ 解锁键 Unlock-key
- ⑥ 插头外套 Outer shell
- ⑦ 电缆夹 Cable collet
- ⑧ 电缆夹密封圈 Cable clamp sealing ring
- ⑨ 电线密封圈 Sealing ring
- ⑩ 尾帽 Cap

### STRAIGHT PLUG

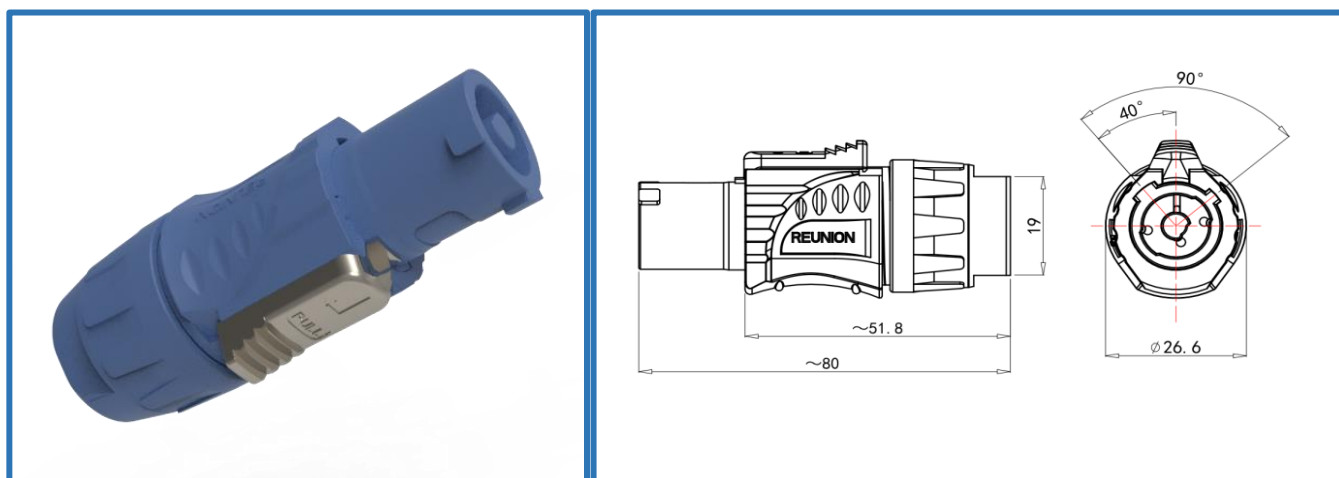
**PCE.3N303.NE12GB.50 Straight Plug, IP50, 90° key**



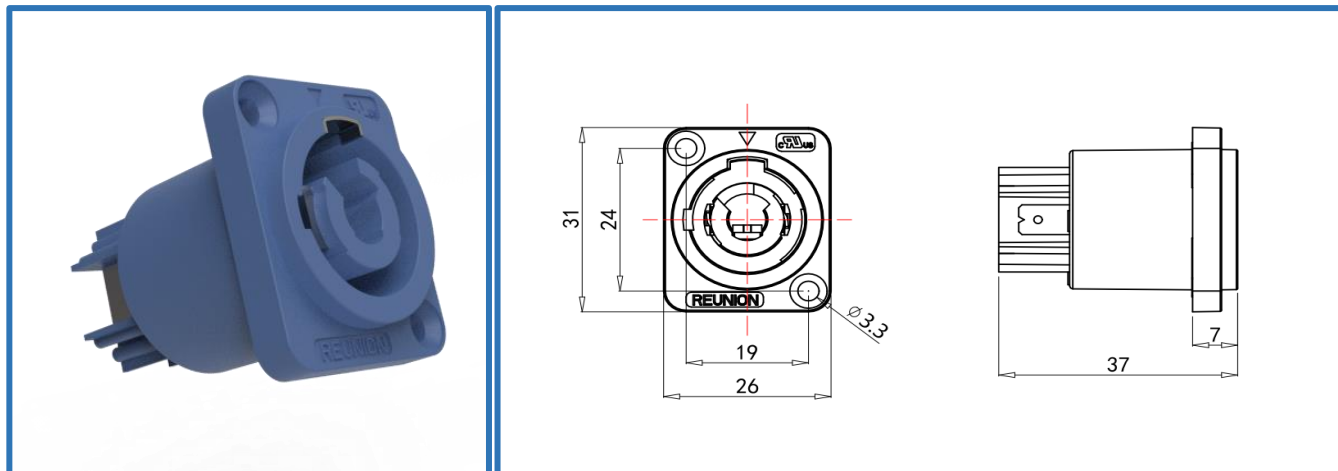
**SME.3N303.NQG.50 Fixed Socket, IP50, 90° key**



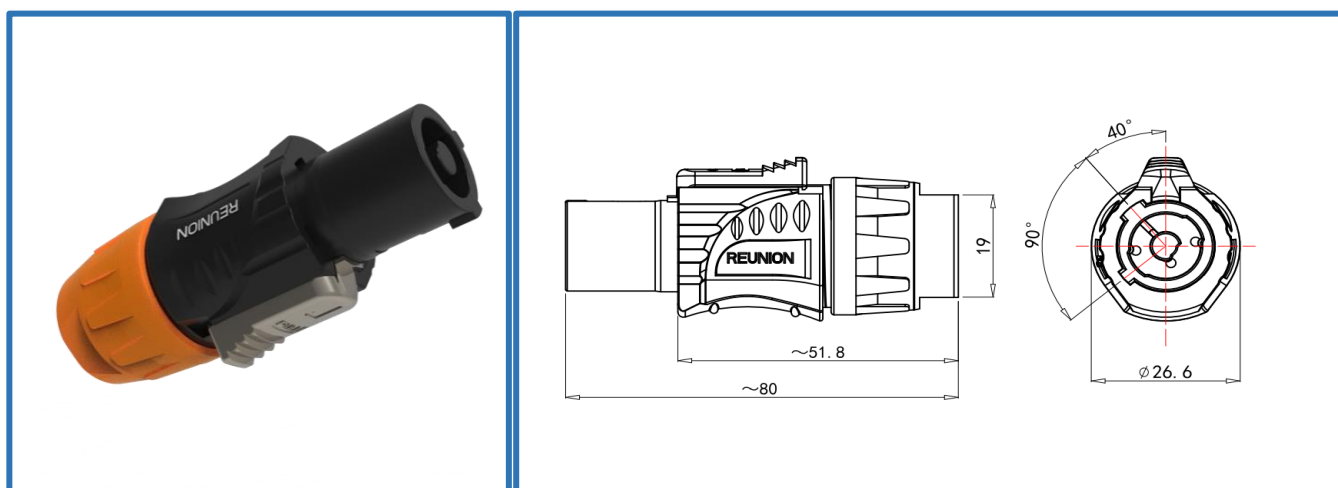
**PCF.3N303.NE12BB.50 Straight Plug, IP50, -90°**



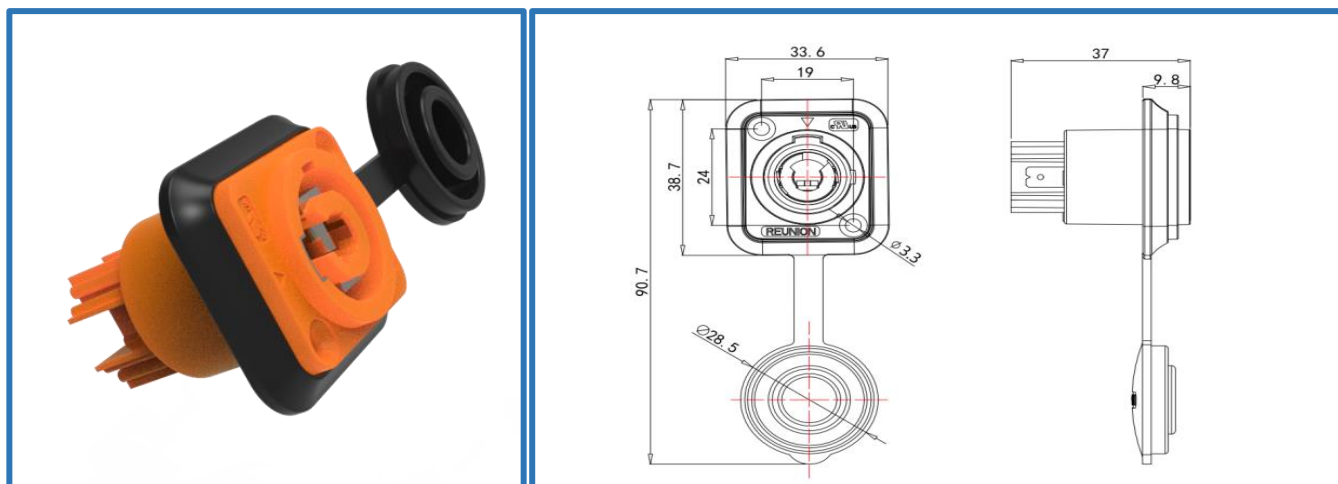
**SMF.3N303.NQB.50 Fixed Socket, IP50, -90° key**



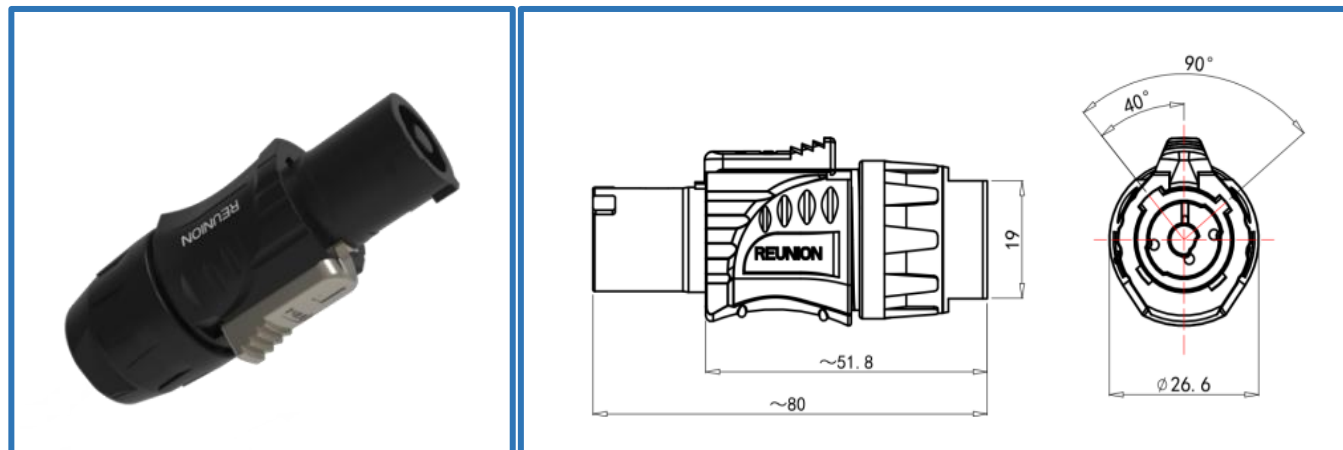
**PCE.3IM303.NE12LY.67 Straight Plug, IP67, 90° key**



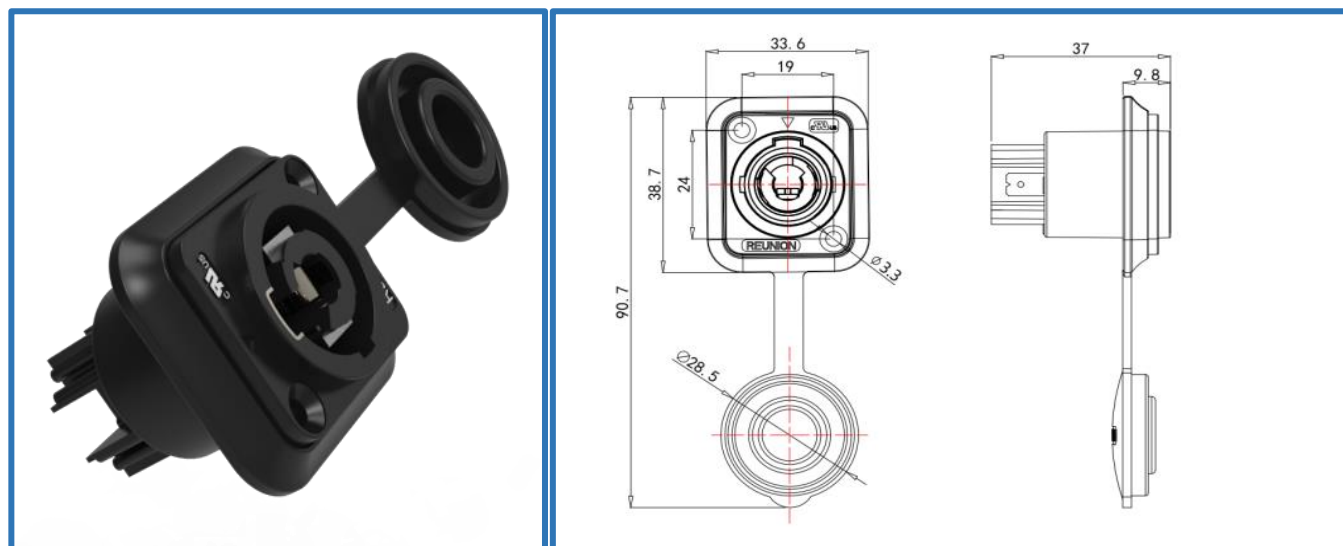
**SME.3N303.NQY.67 Fixed Socket, IP67, 90° key**



