



**Series**

**Page**

**M23 Series**

1-8

IP rating: IP67  
 Coupling: threaded  
 Shield: shielded / unshielded  
 No. of contact: for power: 6,8  
 for signal: 9,12,17,19



**SF Series**

9-17

IP rating: IP67  
 Coupling: push-pull  
 No. of contact: SF6: 2-5  
 SF8: 2-8  
 SF10: 2-5  
 SF12: 2-9  
 SF16: 2-10  
 SF20: 2-12



**SA Series**

19-26

IP rating: IP67  
 Coupling: push-pull  
 No. of contact: SA6: 2-5  
 SA8: 2-8  
 SA10: 2-5  
 SA12: 2-9  
 SA16: 2-10  
 SA20: 2-12  
 SA28: 2-26



**ST Series**

29-30

IP rating: IP67  
 Coupling: threaded  
 No. of contact: 2-9



Series	Page
<b>SP Series</b>	31-36

IP rating: IP68  
 Coupling: threaded  
 No. of contact: SP11: 2-5  
                   SP13: 2-9  
                   SP17: 2-10  
                   SP21: 2-12  
                   SP29: 2-26



<b>SY Series</b>	37-40
------------------	-------

IP rating: IP67  
 Coupling: bayonet  
 No. of contact: SY13: 2-9  
                   SY17: 2-10  
                   SY21: 2-12



<b>WA22 Series</b>	43-45
--------------------	-------

IP rating: IP67  
 Coupling: threaded  
 No. of contact: 3+PE, 6+PE



<b>WAC3 Series</b>	47
--------------------	----

IP rating: IP65  
 Coupling: bayonet  
 No. of contact: 3



**Series** **Page**

**RJ45F Series**

48

IP rating: IP67  
Coupling: bayonet



**WP Series**

49-50

IP rating: IP44 , IP55  
Coupling: bayonet  
No. of contact: 2-12



**WL52 Series**

51-55

IP rating: IP67  
Coupling: threaded  
No. of contact: 19



**WD Series**

59-60

IP rating: IP55, IP65  
Coupling: threaded  
No. of contact: 4, 15



**Series**

**Page**

**WS Series**

61-68

IP rating: for indoor only  
Coupling: threaded  
No. of contact: 2-61



**WF Series**

69-76

IP rating: IP44, IP55, IP65, IP67  
Coupling: threaded  
No. of contact: 2-61



**WY Series**

77-83

IP rating: IP44, IP55, IP65, IP66, IP67  
Coupling: bayonet  
No. of contact: 2-61



**Cable gland**

85

PG7, PG9, PG11, PG13.5, PG16, PG21,  
PG29, PG36



Series

Page

Solder contact spec

87-88

For WP, WS, WF, WY series



Crimp contact spec and tool

89-92

For SF, SA, SP, SY, WP, WS, WF, WY series



**WEiPU®**  
**IP67**

**M23**  
**For power**



● **M23 for power**

**Material and spec**

Shell material	Zinc alloy with nickel plating
Contact material	Brass with gold plating
Insert material	PA66
Insulation resistance	> 10 <sup>13</sup> mΩ
Termination	Crimp
Temperature range	-40°C ~ +125°C
Mating cycle	1000
Cable outer diameter range	I: 4-8mm II: 8-13mm III: 12-17mm
IP rating	IP67
Coupling	Threaded coupling

**M23 for power contact arrangement and spec**

Number of contact	6(5+PE)	8(3+4+PE)
Male contact face view		
Rated current (A)	28	8
Contact diameter (mm)	∅2	∅1×4 ∅2×4
Rated voltage (AC.V)	600	300
Test voltage(AC.V) 1 min	4000	2500

**Male contact cable connector**



M23DJ TK

For power

J: male contact  
K: female contact

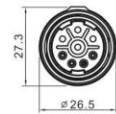
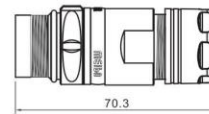
Number of contact

TK: straight back shell  
TL: angled back shell

★ **Color**  
GY: gray (standard)  
BK: black  
BU: blue  
PL: Purple  
OG: orange  
GN: green

Cable outer diameter range  
I: 4-8mm II: 8-13mm III: 12-17mm

S: Shielded  
U: Unshielded

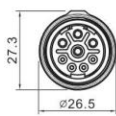
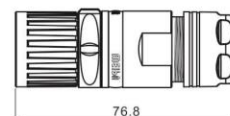


★ If more than one M23 connector are used on same device, 6 different colored rubber rings are used to avoid mismatching or mis mating

**Female contact cable connector**



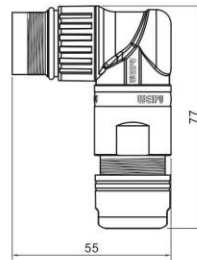
M23DK\_TK\_ \_ \_





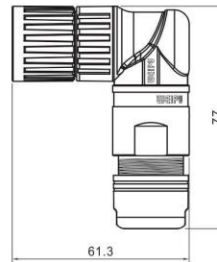
**Male contact angled cable connector**

M23DJ\_TL\_ \_ \_



**Female contact angled cable connector**

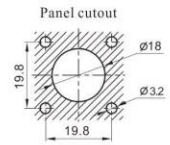
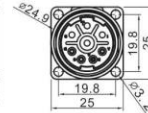
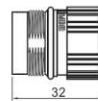
M23DK\_TL\_ \_ \_



**Male contact receptacle**

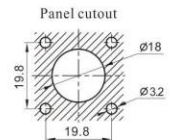
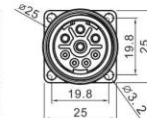
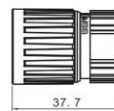
M23DJ\_Z

Number of contact } **Color**  
 Z: straight receptacle } GY: gray (standard)  
 ZL: angled receptacle } BK: black  
 } BU: blue  
 } PL: Purple  
 } OG: orange  
 } GN: green



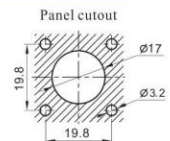
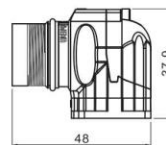
**Female contact receptacle**

M23DK\_Z\_



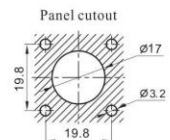
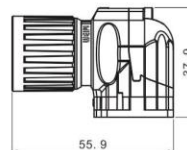
**Male contact angled receptacle**

M23DJ\_ZL\_



**Female contact angled receptacle**

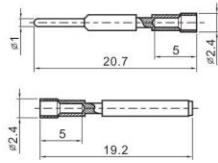
M23DK\_ZL\_



## M23 for power crimp-contact spec

### 8A Crimp contact

Contact diameter:  $\varnothing 1$   
Material: Brass with gold plating



#### 8A Male crimp contact

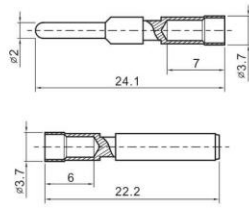
Wire size	Stripping length	Male crimp contact p/n	Crimping tool p/n
0.2-1.0mm <sup>2</sup> AWG 23-17	4mm	YJ1-20.7-1.0AU	CT-W26/12

#### 8A Female crimp contact

Wire size	Stripping length	Female crimp contact p/n	Crimping tool p/n
0.25-1.0mm <sup>2</sup> AWG 23-17	4mm	YK1-19.2-1.0AU	CT-W26/12

### 28A Crimp contact

Contact diameter:  $\varnothing 2$   
Material: Brass with gold plating



#### 28A Male crimp contact

Wire size	Stripping length	Male crimp contact p/n	Crimping tool p/n
0.75-2.5mm <sup>2</sup> AWG 18-13	7mm	YJ2-24.1-2.5AU	CT-W26/12
2.5-4mm <sup>2</sup> AWG 14-12	7mm	YJ2-24.1-4.0AU	CT-W26/12

#### 28A Female crimp contact

Wire size	Stripping length	Female crimp contact p/n	Crimping tool p/n
0.75-2.5mm <sup>2</sup> AWG 18-13	7mm	YK2-22.2-2.5AU	CT-W26/12
2.5-4mm <sup>2</sup> AWG 14-12	7mm	YK2-22.2-4.0AU	CT-W26/12

### Crimp tool

For crimping the male / female contacts



Part number	Crimping wire range mm <sup>2</sup> /AWG
CT-W26/12	0.13-3.33mm <sup>2</sup> /26-12

## IP67 M23 Series



3



**WEiPU®**  
**IP67**

**M23**  
for signal



● **M23 for signal**

**Material and spec**

Shell material	Zinc alloy with nickel plating
Contact material	Brass with gold plating
Insert material	PA66
Insulation resistance	9, 12 pins: >10 <sup>10</sup> mΩ      17, 19 pins: >10 <sup>8</sup> mΩ
Termination	Crimp
Temperature range	-40°C~+125°C
Mating cycle	1000
Cable outer diameter range	I: 4-8mm    II: 8-13mm    III: 12-17mm
IP rating	IP67
Coupling	Threaded coupling

**Male contact cable connector**

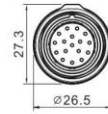
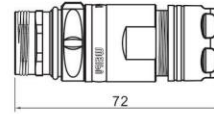


M23S J TK  
 For signal  
 J: male contact  
 K: female contact  
 Number of contact  
 TK: straight back shell  
 TL: angled back shell

★ **Key-way positions and associated colors**

- N: gray (Standard)
  - S: black
  - H: orange
  - X: blue
  - Y: green
  - Z: Purple
- } special order

Cable outer diameter range  
 I: 4-8mm    II: 8-13mm    III: 12-17mm  
 S: Shielded  
 U: Unshielded

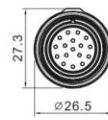
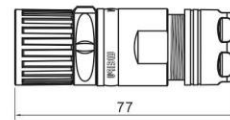


★ If more than one M23 connectors are used on same device, 6 different key-way positions are associated with 6 different colored rubber rings to avoid mismatching or mismatching

**Female contact cable connector**



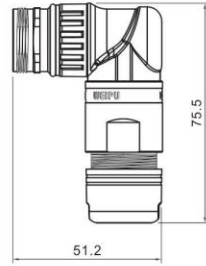
M23SK\_TK\_---





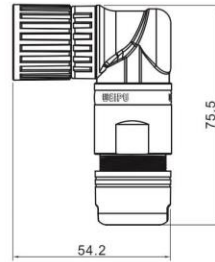
**Male contact angled cable connector**

M23SJ\_TL\_ \_ \_



**Female contact angled cable connector**

M23SK\_TL\_ \_ \_

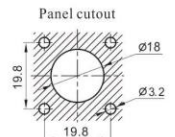
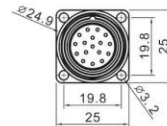
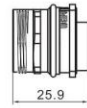


**Male contact receptacle**

M23SJ\_Z

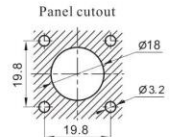
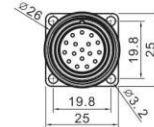
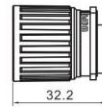
Number of contact  
Z: straight receptacle  
ZL: angled receptacle

**Key-way and colors**  
N: gray (Standard)  
S: black  
H: orange  
X: blue  
Y: green  
Z: Purple



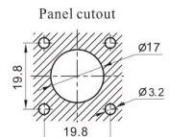
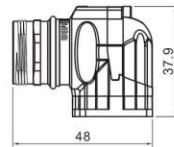
**Female contact receptacle**

M23SK\_Z\_



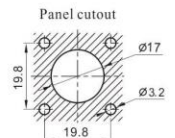
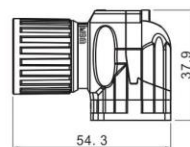
**Male contact angled receptacle**

M23SJ\_ZL\_



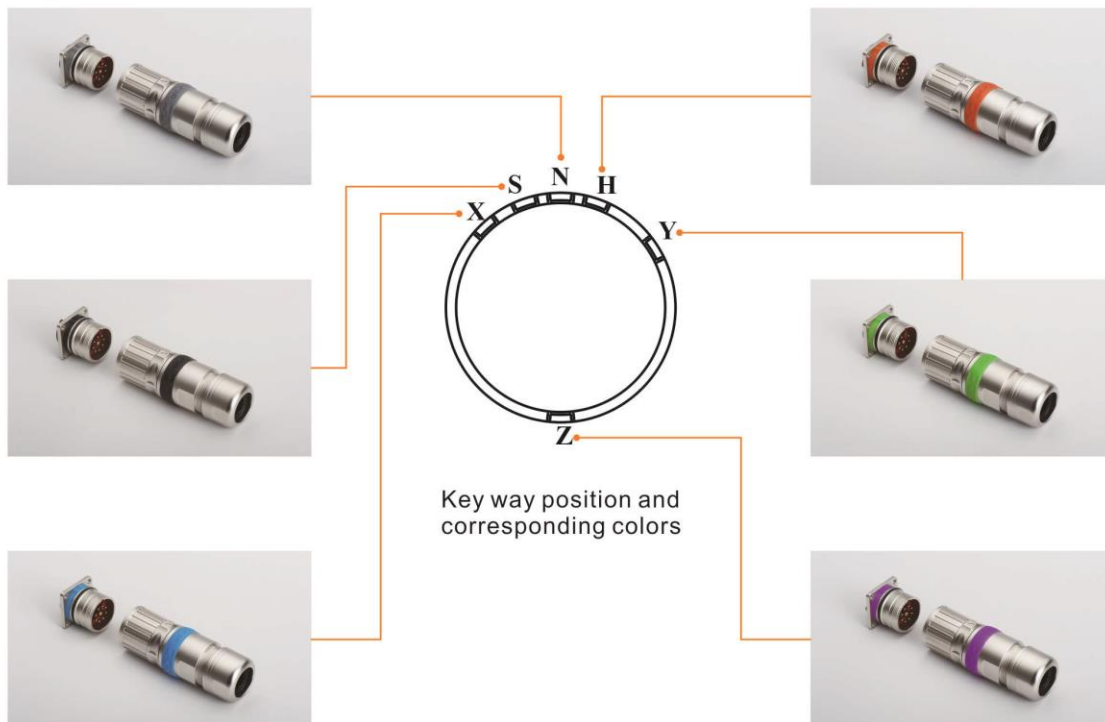
**Female contact angled receptacle**

M23SK\_ZL\_



### M23 for signal contact arrangement and spec

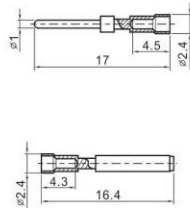
Number of contact	9(8+1)	12	17	19(16+3)
Male contact face view				
Rated current (A)	8 20	8	8	8 10
Contact diameter (mm)	$\varnothing 1 \times 8$ $\varnothing 2 \times 1$	$\varnothing 1$	$\varnothing 1$	$\varnothing 1 \times 16$ $\varnothing 1.5 \times 3$
Rated voltage (AC.V)	300	300	150	150
Test voltage(AC.V) 1 min	2500	2500	1500	1500
Key-ways  Female contact face view      Male contact face view	N, S, H, X, Y	N, S, H, X, Y, Z	N, S, H, X, Y, Z	N, S, H, X, Y



## M23 for signal crimp-contact spec

### 8A Crimp contact

Contact diameter:  $\varnothing 1$   
Material: Brass with gold plating



#### 8A Male crimp contact

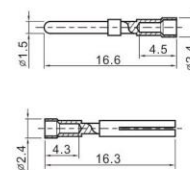
Wire size	Stripping length	Male crimp contact p/n	Crimping tool p/n
0.08-0.52mm <sup>2</sup> AWG 28-20	4mm	YJ1-17-0.56AU	CT-W32/20
0.14-1mm <sup>2</sup> AWG 26-17	4mm	YJ1-17-1.0AU	CT-W26/12
1-1.5mm <sup>2</sup> AWG 17-16	4mm	YJ1-17-1.5AU	CT-W26/12

#### 8A Female crimp contact

Wire size	Stripping length	Female crimp contact p/n	Crimping tool p/n
0.08-0.52mm <sup>2</sup> AWG 28-20	4mm	YK1-16.4-0.56AU	CT-W32/20
0.14-1mm <sup>2</sup> AWG 26-17	4mm	YK1-16.4-1.0AU	CT-W26/12
1-1.5mm <sup>2</sup> AWG 17-16	4mm	YK1-16.4-1.5AU	CT-W26/12

### 10A Crimp contact

Contact diameter:  $\varnothing 1.5$   
Material: Brass with gold plating



#### 10A Male crimp contact

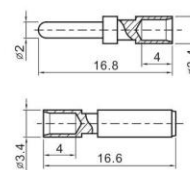
Wire size	Stripping length	Male crimp contact p/n	Crimping tool p/n
0.14-1mm <sup>2</sup> AWG 26-17	4mm	YJ1.5-16.6-1.0AU	CT-W26/12

#### 10A Female crimp contact

Wire size	Stripping length	Female crimp contact p/n	Crimping tool p/n
0.14-0.52mm <sup>2</sup> AWG 26-20	4mm	YK1.5-16.3-0.56AU	CT-W26/12
0.52-1mm <sup>2</sup> AWG 20-17	4mm	YK1.5-16.3-1.0AU	CT-W26/12

### 20A Crimp contact

Contact diameter:  $\varnothing 2$   
Material: Brass with gold plating



#### 20A Male crimp contact

Wire size	Stripping length	Male crimp contact p/n	Crimping tool p/n
0.75-2.5mm <sup>2</sup> AWG 18-13	4mm	YJ2-16.8-2.5AU	CT-W26/12

#### 20A Female crimp contact

Wire size	Stripping length	Female crimp contact p/n	Crimping tool p/n
0.75-2.5mm <sup>2</sup> AWG 18-13	4mm	YK2-16.6-2.5AU	CT-W26/12