**PCF.3N303.NE12LL.67 Straight Plug, IP67, -90° key**



**SMF.3N303.NQL.67 Fixed Socket, IP67, -90° key**



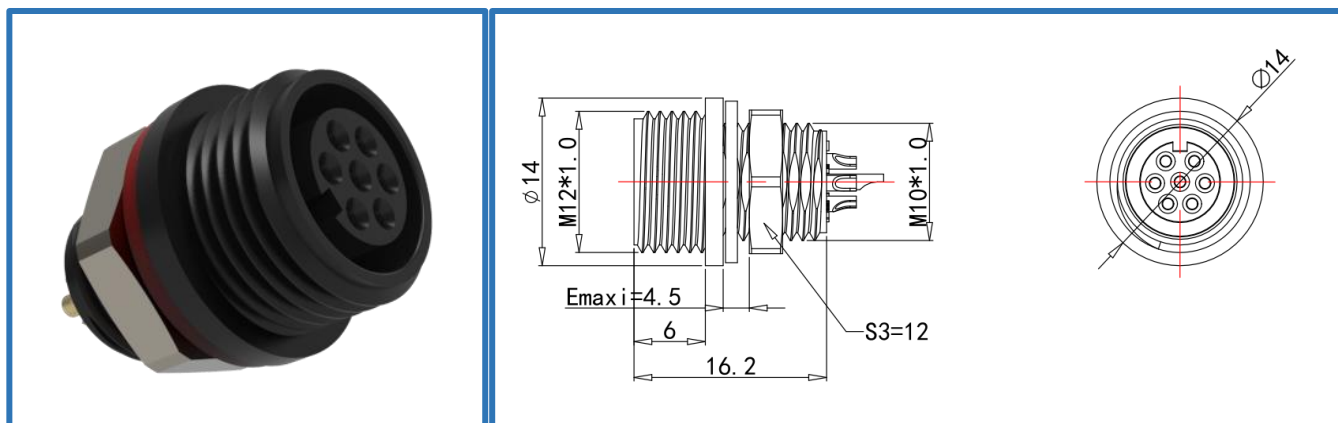
## M SERIES

### M Series Power & Signal connectors

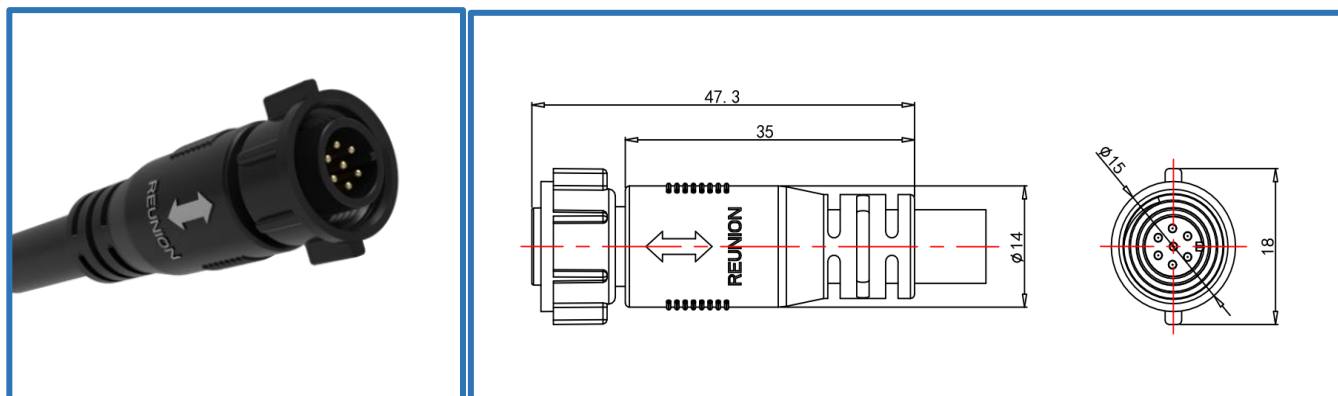
- Safe and reliable connection system;
- Multipole, power and signal output;
- Solder or PCB print contacts;
- Compact design for space saving;
- Plastic shell, IP67 waterproof;

## 1M SERIES

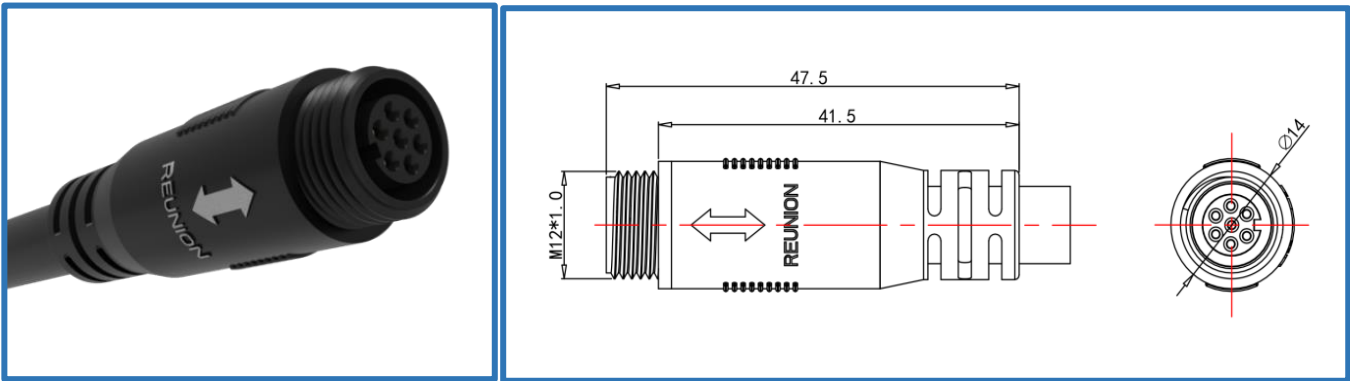
### SFG.1M307.NL : 1M7Pins Fixed Socket



### PAG.1M307.NA : 1M7Pins Straight Plug



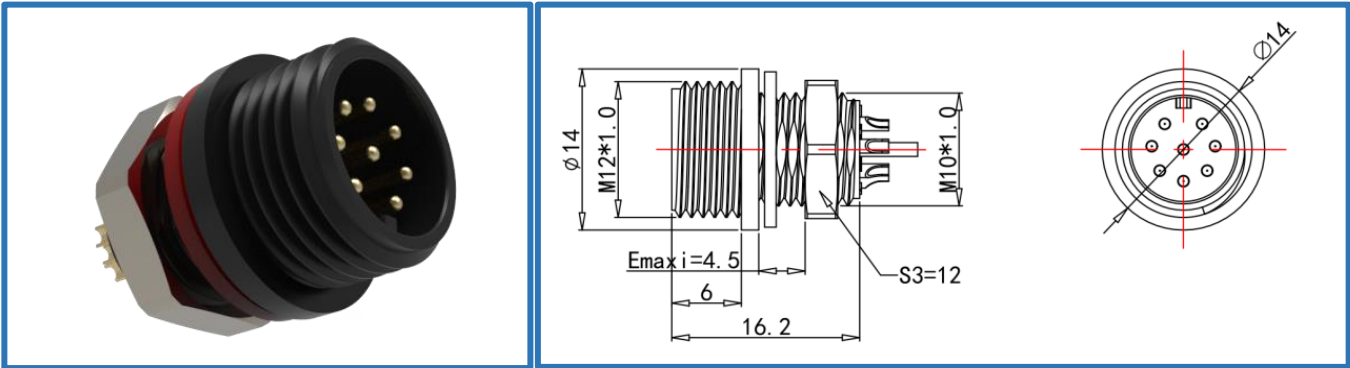
SHG.1M307.NL : 1M7Pins Free Socket



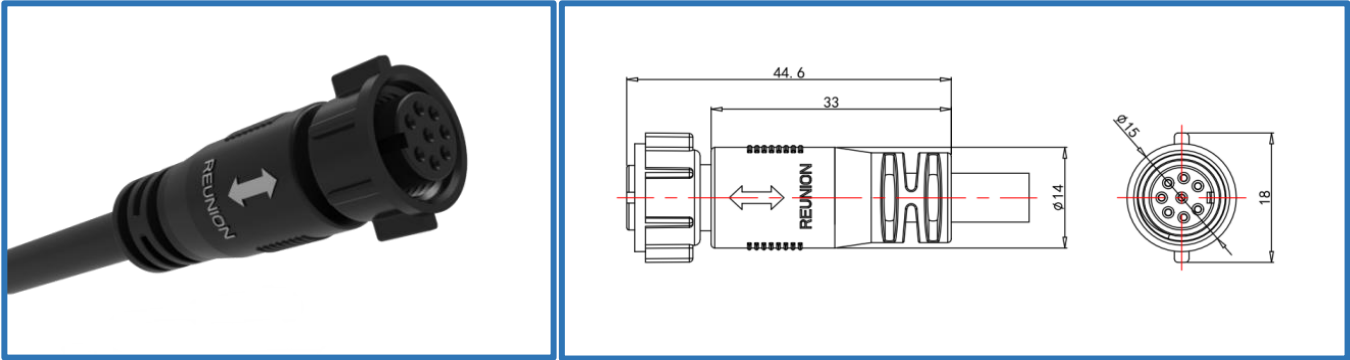
7Pins Contacts Configuration

PIns	Contacts OD(mm)	Voltage(Vac)	Current(A)	Contact resistance(mΩ)	Insulation resistance(MΩ)	Mating(times)	Protection Class	Temperature
7	0.9	250	10	6	>1000	>500	IP67	-40~105℃

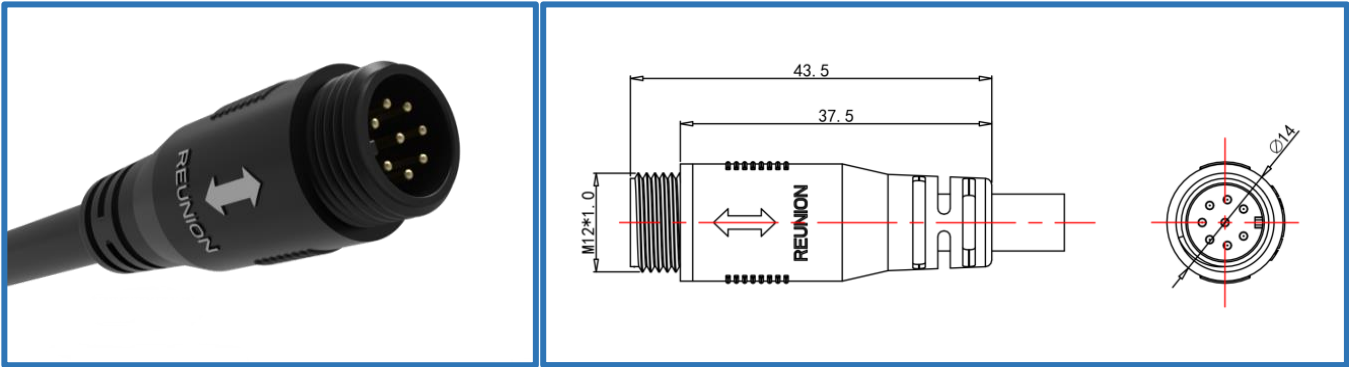
SFG.1M308.NA : 1M8Pins Fixed Socket



PAG.1M308.NL : 1M8Pins Straight Plug



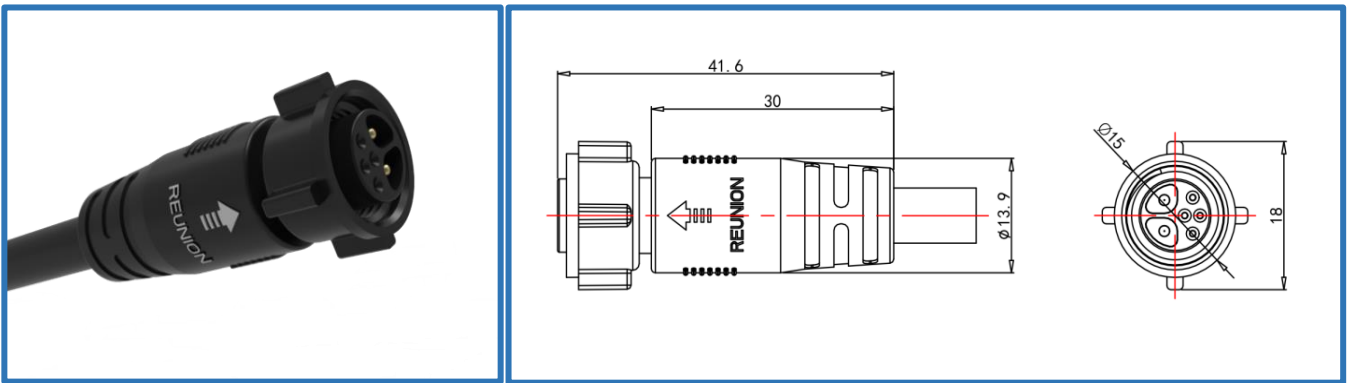
SHG.1M308.NA : 1M8Pins Free Socket



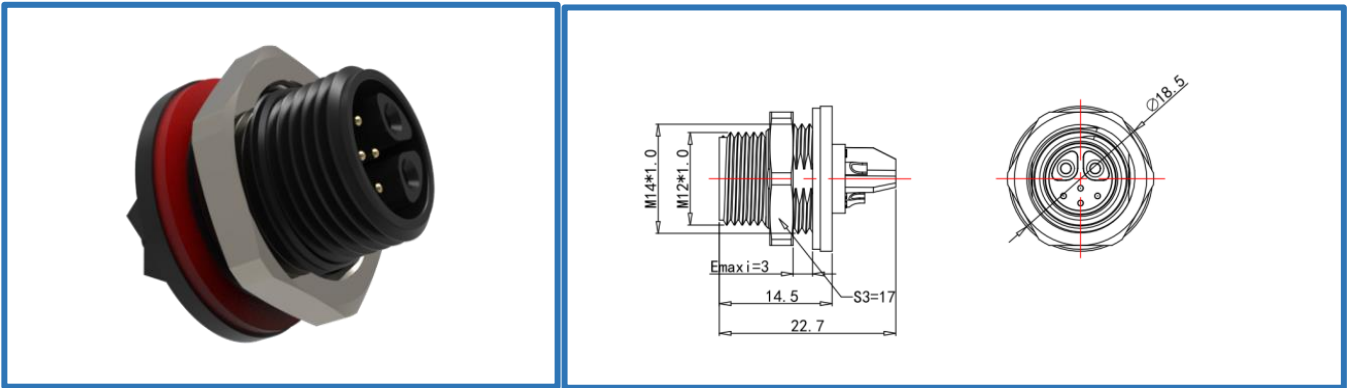
8Pins Contacts Configuration

Pins	Contacts OD(mm)	Voltage(Vac)	Current(A)	Contact resistance(mΩ)	Insulation resistance(MΩ)	Mating(times)	Protection Class	Temperature
8	0.9	250	10	6	>1000	>500	IP67	-40~105℃