### Crimp tool

For crimping the male / female contacts



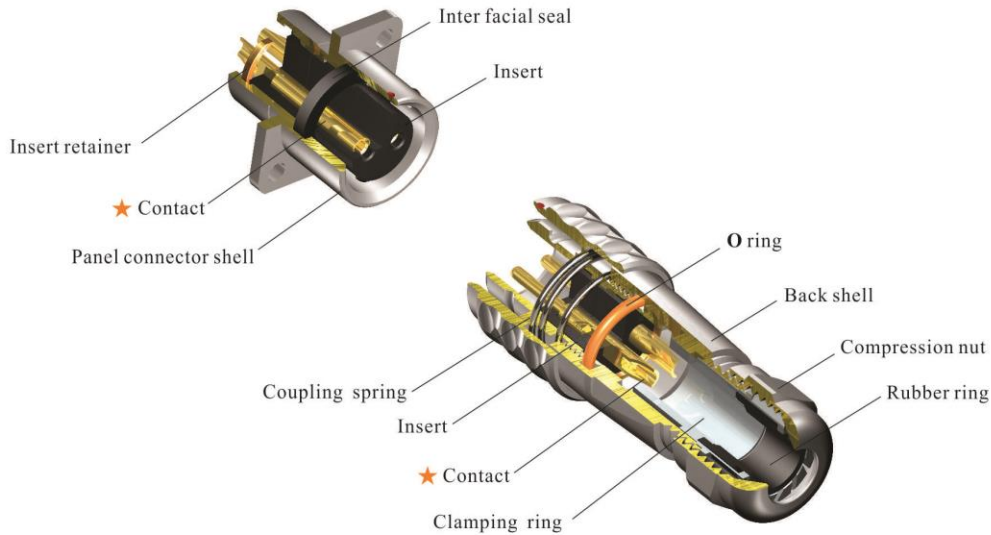
Part number	Crimping wire range mm <sup>2</sup> /AWG
CT-W26/12	0.13-3.33mm <sup>2</sup> / 26-12
CT-W32/20	0.03-0.52mm <sup>2</sup> / 32-20

**WEiPU®**  
**IP67**

**SF**  
**Series**



- SF Series Ip44 / IP67
- Push-pull





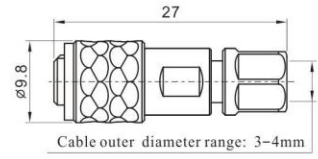
★ Each side can be male or female contact

**Material and spec**

Coupling	Push-pull
Shell material	Brass with chrome plating
Insert material	PPS, max temperature 260 °C
Contact material	Brass with gold plating
Termination	Solder: SF6, SF8, SF10, SF12, SF16, SF20 Crimp: SF16, SF20 Screw: SF20 (Ø2.5mm contact)
IP rating	SF6, SF8: IP44 / IP67      SF10, SF12, SF16, SF20: IP67
Mating cycle	500
Temperature range	-40°C~+85°C
Insulation resistance (MΩ)	2000

**SF6 Series IP44**



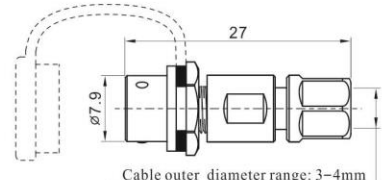
**Cable connector**  
Mate with SF611, SF612

**SF610/P**      **SF610/S**



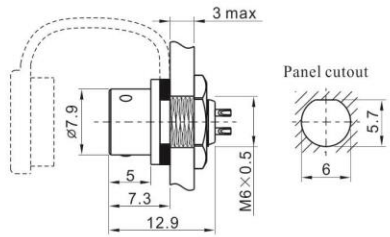
Male contact      Number of contact  
Female contact

**In-line cable connector**  
Mate with SF610

**SF611/P**      **SF611/S**





**Rear-nut mount**  
Mate with SF610

**SF612/P**      **SF612/S**

Number of contact

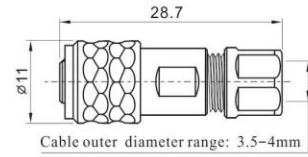
**Solder contact spec**

Number of contact	2	3	4	5
Male contact face view				
Rated current (A)	3	3	3	3
Contact diameter (mm)	0.6	0.6	0.6	0.6
Rated voltage (AC.V)	30	30	30	30
Test voltage(AC.V) 1 min	500	500	500	500
Contact resistance (mΩ)	10	10	10	10
Wire size (mm <sup>2</sup> / AWG)	≤ 0.5/20	≤ 0.5/20	≤ 0.5/20	≤ 0.5/20

**SF6 Series IP67**



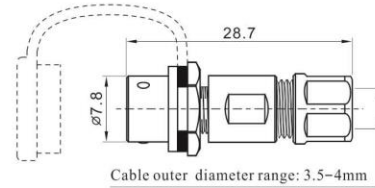
**Cable connector**  
Mate with SF611B, SF612B



SF610B/P — Male contact  
SF610B/S — Female contact  
Number of contact



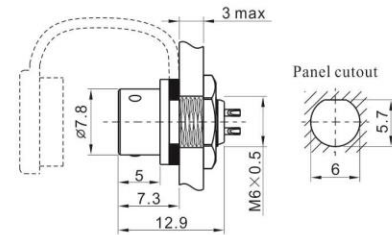
**In-line cable connector**  
Mate with SF610B



SF611B/P — Male contact  
SF611B/S — Female contact  
Number of contact



**Rear-nut mount**  
Mate with SF610B



SF612B/P — Male contact  
SF612B/S — Female contact  
Number of contact

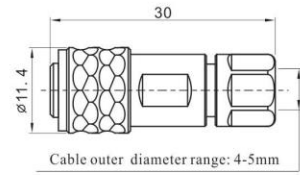
**Solder contact spec**

Number of contact	2	3	4	5
Male contact face view				
Rated current (A)	3	3	3	3
Contact diameter (mm)	0.6	0.6	0.6	0.6
Rated voltage (AC.V)	30	30	30	30
Test voltage(AC.V) 1 min	500	500	500	500
Contact resistance (mΩ)	10	10	10	10
Wire size (mm <sup>2</sup> /AWG)	≤ 0.5/20	≤ 0.5/20	≤ 0.5/20	≤ 0.5/20

**SF8 Series IP44**



**Cable connector**  
Mate with SF811, SF812



SF810/P\_

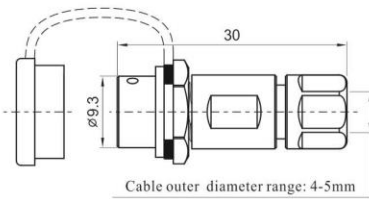
SF810/S\_

Male contact

Number of contact  
Female contact



**In-line cable connector**  
Mate with SF810

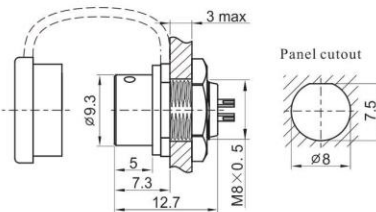


SF811/P\_

SF811/S\_



**Rear-nut mount**  
Mate with SF810



SF812/P\_

SF812/S\_

Number of contact

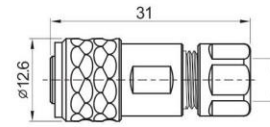
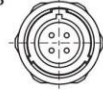
**Solder contact spec**

Number of contact	2	3	4	6	8
Male contact face view					
Rated current (A)	5	5	3	3	3
Contact diameter (mm)	1	1	0.6	0.6	0.6
Rated voltage (AC.V)	125	125	30	30	30
Test voltage(AC.V) 1 min	1000	1000	500	500	500
Contact resistance (mΩ)	5	5	10	10	10
Wire size (mm <sup>2</sup> / AWG)	≤ 0.75/18	≤ 0.75/18	≤ 0.5/20	≤ 0.5/20	≤ 0.5/20

**SF8 Series IP67**



**Cable connector**  
Mate with SF811B, SF812B



Cable outer diameter range: 4-5mm

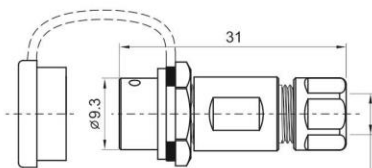
SF810B/P\_

SF810B/S\_

Male contact  
Number of contact  
Female contact



**In-line cable connector**  
Mate with SF810B



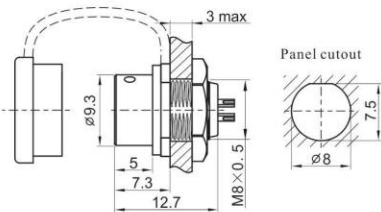
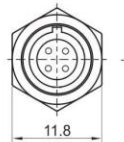
Cable outer diameter range: 4-5mm

SF811B/P\_

SF811B/S\_



**Rear-nut mount**  
Mate with SF810B



Panel cutout

SF812B/P\_

SF812B/S\_

Number of contact

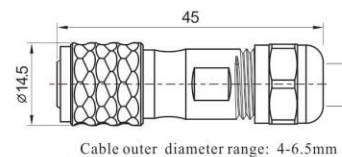
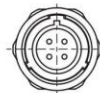
**Solder contact spec**

Number of contact	2	3	4	6	8
Male contact face view					
Rated current (A)	5	5	3	3	3
Contact diameter (mm)	1	1	0.6	0.6	0.6
Rated voltage (AC.V)	125	125	30	30	30
Test voltage(AC.V) 1 min	1000	1000	500	500	500
Contact resistance (mΩ)	5	5	10	10	10
Wire size (mm <sup>2</sup> / AWG)	≤ 0.75/18	≤ 0.75/18	≤ 0.5/20	≤ 0.5/20	≤ 0.5/20

**SF10 Series IP67**



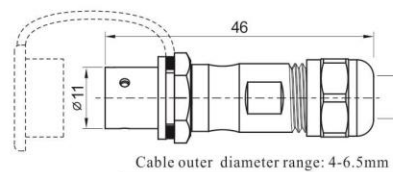
**Cable connector**  
Mate with SF1011, SF1012



SF1010 / P\_      SF1010 / S\_  
Male contact      Number of contact  
Female contact



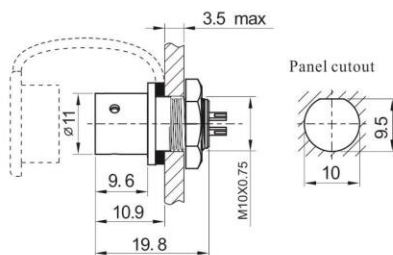
**In-line cable connector**  
Mate with SF1010



SF1011 / P\_      SF1011 / S\_



**Rear-nut mount**  
Mate with SF1010



SF1012 / P\_      SF1012 / S\_  
Number of contact

**Solder contact spec**

Number of contact	2	3	4	5
Male contact face view				
Rated current (A)	5	5	3	3
Contact diameter (mm)	1	1	0.7	0.7
Rated voltage (AC.V)	180	180	125	125
Test voltage(AC.V) 1 min	1000	1000	1000	1000
Contact resistance (mΩ)	5	5	10	10
Wire size (mm <sup>2</sup> /AWG)	≤ 0.75/18	≤ 0.75/18	≤ 0.5/20	≤ 0.5/20

## SF12 Series IP67

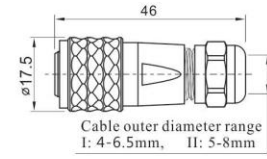
**SF  
12**



SF1210 / P\_ — SF1210 / S\_

**Cable connector**  
Mate with SF1211, SF1212,  
SF1213

Cable outer diameter  
I: 4-6.5mm, II: 5-8mm  
Number of contact

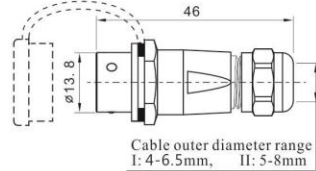


Cable outer diameter range  
I: 4-6.5mm, II: 5-8mm



SF1211 / P\_ — SF1211 / S\_ —

**In-line cable connector**  
Mate with SF1210



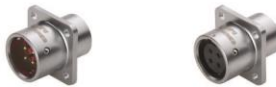
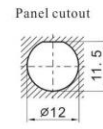
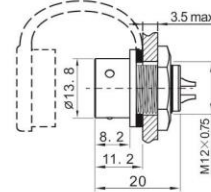
Cable outer diameter range  
I: 4-6.5mm, II: 5-8mm



SF1212 / P\_ — SF1212 / S\_

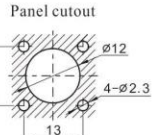
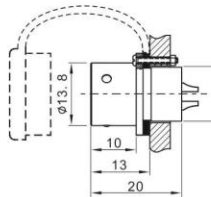
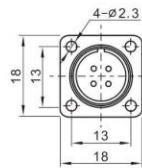
**Rear-nut mount**  
Mate with SF1210

Number of contact



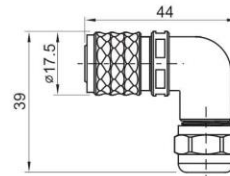
SF1213 / P\_ — SF1213 / S\_ —

**Square flange**  
Mate with SF1210



SF1214 / P\_ II SF1214 / S\_ II

**Angled cable connector**  
Mate with SF1211, SF1212, SF1213



Cable outer diameter range: II: 5-8mm

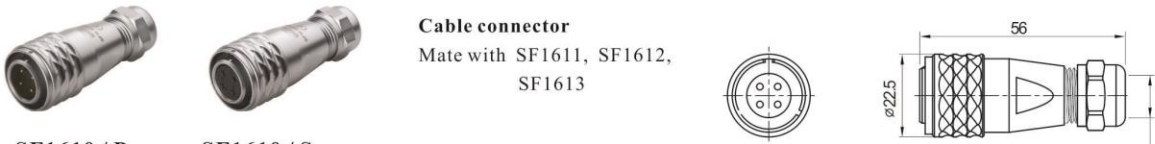
### Solder contact spec

Number of contact	2	3	4	5	6	7	9
Male contact face view							
Rated current (A)	13	13	5	5	5	5	3
Contact diameter (mm)	1.6	1.6	1	1	1	1	0.7
Rated voltage (AC.V)	250	250	200	180	125	125	125
Test voltage(AC.V) 1 min	1500	1500	1500	1000	1000	1000	1000
Contact resistance (mΩ)	2.5	2.5	5	5	5	5	10
Wire size (mm <sup>2</sup> / AWG)	≤2/14	≤2/14	≤ 0.75/18	≤ 0.75/18	≤ 0.75/18	≤ 0.75/18	≤ 0.5/20

# SF16

## SF16 Series IP67

**Cable connector**  
Mate with SF1611, SF1612, SF1613

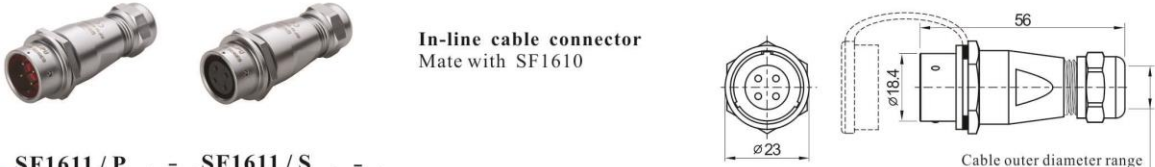


SF1610 / P --- SF1610 / S  
Number of contact

1: solder, 3: crimp  
Cable outer diameter  
I: 5-8mm, II: 8-12mm

Technical drawings show a front view with 4 contacts, a side view with dimensions: total length 56mm, cable diameter  $\phi 22.5$ , and a cable outer diameter range of I: 5-8mm, II: 8-12mm.

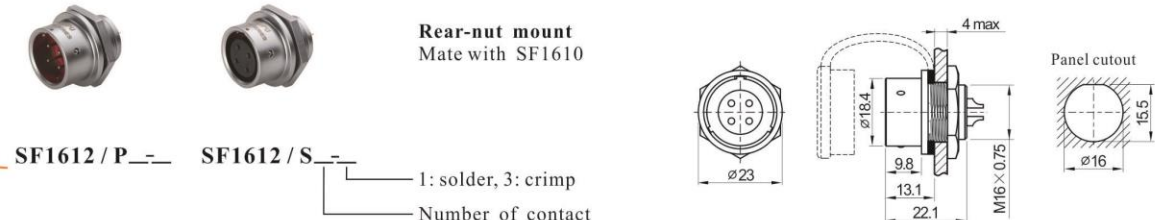
**In-line cable connector**  
Mate with SF1610



SF1611 / P --- SF1611 / S ---

Technical drawings show a front view with 4 contacts and a side view with dimensions: total length 56mm, cable diameter  $\phi 18.4$ , and a cable outer diameter range of I: 5-8mm, II: 8-12mm.

**Rear-nut mount**  
Mate with SF1610

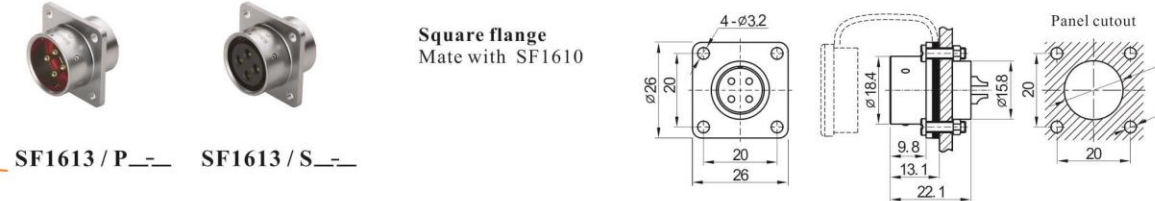


SF1612 / P --- SF1612 / S ---  
Number of contact

1: solder, 3: crimp

Technical drawings show a front view with 4 contacts, a side view with dimensions: total length 22.1mm, cable diameter  $\phi 18.4$ , and a panel cutout diameter of  $\phi 16$ .

**Square flange**  
Mate with SF1610










SF1613 / P --- SF1613 / S ---

Technical drawings show a front view with 4 contacts and a side view with dimensions: total length 22.1mm, cable diameter  $\phi 18.4$ , and a panel cutout diameter of  $\phi 16$ .