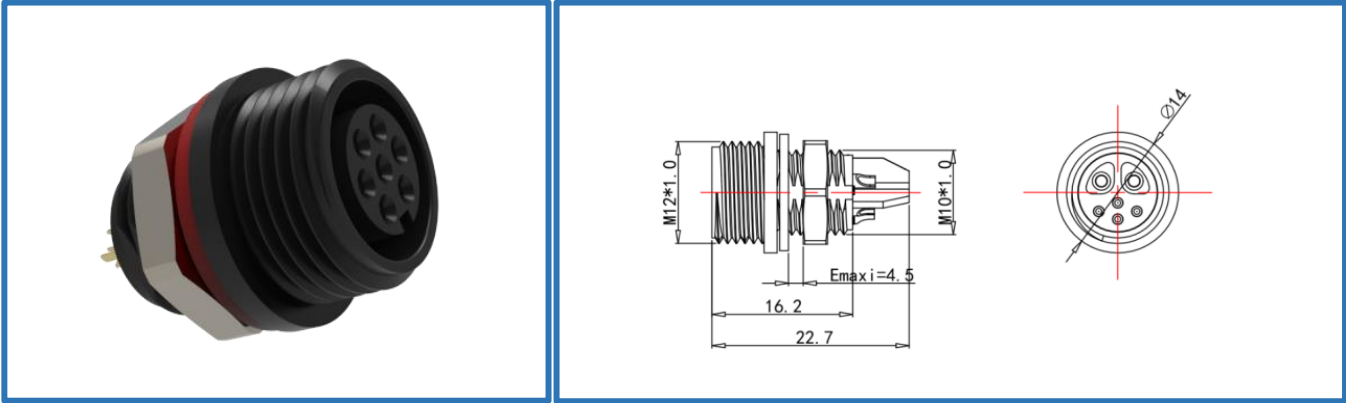
PAN.1M406.NA : 1M2+4Pins Straight Plug



SEN.1M406.NL : 1M2+4Pins Fixed Socket



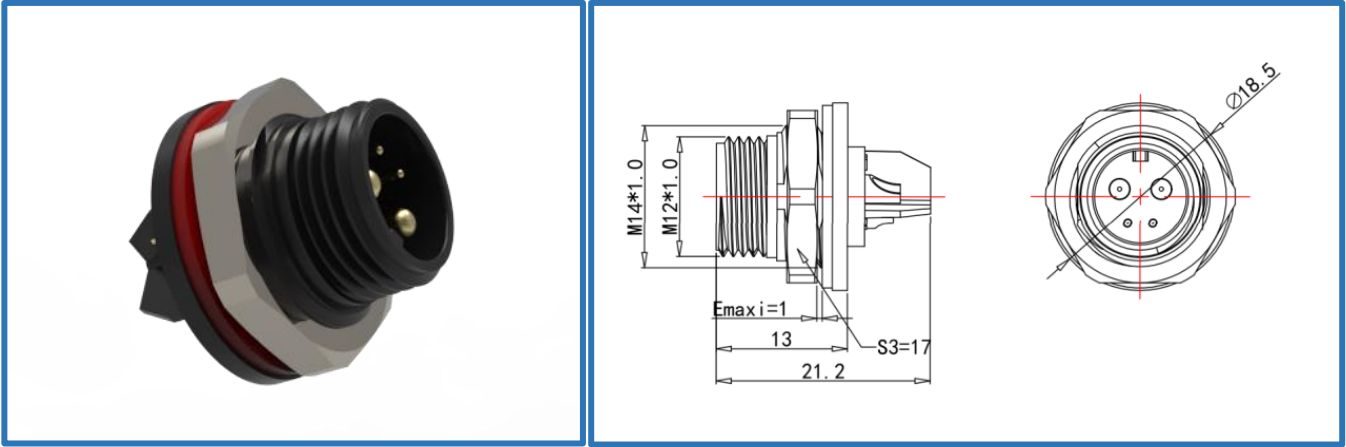
SHN.1M406.NL : 1M2+4Pins Free Socket



2+4Pins Contacts Configuration

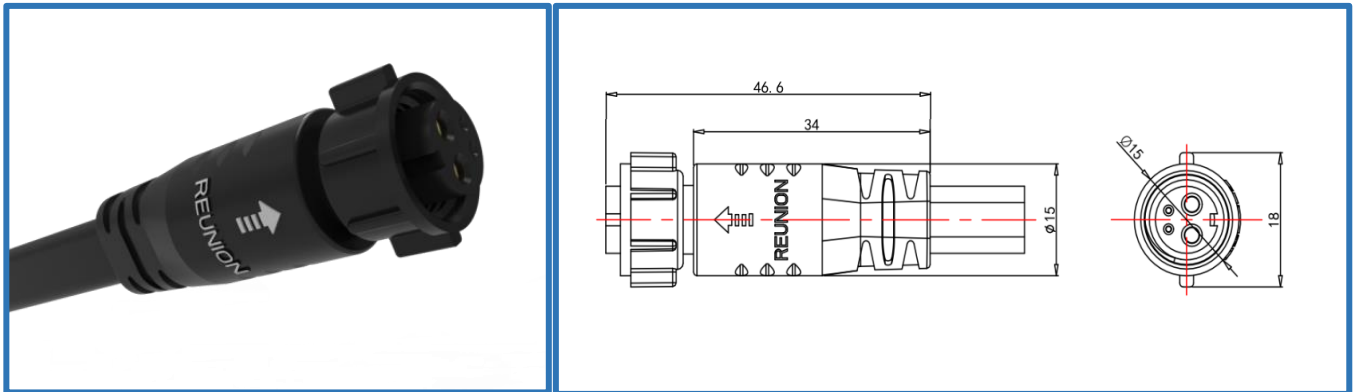
Pins	Contacts OD(mm)	Voltage(Vac)	Current(A)	Contact resistance(mΩ)	Insulation resistance(MΩ)	Mating(times)	Protection Class	Temperature
2-power	1.3	500	12	5	>1000	>500	IP67	-40~105°C
4-signal	0.7	50	6	7.5				

SCG.1M404.NA : 1M2+2Pins Fixed Socket

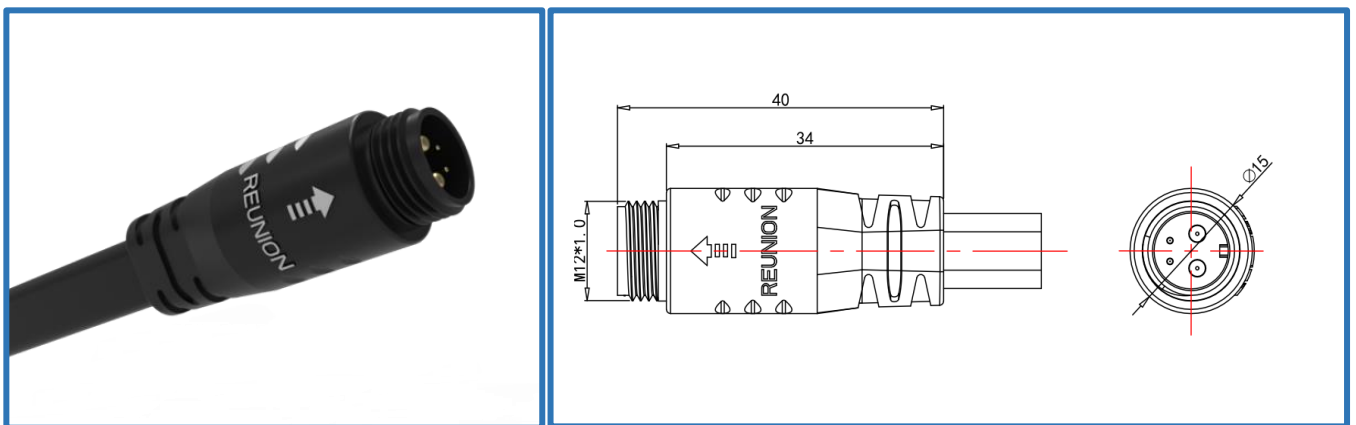




### PCG.1M404.NL : 1M2+2Pins Straight Plug



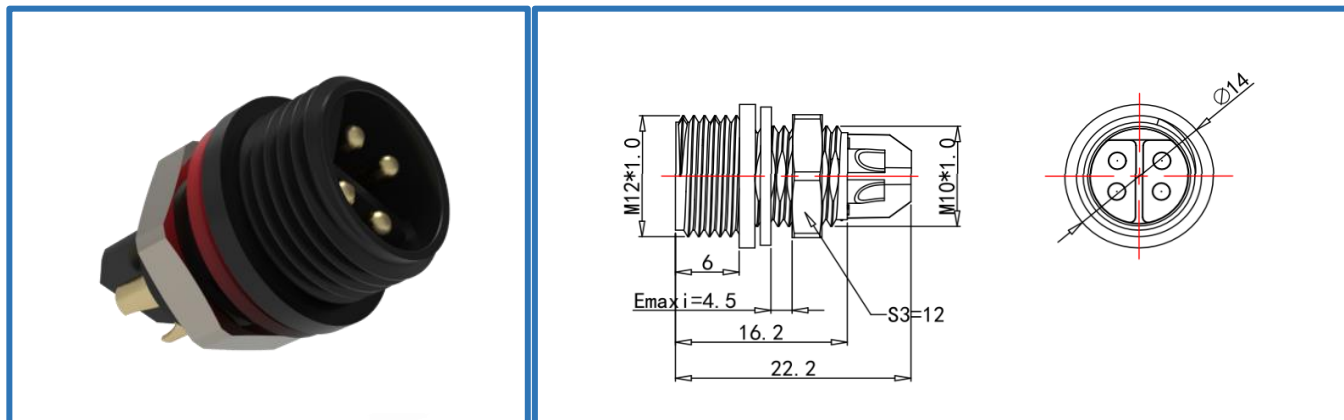
### SHC.1M404.NA : 1M2+2Pins Free Socket



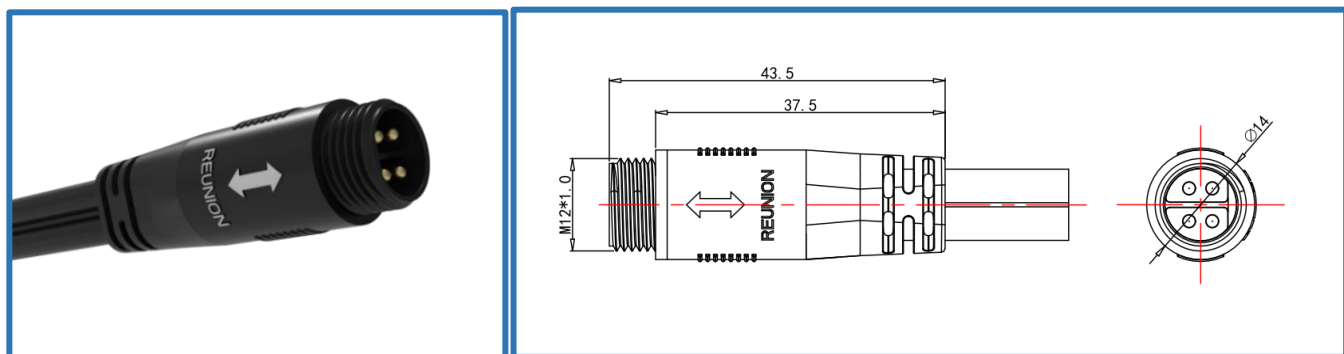
### 2+2Pins Contacts Configuration

Pins	Contacts OD(mm)	Voltage(Vac)	Current(A)	Contact resistance(mΩ)	Insulation resistance(MΩ)	Mating(times)	Protection Class	Temperature
2-power	1.3	500	20	5	>1000	>500	IP67	-40~105°C
2-signal	0.7	50	6	7.5				