### Solder contact spec

★ Crimp contact spec see page 89-92

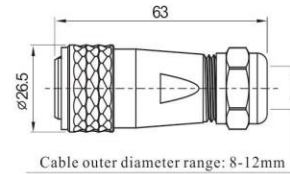
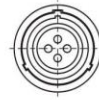
Number of contact	2	3	4	5	7	9	10
Male contact face view							
Rated current (A)	10	10	5	5	5	5	5
Contact diameter (mm)	1.5	1.5	1	1	1	1	1
Rated voltage (AC.V)	500	500	500	500	400	400	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1200	1200	1200
Contact resistance (mΩ)	2.5	2.5	5	5	5	5	5
Wire size (mm <sup>2</sup> / AWG)	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18

## SF20 Series IP67

**SF  
20**



**Cable connector**  
Mate with SF2011, SF2012,  
SF2013



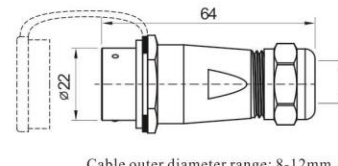
SF2010 / P\_\_ SF2010 / S\_\_

Number of contact: 1: solder, 2: screw, 3: crimp

Cable outer diameter range: 8-12mm



**In-line cable connector**  
Mate with SF2010

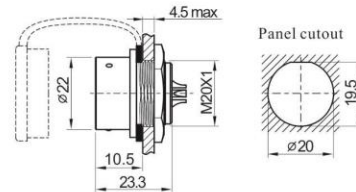


SF2011 / P\_\_ SF2011 / S\_\_

Cable outer diameter range: 8-12mm



**Rear-nut mount**  
Mate with SF2010

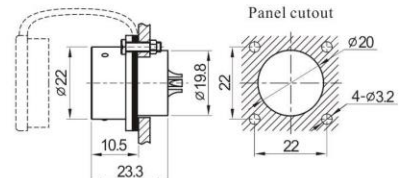
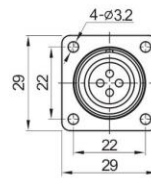


SF2012 / P\_\_ SF2012 / S\_\_

Number of contact: 1: solder, 2: screw, 3: crimp



**Square flange**  
Mate with SF2010



SF2013 / P\_\_ SF2013 / S\_\_

### Solder contact spec

★ Crimp contact spec see page 89-92

Number of contact	2	3	4	5	6	7	9	12
Male contact face view								
Rated current (A)	25	25	25	10	25 5	10	5	5
Contact diameter (mm)	2.5	2.5	2.5	1.5	2.5X4 1X2	1.5	1	1
Rated voltage (AC.V)	500	500	500	500	500	500	500	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500	1500	1200
Contact resistance (mΩ)	1	1	1	2.5	1 5	2.5	5	5
Termination	Solder Screw	Solder Screw	Solder Screw	Solder	Solder	Solder	Solder	Solder
Wire size for solder (mm <sup>2</sup> / AWG)	≤4/11	≤4/11	≤4/11	≤2/14	≤4/11 ≤0.75/18	≤2/14	≤0.75/18	≤0.75/18
Wire size for screw termination (mm <sup>2</sup> / AWG)	≤1.5/15	≤1.5/15	≤1.5/15	/	/	/	/	/

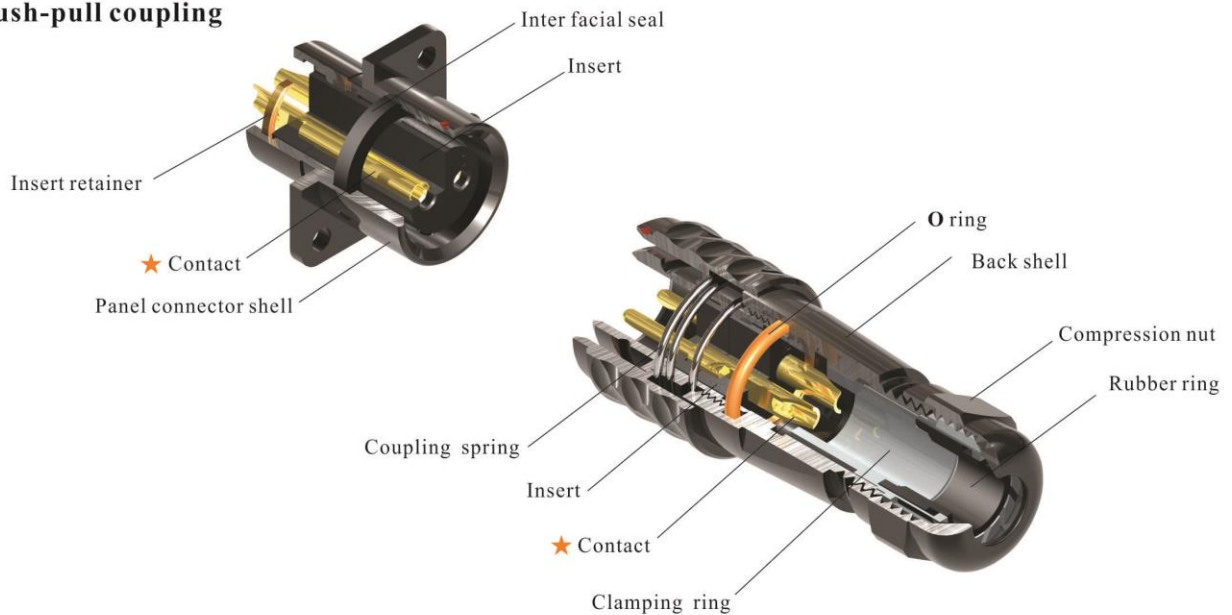


**WEiPU®**  
**IP67**

**SA**  
**Series**



- SA Series IP67
- Push-pull coupling



★ Each side can be male or female contact

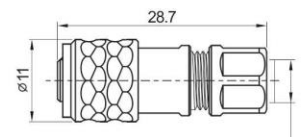
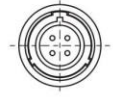
**Material and spec**

Coupling	Push-pull
Shell material	Anodized aluminium
Insert material	PPS, max temperature 260 °C
Contact material	Brass with gold plating
Termination	Solder: SA6, SA8, SA10, SA12, SA16, SA20, SA28 Crimp: SA16, SA20, SA28 Screw: SA20, SA28 (Ø2.5, Ø3.5mm contact)
IP rating	IP67
Mating cycle	500
Temperature range	-40°C~+85°C
Insulation resistance (MΩ)	2000

**SA6 Series IP67**



**Cable connector**  
Mate with SA611, SA612

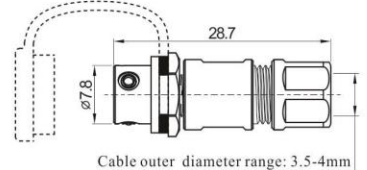
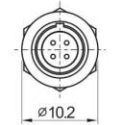


SA610 / P \_\_\_ Male contact  
SA610 / S \_\_\_ Female contact

**Colour:**  
B: black  
S: silver  
L: blue  
G: green  
R: red  
} special order  
Number of contact



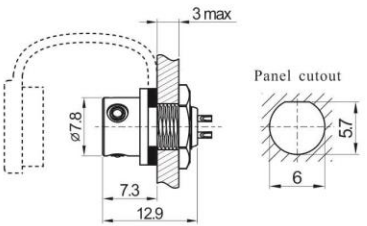
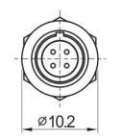
**In-line cable connector**  
Mate with SA610



SA611 / P \_\_\_ Male contact  
SA611 / S \_\_\_ Female contact



**Rear-nut mount**  
Mate with SA610



SA612 / P \_\_\_ Male contact  
SA612 / S \_\_\_ Female contact

**Solder contact spec**

Number of contact	2	3	4	5
Male contact face view				
Rated current (A)	3	3	3	3
Contact diameter(mm)	0.6	0.6	0.6	0.6
Rated voltage (AC.V)	30	30	30	30
Test voltage(AC.V) 1 min	500	500	500	500
Contact resistance(mΩ)	10	10	10	10
Wire size(mm <sup>2</sup> /AWG)	≤0.5/20	≤0.5/20	≤0.5/20	≤0.5/20

# SA 8

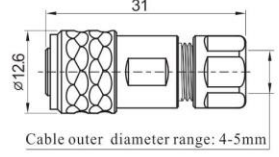
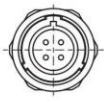
## SA8 Series IP67



**Cable connector**  
Mate with SA811, SA812

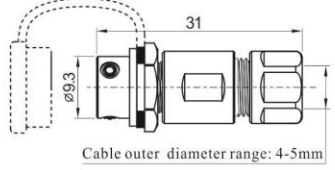
SA810/P \_\_\_ Male contact  
SA810/S \_\_\_ Female contact

**Colour:**  
B: black  
S: silver  
L: blue  
G: green  
R: red  
} special order  
Number of contact



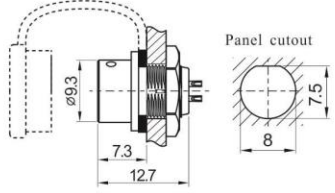
**In-line cable connector**  
Mate with SA810

SA811/P \_\_\_ SA811/S \_\_\_



**Rear-nut mount**  
Mate with SA810

SA812/P \_\_\_ SA812/S \_\_\_



### Solder contact spec

Number of contact	2	3	4	6	8
Male contact face view					
Rated current (A)	5	5	3	3	3
Contact diameter(mm)	1	1	0.6	0.6	0.6
Rated voltage (AC.V)	125	125	30	30	30
Test voltage(AC.V) 1 min	1000	1000	500	500	500
Contact resistance(mΩ)	5	5	10	10	10
Wire size(mm <sup>2</sup> /AWG)	≤0.75/18	≤0.75/18	≤0.5/20	≤0.5/20	≤0.5/20

# SA 10

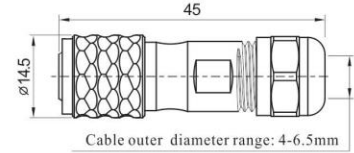
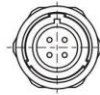
## SA10 Series IP67



**Cable connector**  
Mate with SA1011, SA1012

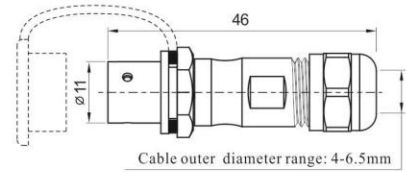
SA1010 / P — Male contact  
SA1010 / S — Female contact

Colour:  
B: black  
S: silver  
L: blue  
G: green  
R: red  
} special order  
Number of contact