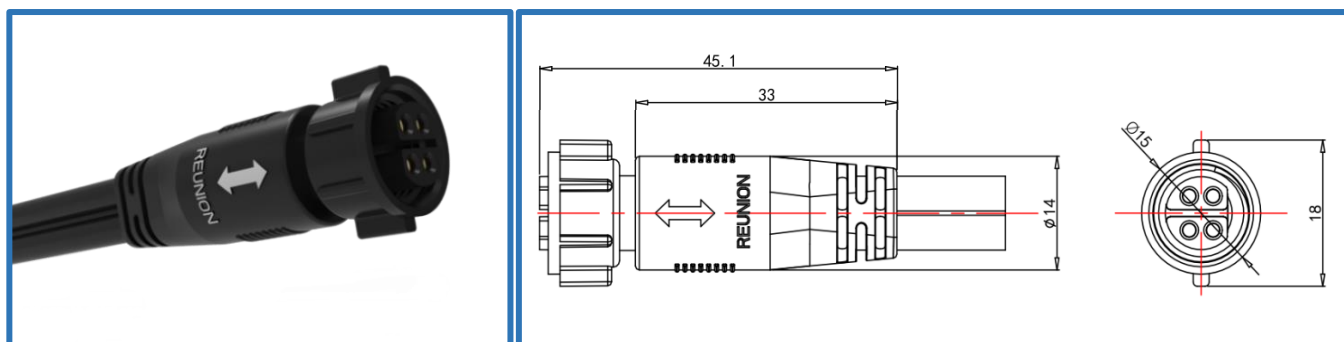
### SFN.1M304.NA : 1M4Pins Fixed Socket



### SHN.1M304.NA : 1M4Pins Free Socket



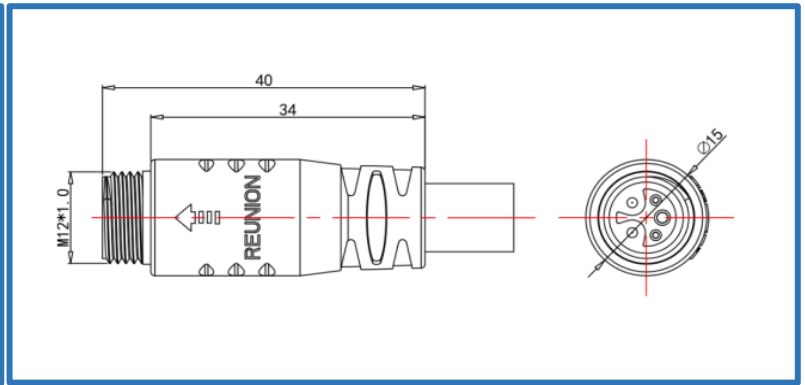
### PAN.1M304.NL : 1M4Pins Straight Plug



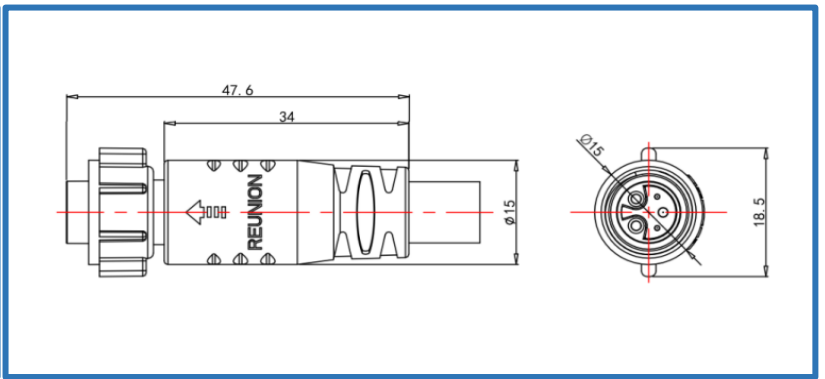
### 4Pins Contacts Configuration

Plns	Contacts OD(mm)	Voltage(Vac)	Current(A)	Contact resistance(mΩ)	Insulation resistance(MΩ)	Mating(times)	Protection Class	Temperature
4	1.6	500	16	4	>1000	>500	IP67	-40~105°C

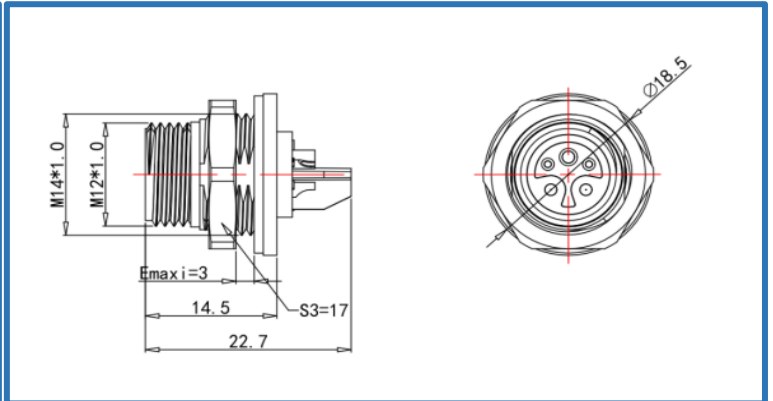
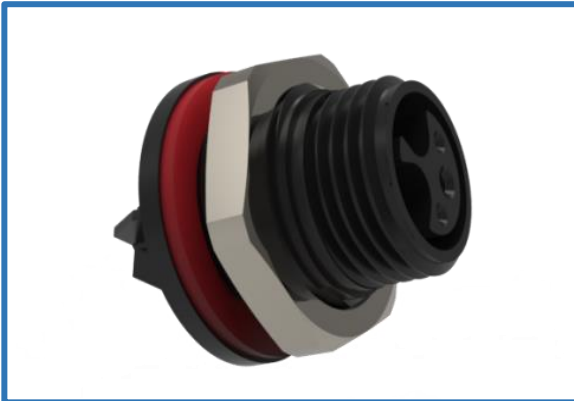
### SHG.1M405.NA : 1M3+2Pins Free Socket



### PBG.1M405.NL : 1M3+2Pins Straight Plug



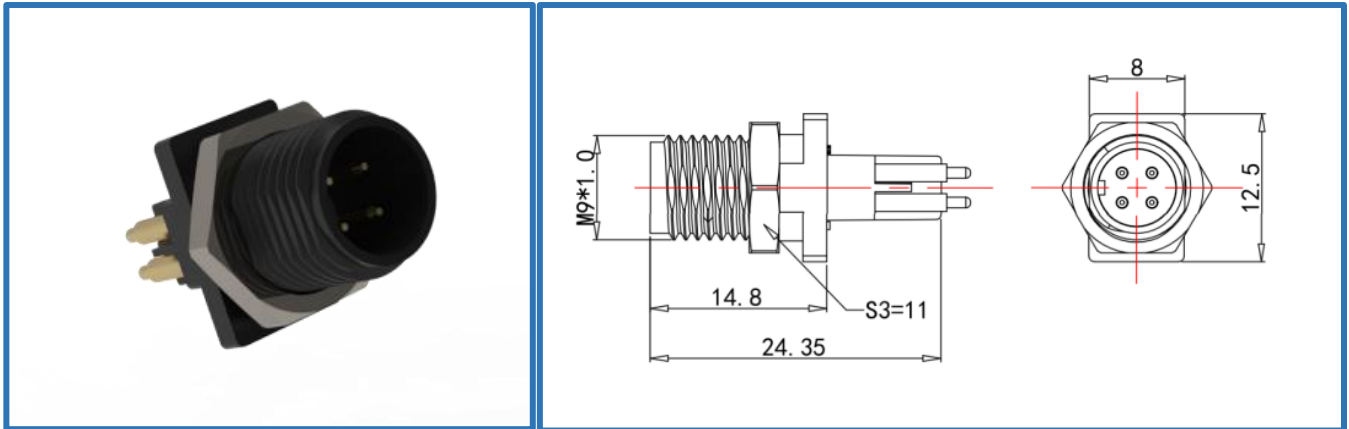
### SEG.1M405.NA : 1M3+2Pins Fixed Socket



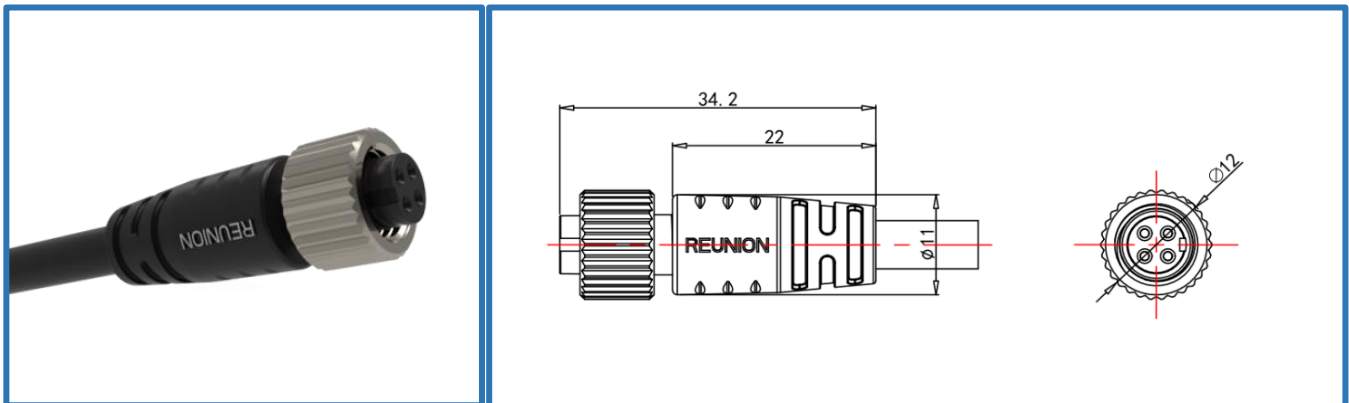
### 3+2Pins Contacts Configuration

Pins	Contacts OD(mm)	Voltage(Vac)	Current(A)	Contact resistance(mΩ)	Insulation resistance(MΩ)	Mating(times)	Protection Class	Temperature
2	1.3	500	12	5	>1000	>500	IP67	-40~105°C
1	1.3	500	12	5				
2	0.7	50	6	7.5				

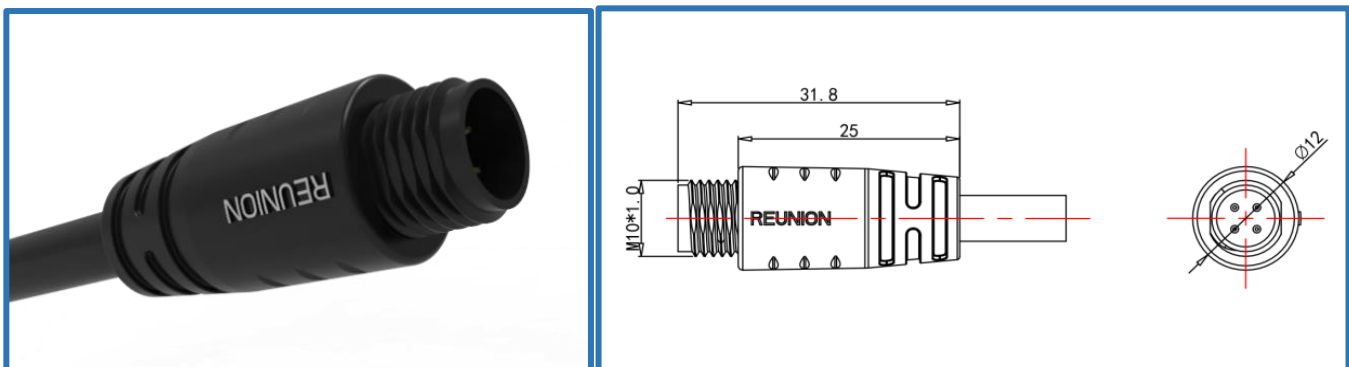
### SBG.1M304.ND : 1M4Pins Fixed Socket



### PBG.1M304.NL : 1M4Pins Straight Plug



### SHG.1M304.NA : 1M4Pins Free Socket

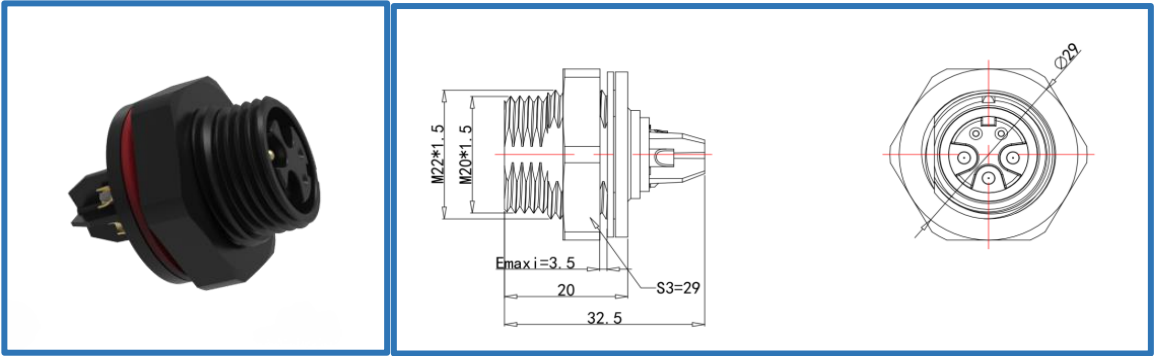


### 4Pins Contacts Configuration

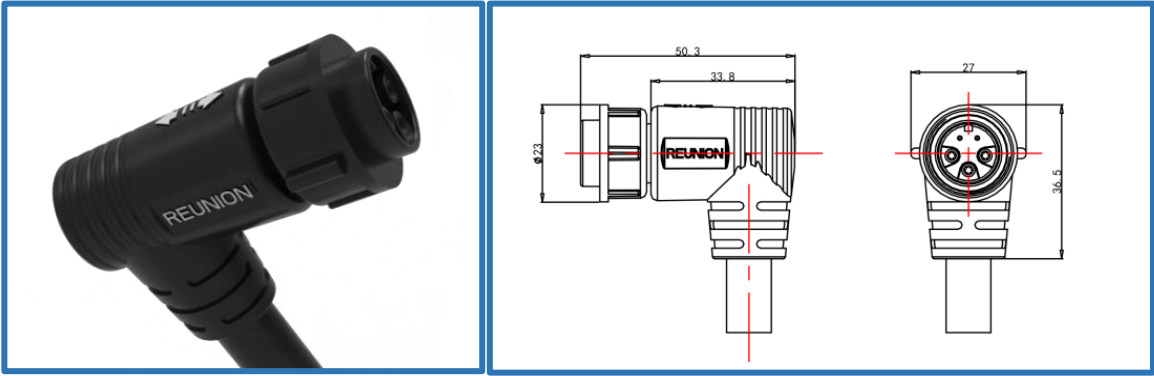
Plns	Contacts OD(mm)	Voltage(Vac)	Current(A)	Contact resistance(mΩ)	Insulation resistance(MΩ)	Mating(times)	Protection Class	Temperature
4	0.9	250	9	6	>1000	>500	IP67	-40~105℃