**In-line cable connector**  
Mate with SA1010

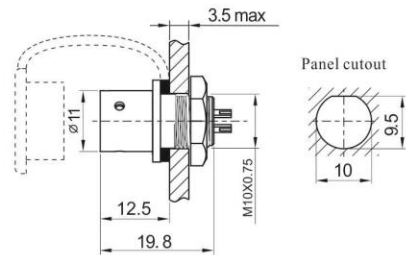
SA1011 / P — SA1011 / S —



**Rear-nut mount**  
Mate with SA1010

SA1012 / P — SA1012 / S —  
Number of contact

Colour:  
B: Black  
S: Silver  
L: Blue  
G: Green  
R: Red  
} special order



## Solder contact spec

Number of contact	2	3	4	5
Male contact face view				
Rated current (A)	5	5	3	3
Contact diameter (mm)	1	1	0.7	0.7
Rated voltage (AC.V)	180	180	125	125
Test voltage(AC.V) 1 min	1000	1000	1000	1000
Contact resistance (mΩ)	5	5	10	10
Wire size (mm <sup>2</sup> /AWG)	≤0.75/18	≤0.75/18	≤0.5/20	≤0.5/20

**SA12 Series IP67**

**Cable connector**  
Mate with SA1211, SA1212, SA1213




SA1210/P — SA1210/S  
Number of contact  
Cable outer diameter  
I: 4-6.5mm, II: 5-8mm

Colour:  
B: Black  
S: Silver  
L: Blue  
G: Green  
R: Red } special order

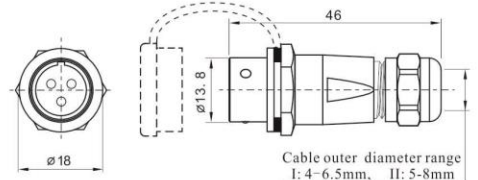


Technical drawings showing front view (ø18), side view (length 46, cable diameter range I: 4-6.5mm, II: 5-8mm).

**In-line cable connector**  
Mate with SA1210




SA1211/P — SA1211/S



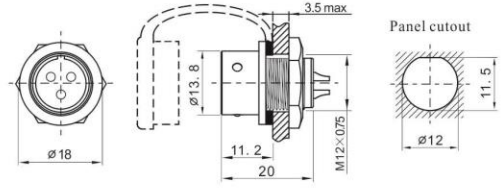
Technical drawings showing front view (ø18), side view (length 46, cable diameter range I: 4-6.5mm, II: 5-8mm).

**Rear-nut mount**  
Mate with SA1210




SA1212/P — SA1212/S  
Number of contact

Colour:  
B: Black  
S: Silver  
L: Blue  
G: Green  
R: Red } special order

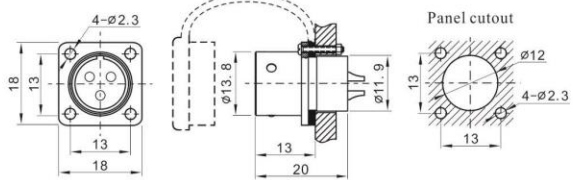


Technical drawings showing front view (ø18), side view (length 20, panel cutout ø12), and panel cutout (ø12, 11.5).

**Square flange**  
Mate with SA1210



SA1213/P — SA1213/S




Technical drawings showing front view (18x13, 4-ø2.3), side view (length 20, panel cutout ø12), and panel cutout (ø12, 13, 4-ø2.3).

**Solder contact spec**

Number of contact	2	3	4	5	6	7	9
Male contact face view							
Rated current (A)	13	13	5	5	5	5	3
Contact diameter (mm)	1.6	1.6	1	1	1	1	0.7
Rated voltage (AC.V)	250	250	200	180	125	125	125
Test voltage(AC.V) 1 min	1500	1500	1500	1000	1000	1000	1000
Contact resistance (mΩ)	2.5	2.5	5	5	5	5	10
Wire size (mm <sup>2</sup> / AWG)	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18	≤0.5/20

**SA16 Series IP67**

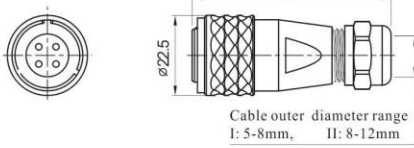
**Cable connector**  
Mate with SA1611, SA1612, SA1613



**SA1610/P** --- **SA1610/S**


Number of contact  
Cable outer diameter  
I: 5-8mm, II: 8-12mm

1: solder, 3: crimp  
**Colour:**  
B: Black  
S: Silver  
L: Blue  
G: Green  
R: Red } special order

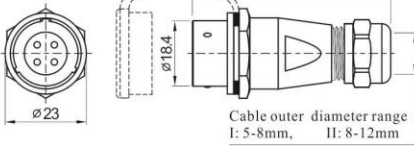


56  
ø22.5  
Cable outer diameter range  
I: 5-8mm, II: 8-12mm

**In-line cable connector**  
Mate with SA1610




**SA1611/P** --- **SA1611/S**



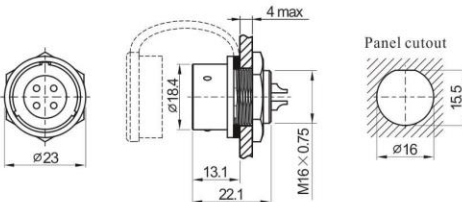
56  
ø18.4  
ø23  
Cable outer diameter range  
I: 5-8mm, II: 8-12mm

**Rear-nut mount**  
Mate with SA1610




**SA1612/P** --- **SA1612/S**

Number of contact  
1: solder, 3: crimp  
**Colour:**  
B: Black  
S: Silver  
L: Blue  
G: Green  
R: Red } special order

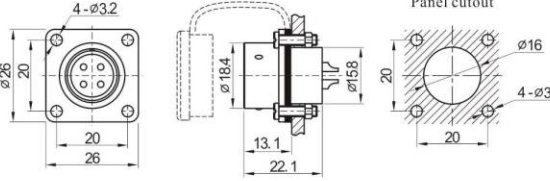


4 max  
ø18.4  
ø23  
13.1  
22.1  
M16 x 0.75  
Panel cutout  
ø16  
15.5

**Square flange**  
Mate with SA1610










**SA1613/P** --- **SA1613/S**



4-ø3.2  
ø26  
20  
20  
26  
ø18.4  
ø15.8  
13.1  
22.1  
Panel cutout  
ø16  
20  
20  
4-ø3.2

**Solder contact spec**

★ Crimp contact spec see page 89-92

Number of contact	2	3	4	5	7	9	10
Male contact face view							
Rated current (A)	10	10	5	5	5	5	5
Contact diameter (mm)	1.5	1.5	1	1	1	1	1
Rated voltage (AC.V)	500	500	500	500	400	400	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1200	1200	1200
Contact resistance (mΩ)	2.5	2.5	5	5	5	5	5
Wire size (mm <sup>2</sup> / AWG)	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18

SA20 Series IP67

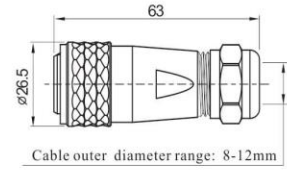
**SA  
20**



SA2010/P --- SA2010/S ---  
Number of contact

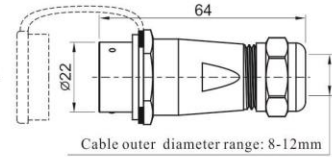
**Cable connector**  
Mate with SA2011, SA2012, SA2013

1: solder, 2: screw, 3: crimp  
**Colour:**  
B: Black  
S: Silver  
L: Blue  
G: Green  
R: Red } special order



SA2011/P --- SA2011/S ---

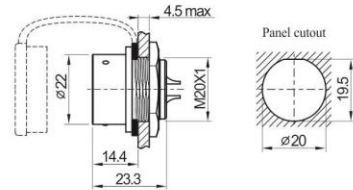
**In-line cable connector**  
Mate with SF2010



SA2012/P --- SA2012/S ---  
Number of contact

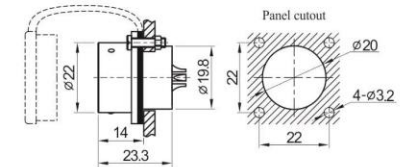
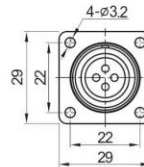
**Rear-nut mount**  
Mate with SA2010

1: solder, 2: screw, 3: crimp  
**Colour:**  
B: Black  
S: Silver  
L: Blue  
G: Green  
R: Red } special order



SA2013/P --- SA2013/S ---

**Square flange**  
Mate with SA2010



**Solder contact spec**


★ Crimp contact spec see page 89-92

Number of contact	2	3	4	5	6	7	9	12
Male contact face view								
Rated current (A)	25	25	25	10	25 5	10	5	5
Contact diameter (mm)	2.5	2.5	2.5	1.5	2.5 X4 1 X2	1.5	1	1
Rated voltage (AC.V)	500	500	500	500	500	500	500	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500	1500	1200
Contact resistance (mΩ)	1	1	1	2.5	1 5	2.5	5	5
Termination	Solder Screw	Solder Screw	Solder Screw	Solder	Solder	Solder	Solder	Solder
Wire size for solder (mm <sup>2</sup> /AWG)	≤4/11	≤4/11	≤4/11	≤2/14	≤4/11 ≤0.75/18	≤2/14	≤0.75/18	≤0.75/18
Wire size for screw termination (mm <sup>2</sup> /AWG)	≤1.5/15	≤1.5/15	≤1.5/15	/	/	/	/	/