2M SERIES

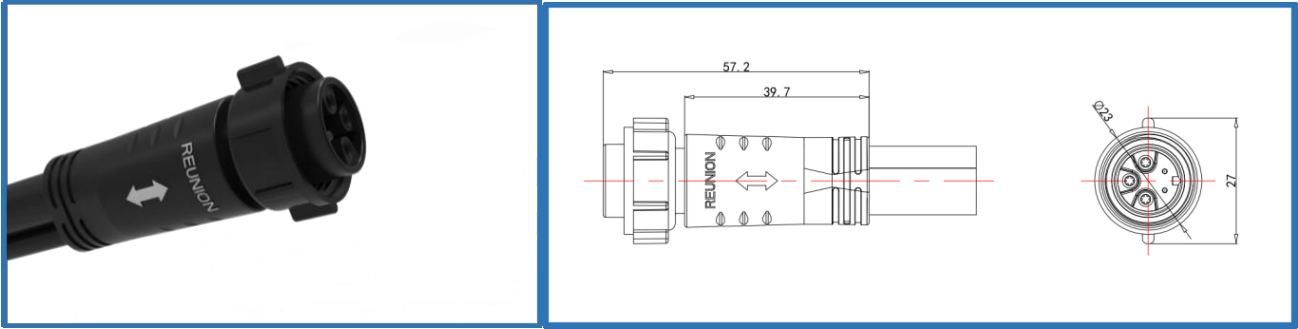
SEG.2M405.NL : 2M3+2Pins Fixed Socket



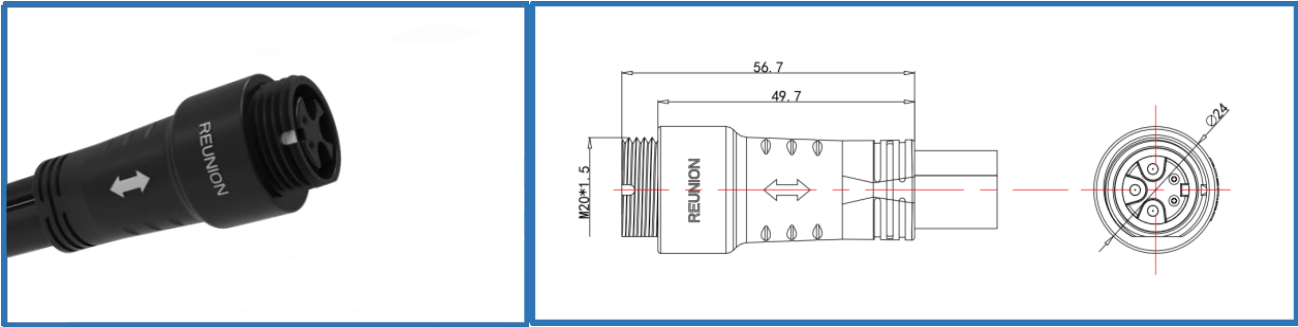
PEG.2M405.NL : 2M3+2Pins Elbow Plug



PAG.2M405.NL: 2M3+2Pins Straight Plug



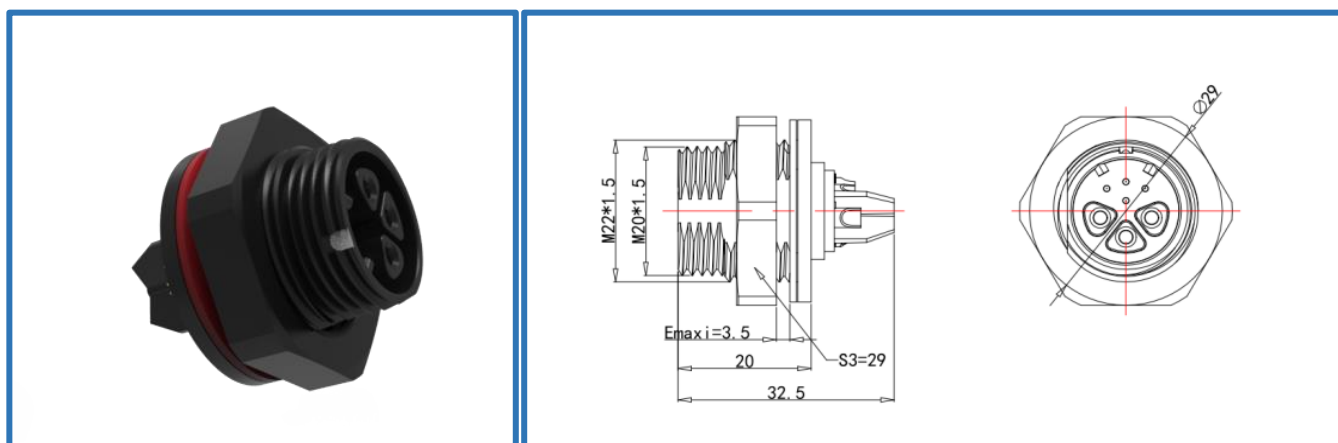
SHG.2M405.NL: 2M3+2Pins Free Socket



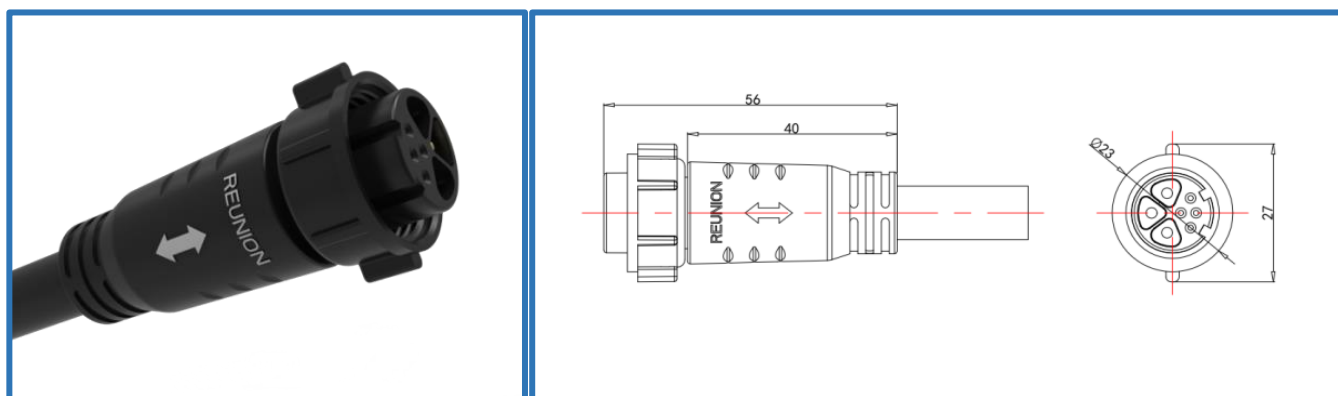
### 3+2Pins Contacts Configuration

Pins	Contacts OD(mm)	Voltage(Vac)	Current(A)	Contact resistance(mΩ)	Insulation resistance(MΩ)	Mating(times)	Protection Class	Temperature
3-power	2.0	500	22	3	>1000	>500	IP67	-40~105°C
2-signal	0.9	100	9	6				

### SEB.2M407.NL : 2M3+4Pins Fixed Socket



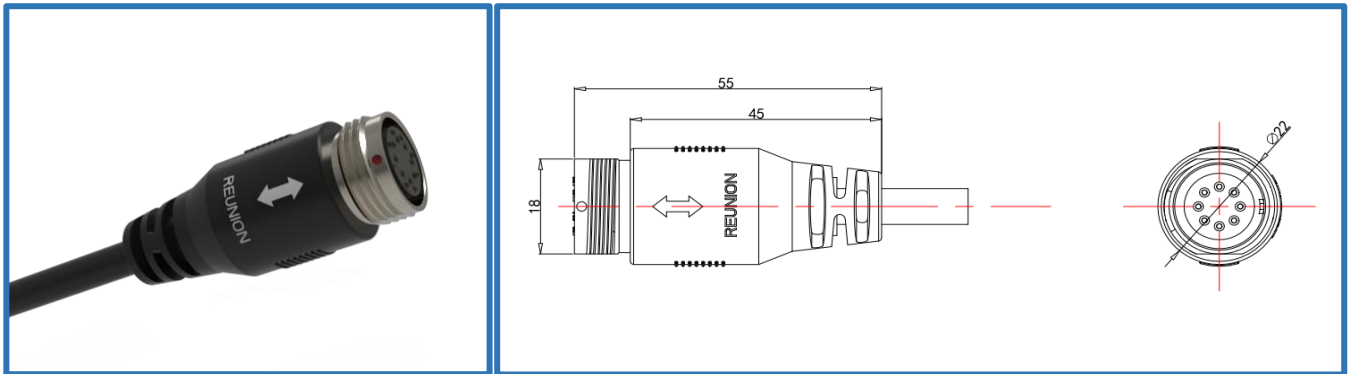
### PAB.2M407.NA : 2M3+4Pins Straight Plug



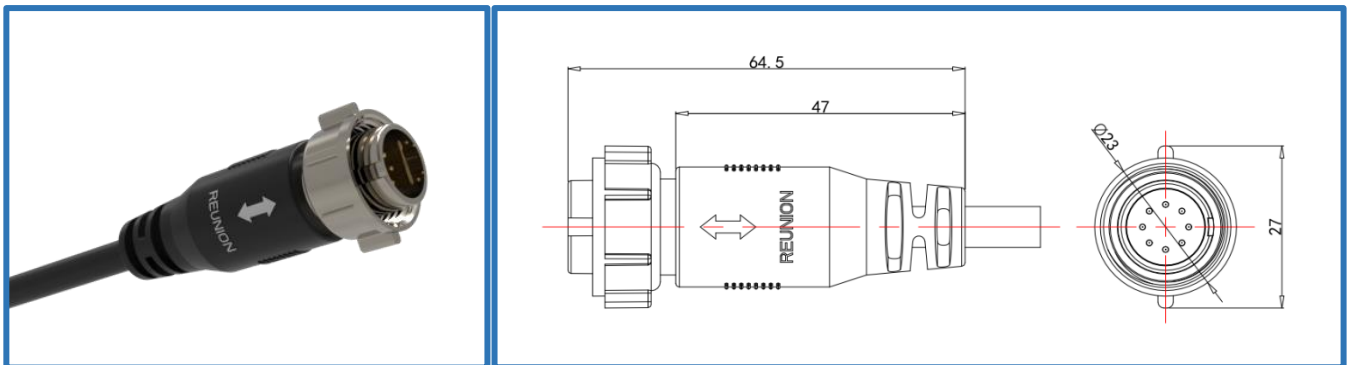
### 3+4Pins Contacts Configuration

Pins	Contacts OD(mm)	Voltage(Vac)	Current(A)	Contact resistance(mΩ)	Insulation resistance(MΩ)	Mating(times)	Protection Class	Temperature
3-power	2.0	500	22	3	>1000	>500	IP67	-40~105°C
4-signal	0.9	100	9	6				