**SA  
28**

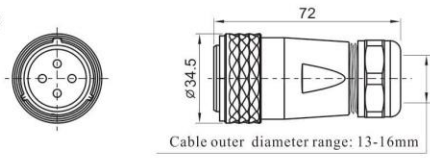
**SA28 Series IP67**

**Cable connector**  
Mate with SA2811, SA2812, SA2813




SA2810/P \_\_\_ SA2810/S \_\_\_  
Number of contact

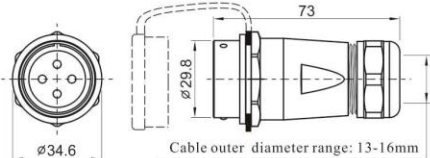
1: solder, 2: screw, 3: crimp  
**Colour:**  
 B: Black  
 S: Silver  
 L: Blue  
 G: Green  
 R: Red } special order



**In-line cable connector**  
Mate with SA2810



SA2811/P \_\_\_ SA2811/S \_\_\_



**Rear-nut mount**  
Mate with SA2810




SA2812/P \_\_\_ SA2812/S \_\_\_  
Number of contact

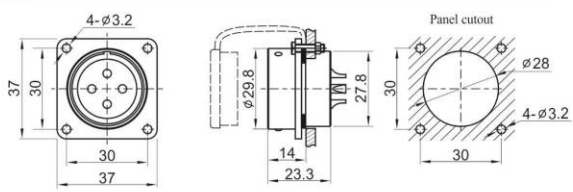
1: solder, 2: screw, 3: crimp  
**Colour:**  
 B: Black  
 S: Silver  
 L: Blue  
 G: Green  
 R: Red } special order



**Square flange**  
Mate with SA2810



SA2813/P \_\_\_ SA2813/S \_\_\_



**Solder contact spec**

★ Crimp contact spec see page 89-92

Number of contact	2	3	4	7	8	9	10	10B	12	16	17	20	24	26
Male contact face view														
Rated current (A)	50	50	25	25	25	25	25	10	10	10	10	5	5	5
Contact diameter(mm)	3.5	3.5	2.5	2.5	2.5	2.5	2.5	1.5	1.5	1.5	1.5	1	1	1
Rated voltage (AC.V)	500	500	500	500	500	500	500	500	500	500	500	400	400	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1200	1200	1200
Contact resistance (mΩ)	0.5	0.5	1	1	1	1	1	2.5	2.5	2.5	2.5	5	5	5
Termination	Solder Screw	Solder Screw	Solder Screw	Solder Screw	Solder Screw	Solder	Solder Screw	Solder	Solder	Solder	Solder	Solder	Solder	Solder
Wire size for solder (mm <sup>2</sup> / AWG)	≤10/7	≤10/7	≤4/11	≤4/11	≤4/11	≤4/11	≤4/11	≤2/14	≤2/14	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18
Wire size for screw termination (mm <sup>2</sup> / AWG)	≤6/10	≤6/10	≤1.5/15	≤1.5/15	≤1.5/15	/	≤1.5/15	/	/	/	/	/	/	/



**IP67**

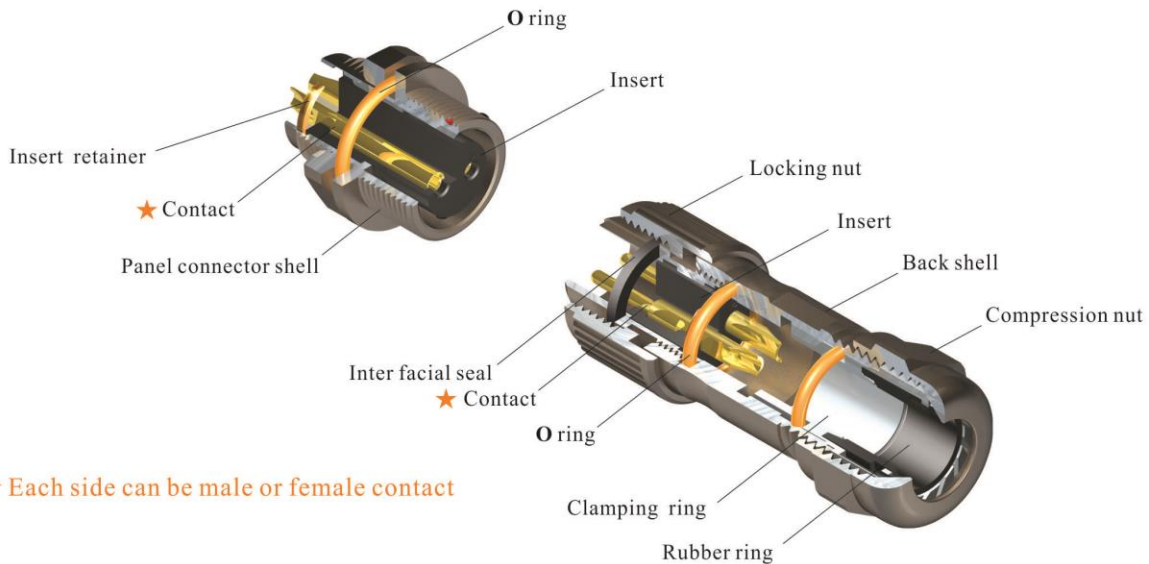
**SA Series**



28



- **ST12 Series IP67**
- **Threaded coupling**



★ Each side can be male or female contact

**Material and spec**

Coupling	Threaded
Shell material	Zinc alloy with black nickel plating
Insert material	PPS, max temperature 260 °C
Contact material	Brass with gold plating
Termination	Solder
IP rating	IP67
Mating cycle	500
Temperature range	-40°C ~+85°C
Insulation resistance (MΩ)	2000

## ST12 Series IP67

**ST  
12**

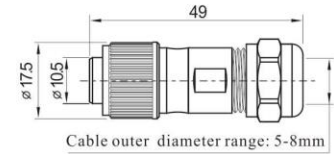


**Cable connector**  
Mate with ST1211, ST1212,  
ST1213, ST1214

ST1210 / P  
Male contact

ST1210 / S  
Female contact

Number of contact



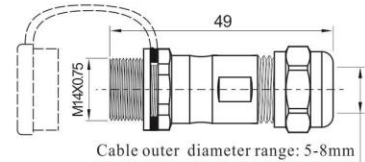
Cable outer diameter range: 5-8mm



ST1211 / P

ST1211 / S

**In-line cable connector**  
Mate with ST1210



Cable outer diameter range: 5-8mm

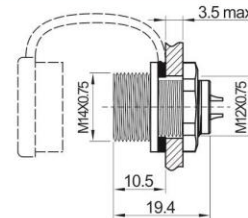


ST1212 / P

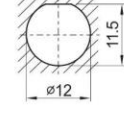
ST1212 / S

**Rear-nut mount**  
Mate with ST1210

Number of contact



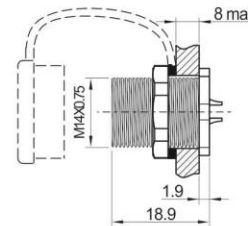
Panel cutout



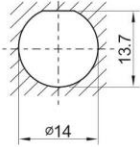
ST1213 / P

ST1213 / S

**Front-nut mount**  
Mate with ST1210



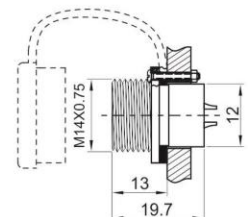
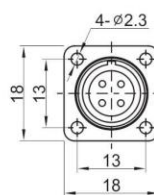
Panel cutout



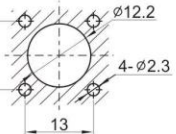
ST1214 / P

ST1214 / S

**Square flange**  
Mate with ST1210



Panel cutout



### Solder contact spec

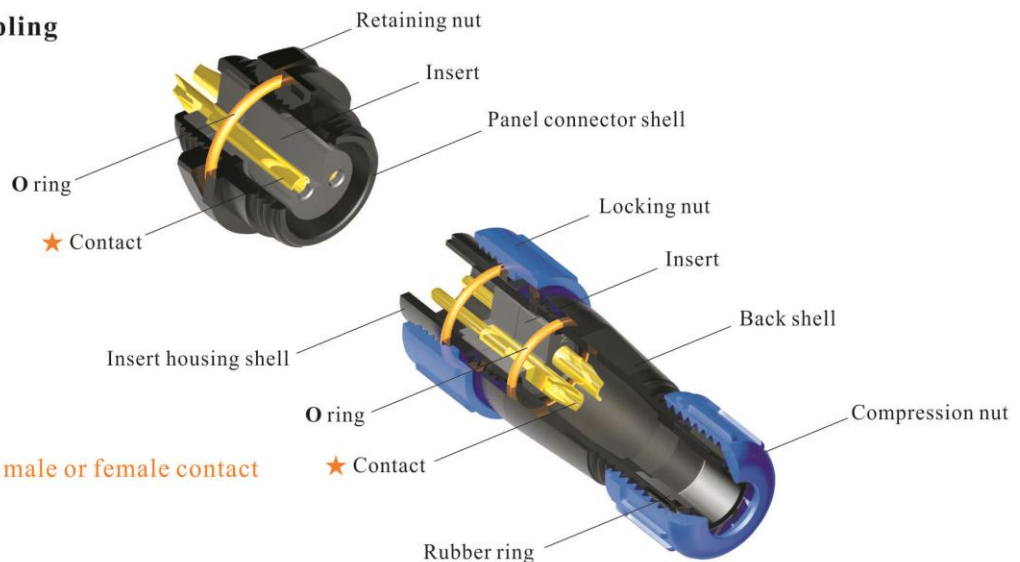
Number of contact	2	3	4	5	6	7	9
Male contact face view							
Rated current (A)	13	13	5	5	5	5	3
Contact diameter (mm)	1.6	1.6	1	1	1	1	0.7
Rated voltage (AC.V)	250	250	200	180	125	125	125
Test voltage (AC.V) 1 min	1500	1500	1500	1000	1000	1000	1000
Contact resistance (mΩ)	2.5	2.5	5	5	5	5	10
Wire size (mm <sup>2</sup> / AWG)	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18	≤0.5/20