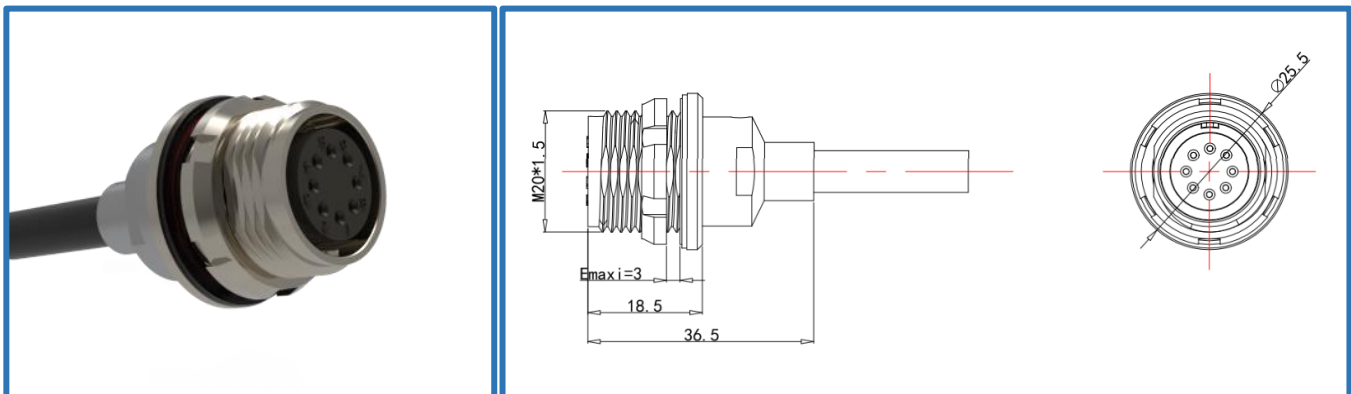
### SHG.2M308.NL : 2M8Pins Free Socket



### PNG.2M308.NA : 2M8Pins Straight Plug



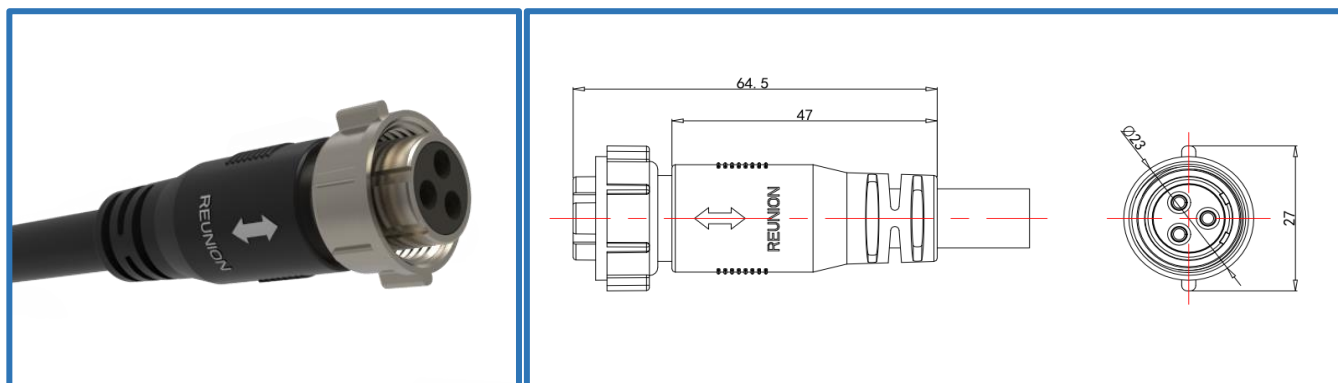
### SNG.2M308.NL : 2M8Pins Fixed Socket



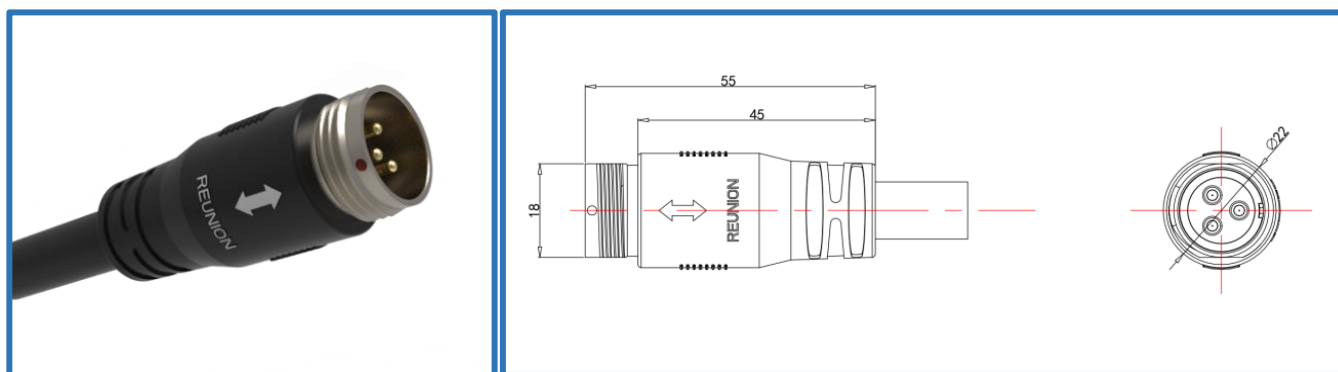
### 8Pins Contacts Configuration

Plns	Contacts OD(mm)	Voltage(Vac)	Current(A)	Contact resistance(mΩ)	Insulation resistance(MΩ)	Mating(times)	Protection Class	Temperature
8	0.9	200	5	6	>1000	>500	IP68	-40~105°C

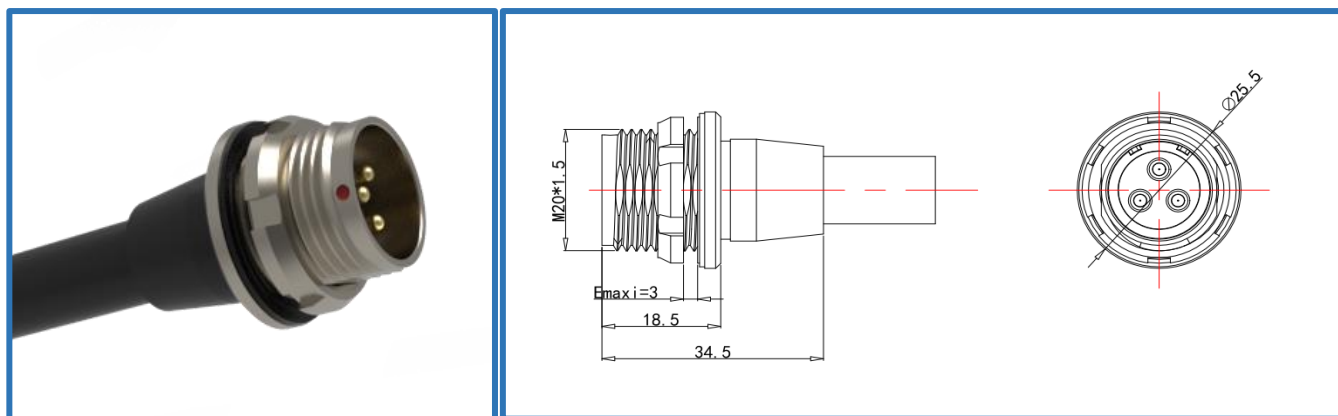
### PNB.2M303.NL : 2M3Pins Straight Plug



### SHB.2M303.NA : 2MPins Free Socket



### SNB.2M303.NA : 2M3Pins Fixed Socket

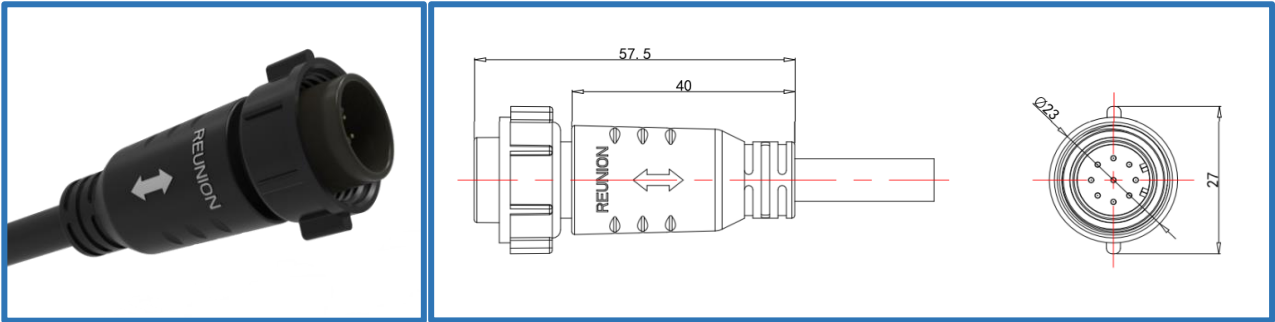


### 3Pins Contacts Configuration

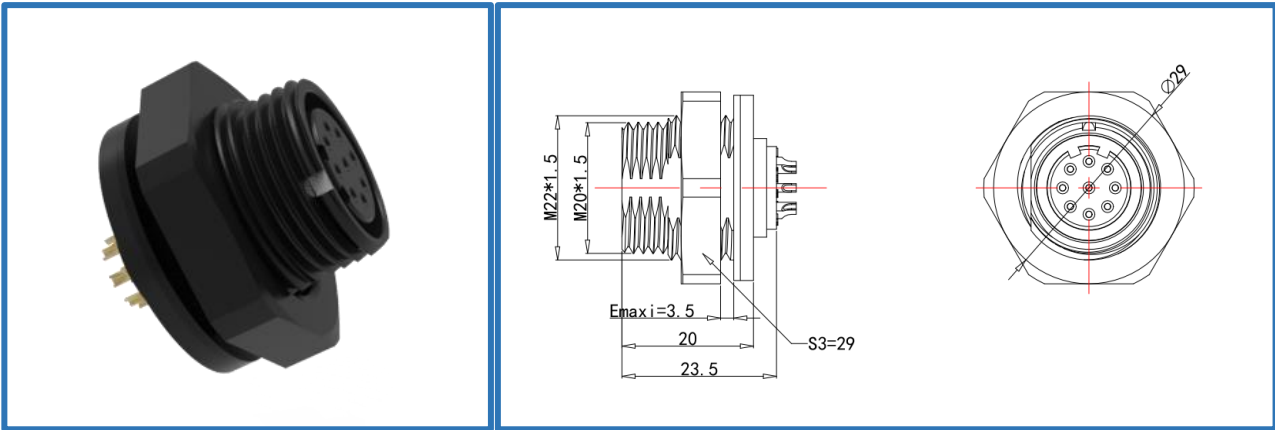
Pins	Contacts OD(mm)	Voltage(Vac)	Current(A)	Contact resistance(mΩ)	Insulation resistance(MΩ)	Mating(times)	Protection Class	Temperature
3	2.0	500	22	3	>1000	>500	IP68	-40~105℃



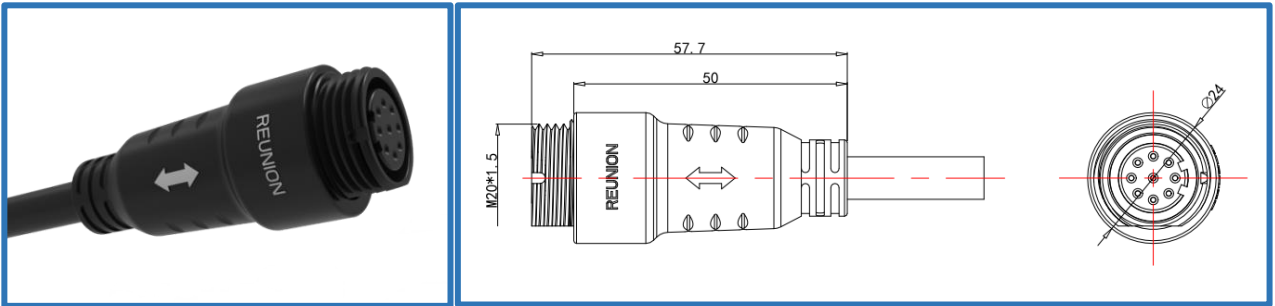
PEJ.2M309.NA : 2M9Pins Straight Plug



SEJ.2M309.NL : 2M9Pins Fixed Socket



SHJ.2M309.NL : 2M9Pins Free Socket



9Pins Contacts Configuration

Plns	Contacts OD(mm)	Voltage(Vac)	Current(A)	Contact resistance(mΩ)	Insulation resistance(MΩ)	Mating(times)	Protection Class	Temperature
9	0.9	500	9	6	>1000	>500	IP67	-40~105℃

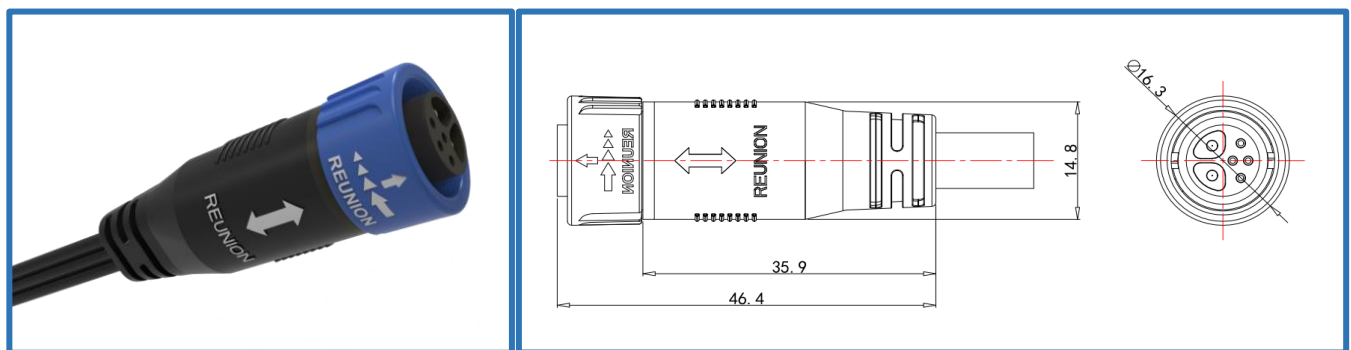
# X SERIES

## X Series Power & Signal Connectors

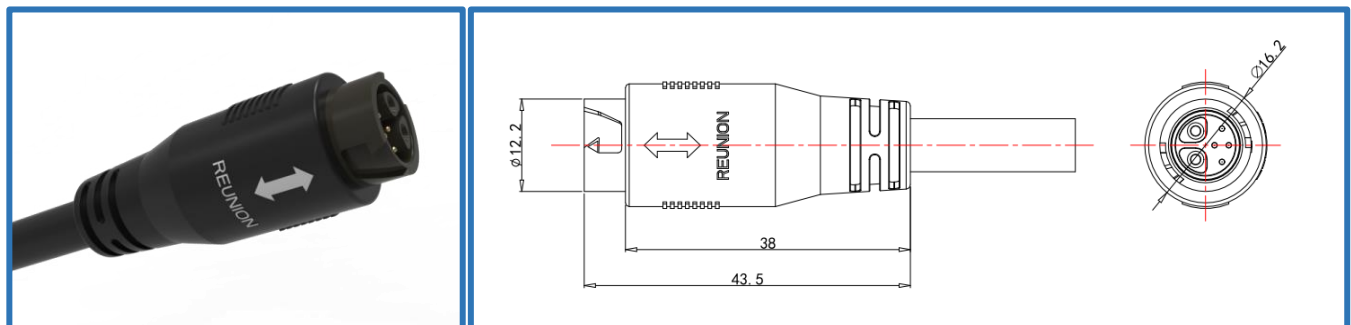
- Safe and reliable connection system;
- Multipole, power and signal output;
- Solder or PCB print contacts;
- Compact design for space saving;
- Plastic shell, IP67 waterproof;

## 1X SERIES

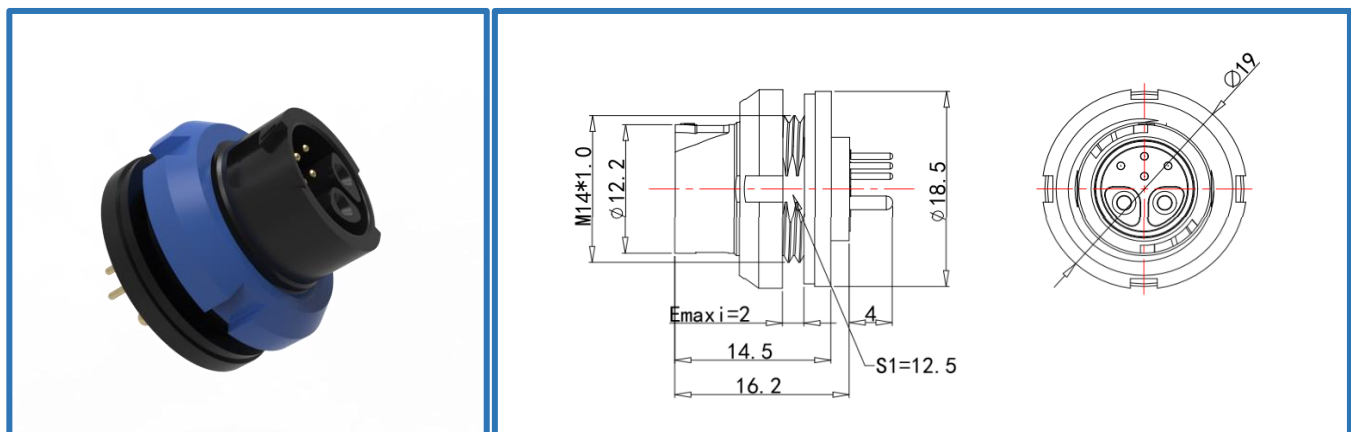
### PAN.1X406.NA : 1X2+4Pins Straight Plug



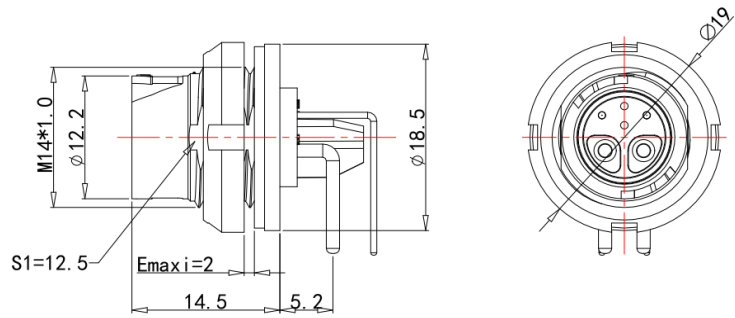
### SHN.1X406.NL : 1X2+4Pins Free Socket



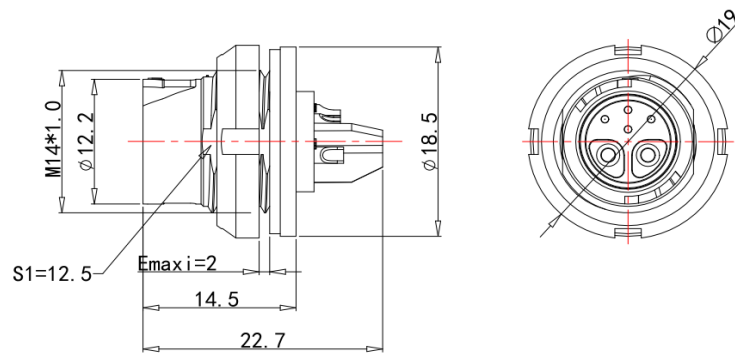
### SEN.1X406.NN : 1X2+4Pins Fixed Socket, PCB



### SEN.1X406.NV : 1X2+4Pins Fixed Socket, PCB



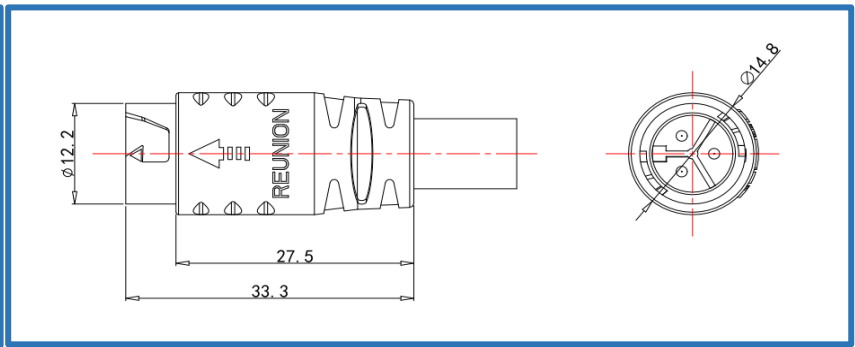
### SEN.1X406.NL : 1X2+4Pins Fixed Socket, Solder



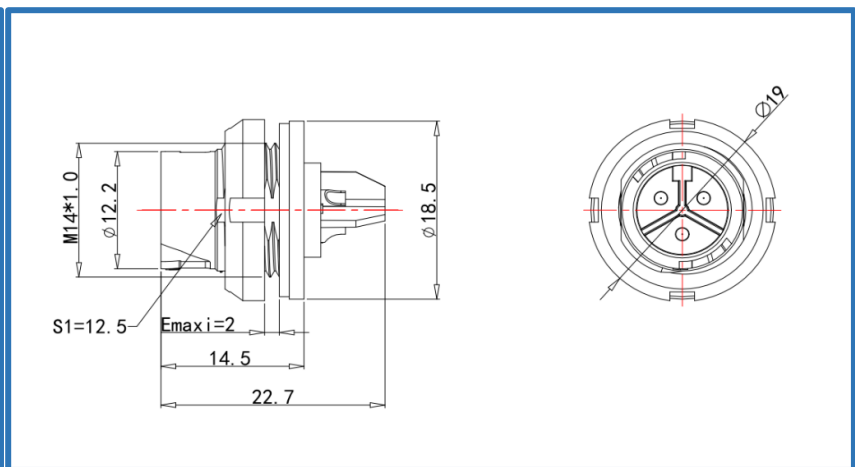
### 2+4Pins Contacts Configuration

Plns	Contacts OD(mm)	Voltage(Vac)	Current(A)	Contact resistance(m $\Omega$ )	Insulation resistance(M $\Omega$ )	Mating(times)	Protection Class	Temperature
2-power	1.3	500	12	7.5	>1000	>500	IP67	-40~105°C
4-signal	0.7	50	6	5				

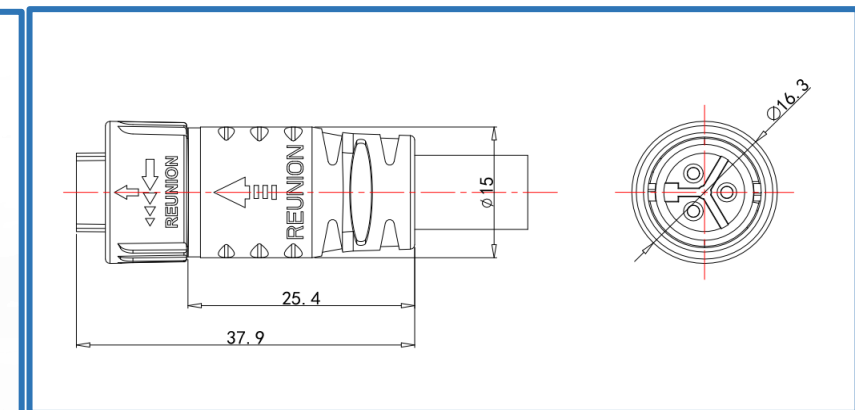
### SHG.1X303.NA : 1X3Pins Free Socket



### SEG.1X303.NA : 1X3Pins Fixed Socket



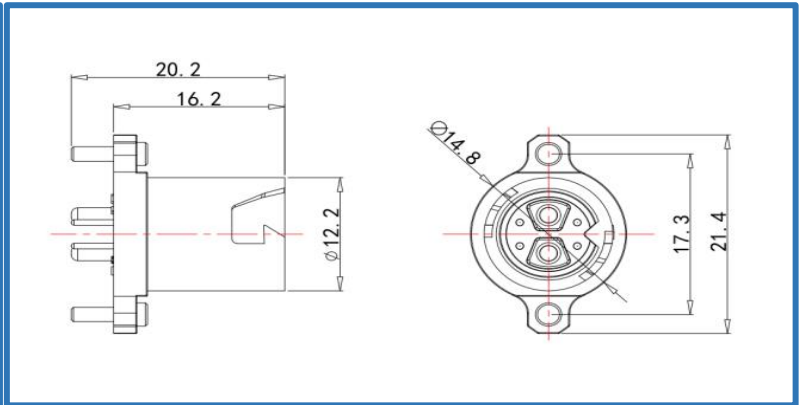
### PAG.1X303.NL : 1X3Pins Straight Plug



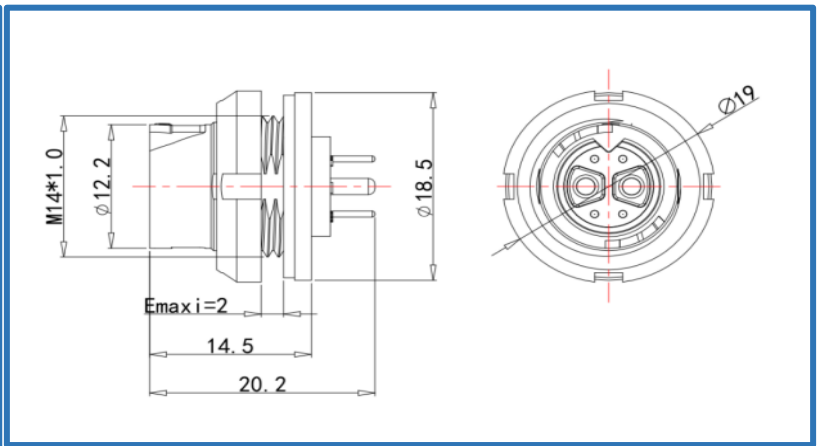
### 3Pins Contacts Configuration

Pins	Contacts OD(mm)	Voltage(Vac)	Current(A)	Contact resistance(mΩ)	Insulation resistance(MΩ)	Mating(times)	Protection Class	Temperature
3	1.3	250	12	7.5	>1000	>500	IP67	-40~105°C

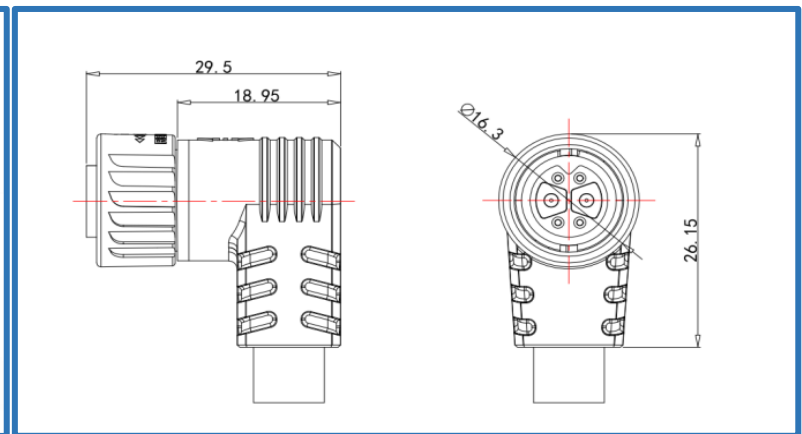
### SGN.1X406.NN : 1X2+4Pins Fixed Socket



### SCN.1X406.NN : 1X2+4Pins Fixed Socket



### PCN.1X406.NA : 1X2+4Pins Elbow Plug



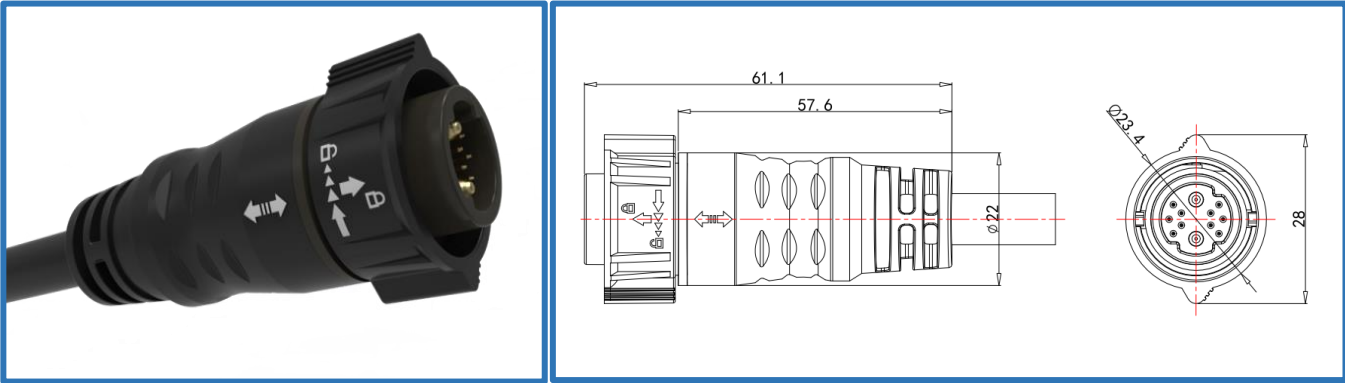
### 2+4Pins Contacts Configuration

Pins	Contacts OD(mm)	Voltage(Vac)	Current(A)	Contact resistance(mΩ)	Insulation resistance(MΩ)	Mating(times)	Protection Class	Temperature
2-power	1.6	500	16	4	>1000	>500	IP67	-40~105°C

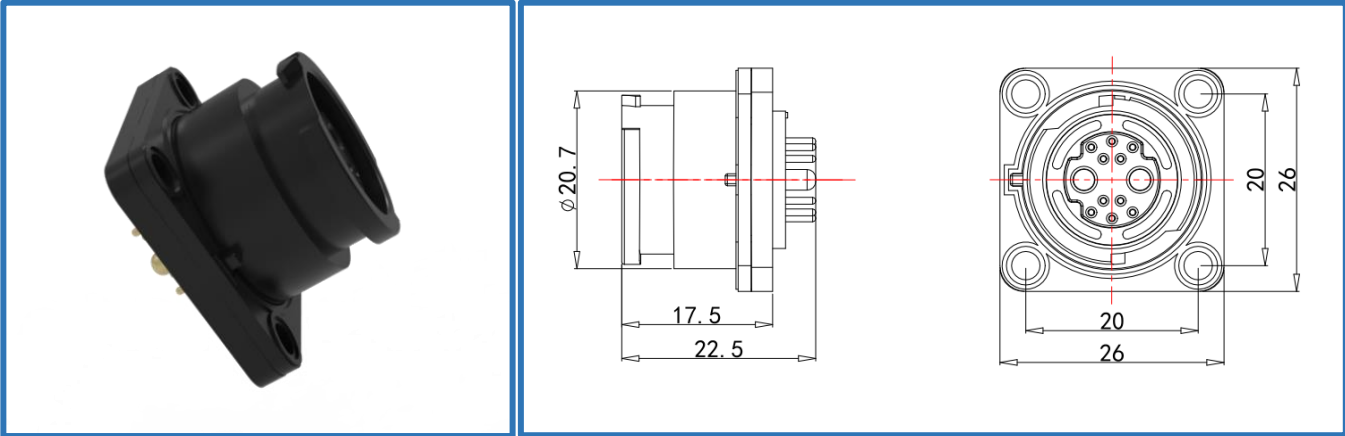
4-signal	0.7	50	6	7.5				
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2X SERIES

PMG.2X312.NA : 2X2+10Pins Straight Plug



SMG.2X312.NN : 2X2+10Pins Fixed Socket

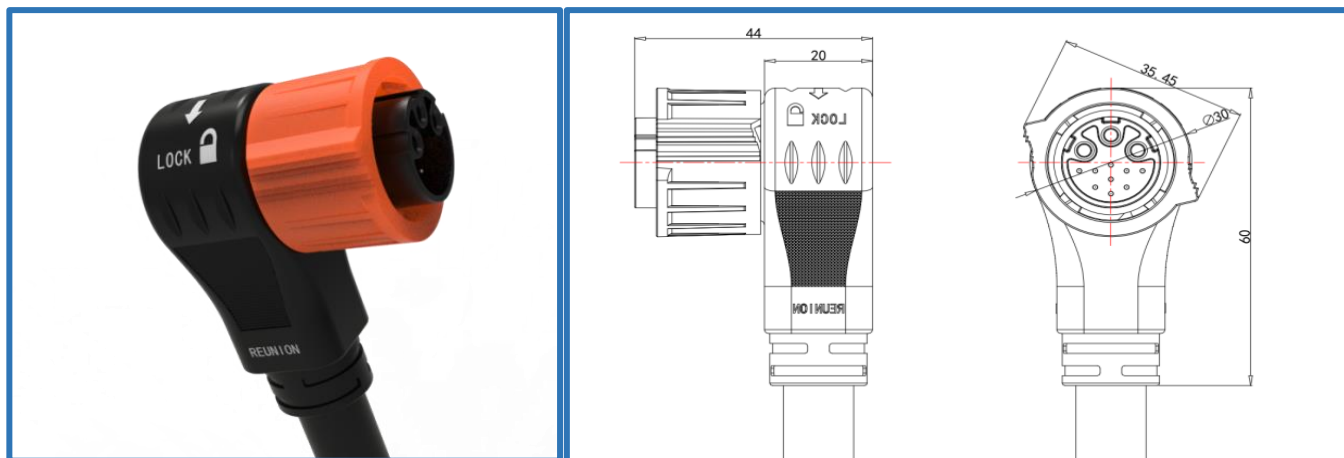


2+10Pins Contacts Configuration

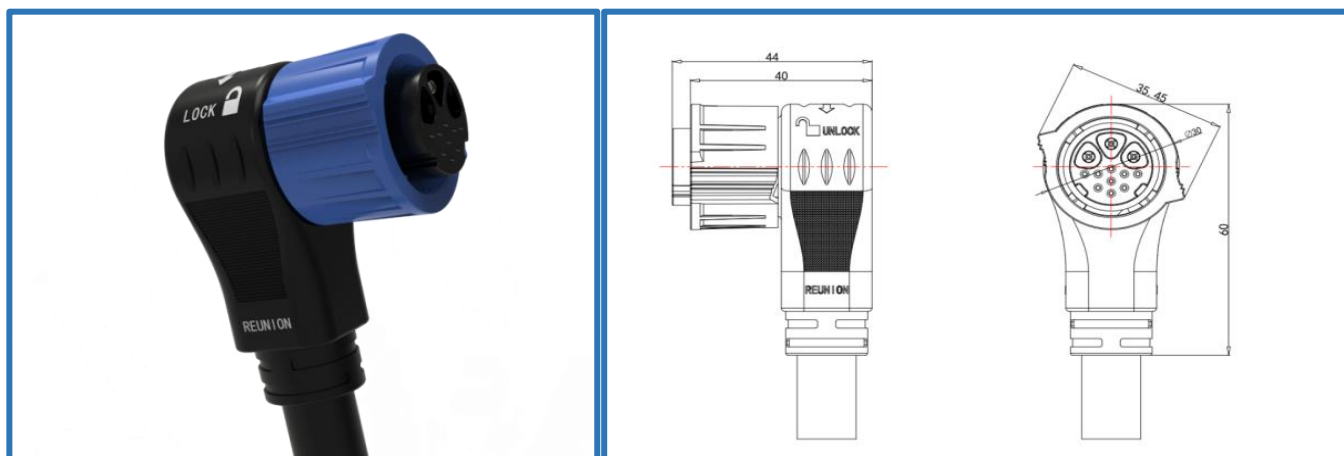
Pins	Contacts OD(mm)	Voltage(Vac)	Current(A)	Contact resistance(mΩ)	Insulation resistance(MΩ)	Mating(times)	Protection Class	Temperature
2-power	2.4	300	20	2.5	>3000	>500	IP67	-40~105℃
10-signal	0.6	30	5	8.5				

## 3X SERIES

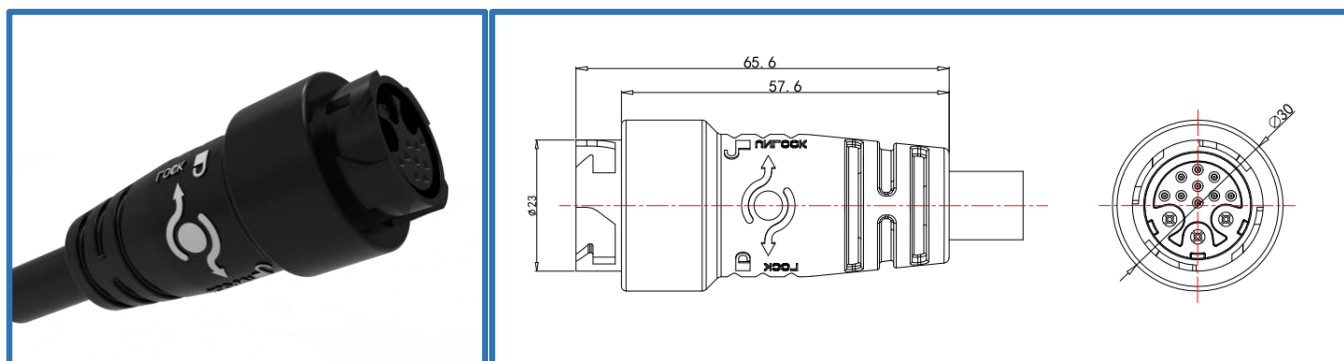
**PAD.3X412.NL : 3X3+9Pins Elbow Plug-Female**



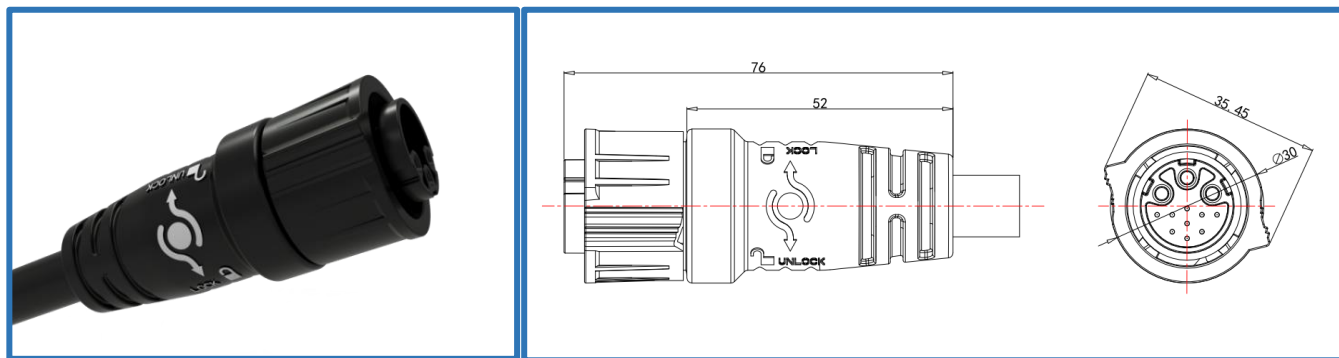
**PAD.3X412.NA : 3X3+9Pins Elbow-Male**



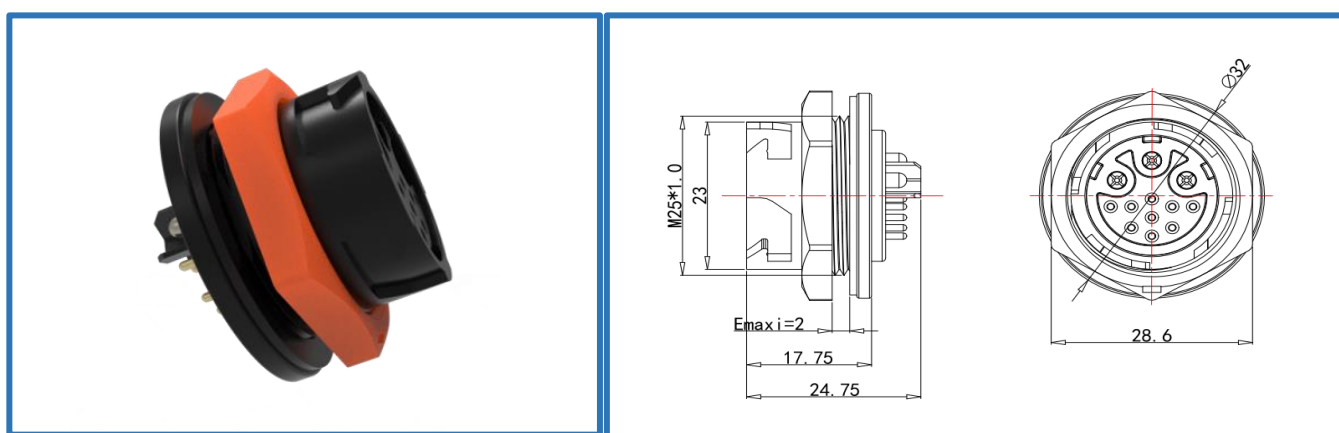
**SHD.3X412.NA : 3X3+9pins Free Socket-Male**



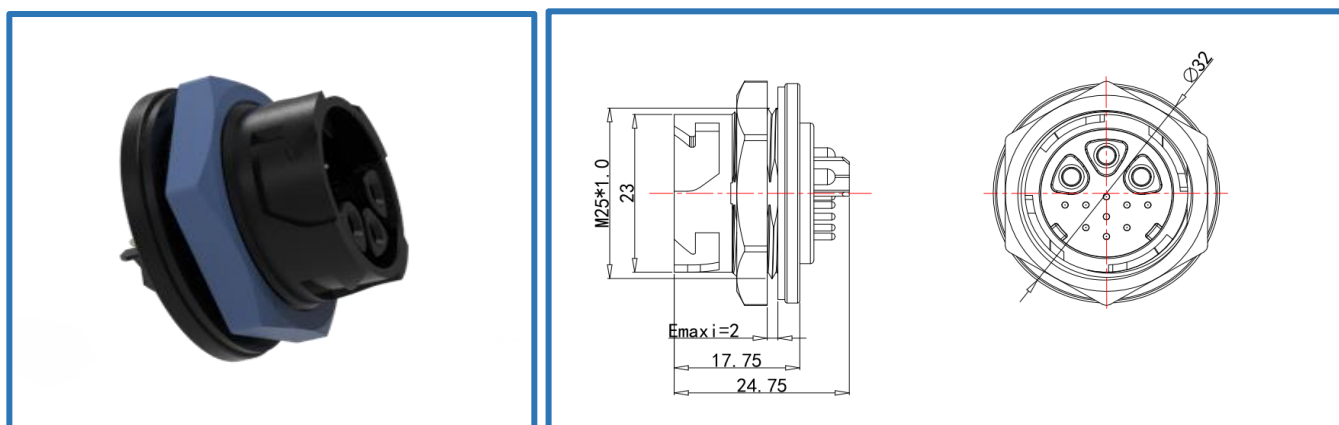
### PBD.3X412.NL : 3X3+9Pins Straight Plug-Female



### SED.3X412.ND : 3X3+9Pins Fixed Socket-Female, PCB



### SED.3X412.NN : 3X3+9Pins Fixed Socket-Male, PCB



### 3+9Pins Contacts Configuration

Pins	Contacts OD(mm)	Voltage(Vac)	Current(A)	Contact resistance(mΩ)	Insulation resistance(MΩ)	Mating(times)	Protection Class	Temperature
3-power	2.4	300	30	2.5	>3000	>500	IP67	-40~105°C
9-signal	0.9	30	5	6				