**WEiPU®**  
**IP 68**

**SP**  
**Series**



- SP Series IP68
- Threaded coupling



★ Each side can be male or female contact

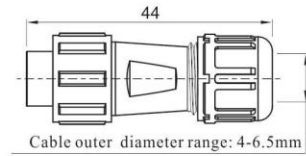
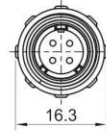
**Material and spec**

Coupling	Threaded
Shell material	PC: Panel connector shell, Insert housing shell Nylon66: Locking nut, Back shell, Compressing nut, Retaining nut Fire resistance: V-0
Insert material	PPS, max temperature 260 °C
Contact material	Brass with gold plating
Termination	Solder: SP11, SP13, SP17, SP21, SP29 Crimp: SP17, SP21, SP29 Screw: SP21, SP29 (∅2.5, ∅3, ∅3.5mm contact)
IP rating	IP68
Mating cycle	500
Temperature range	-40°C ~ +85°C
Insulation resistance (MΩ)	2000

**SP11 Series IP68**



**Cable connector**  
Mate with SP1111, SP1112



SP1110/P\_\_N

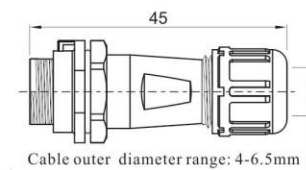
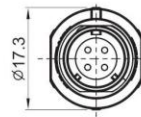
SP1110/S\_\_N

Male contact

Number of contact  
Female contact



**In-line cable connector**  
Mate with SP1110



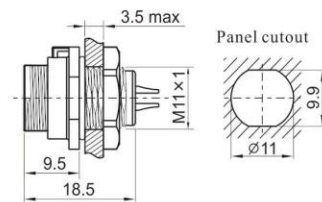
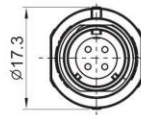
SP1111/P\_\_

SP1111/S\_\_

C: with cap  
N: without cap  
Number of contact



**Rear-nut mount**  
Mate with SP1110



SP1112/P\_\_

SP1112/S\_\_


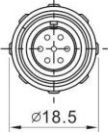
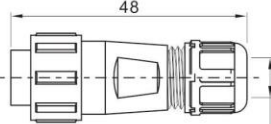
C: with cap  
N: without cap  
Number of contact

**Solder contact spec**

Number of contact	2	3	4	5
Male contact face view				
Rated current (A)	5	5	3	3
Contact diameter(mm)	1	1	0.7	0.7
Rated voltage (AC.V)	180	180	125	125
Test voltage(AC.V) 1 min	1000	1000	1000	1000
Contact resistance (mΩ)	5	5	10	10
Wire size (mm <sup>2</sup> /AWG)	≤0.75/18	≤0.75/18	≤0.5/20	≤0.5/20

**SP13 Series IP68**

**Cable connector**  
Mate with SP1311, SP1312


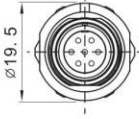
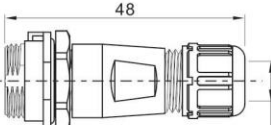




Male contact: **Sp1310 / P**  
Female contact: **SP1310 / S**

C: with cap  
N: without cap  
Cable outer diameter  
I: 4-6.5mm, II: 5-8mm  
Number of contact

Cable outer diameter range:  
I: 4-6.5mm, II: 5-8mm

**In-line cable connector**  
Mate with SP1310


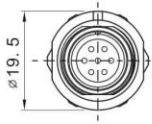
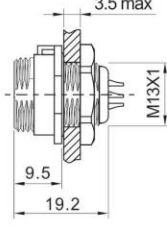
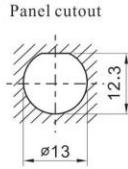
**SP1311 / P** — **SP1311 / S**

Number of contact

C: with cap  
N: without cap  
Cable outer diameter  
I: 4-6.5mm, II: 5-8mm

Cable outer diameter range:  
I: 4-6.5mm, II: 5-8mm








**Rear-nut mount**  
Mate with SP1310

**SP1312 / P** — **SP1312 / S**

C: with cap  
N: without cap  
Number of contact

**Solder contact spec**

Number of contact	2	3	4	5	6	7	9
Male contact face view							
Rated current (A)	13	13	5	5	5	5	3
Contact diameter(mm)	1.6	1.6	1	1	1	1	0.7
Rated voltage (AC.V)	250	250	200	180	125	125	125
Test voltage(AC.V) 1 min	1500	1500	1500	1000	1000	1000	1000
Contact resistance (mΩ)	2.5	2.5	5	5	5	5	10
Wire size (mm <sup>2</sup> /AWG)	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18	≤0.5/20

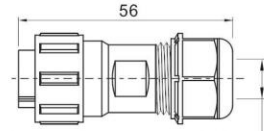
**SP17 Series IP68**



**Cable connector**  
Mate with SP1711, SP1712

SP1710 / P --- N    SP1710 / S --- N  
Male contact      Female contact

1: solder, 3: crimp  
Number of contact



Cable outer diameter range: 6-10mm

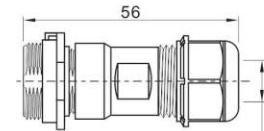
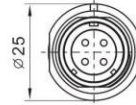


**In-line cable connector**  
Mate with SP1710

SP1711 / P ---    SP1711 / S ---

Number of contact

C: with cap  
N: without cap  
1: solder, 3: crimp



Cable outer diameter range: 6-10mm

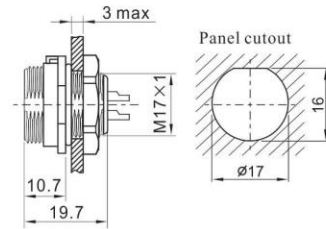
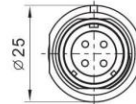


**Rear-nut mount**  
Mate with SP1710

SP1712 / P ---    SP1712 / S ---

Number of contact

C: with cap  
N: without cap  
1: solder, 3: crimp



**Solder contact spec**

★ Crimp contact spec see page 89-92

Number of contact	2	3	4	5	7	9	10
Male contact face view							
Rated current (A)	10	10	5	5	5	5	5
Contact diameter(mm)	1.5	1.5	1	1	1	1	1
Rated voltage (AC.V)	500	500	500	500	400	400	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1200	1200	1200
Contact resistance (mΩ)	2.5	2.5	5	5	5	5	5
Wire size (mm <sup>2</sup> /AWG)	≤ 2/14	≤ 2/14	≤ 0.75/18	≤ 0.75/18	≤ 0.75/18	≤ 0.75/18	≤ 0.75/18

## SP21 Series IP68

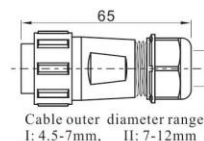
**SP  
21**



**Cable connector**  
Mate with SP2111, SP2112, SP2113

SP2110 / P --- SP2110 / S  
Number of contact

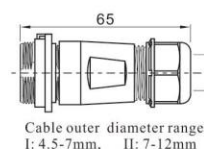
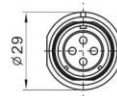
C: with cap  
N: without cap  
I: solder, 2: screw, 3: crimp  
Cable outer diameter: I: 4.5-7mm, II: 7-12mm



**In-line cable connector**  
Mate with SP2110

SP2111 / P --- SP2111 / S

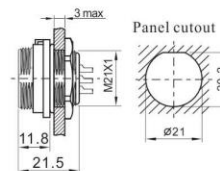
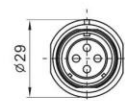
C: with cap  
N: without cap



**Rear-nut mount**  
Mate with SP2110

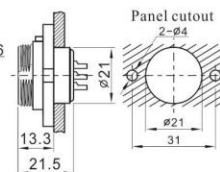
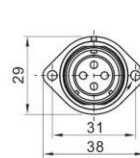
SP2112 / P --- SP2112 / S  
Number of contact

C: with cap  
N: without cap  
I: solder, 2: screw, 3: crimp



**2-hole flange**  
Mate with SP2110

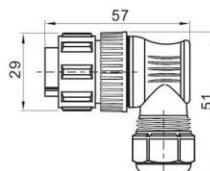
SP2113 / P --- SP2113 / S



**Angled cable connector**  
Mate with SP2111, SP2112, SP2113

SP2116 / P --- SP2116 / S  
Number of contact

C: with cap  
N: without cap  
I: solder, 2: screw, 3: crimp  
Cable outer diameter:  
I: 4.5-7mm, II: 7-12mm



### Solder contact spec

★ Crimp contact spec see page 89-92

Number of contact	2	3	4	5	5B	5C	7	9	12
Male contact face view									
Rated current (A)	30	30	30	30	30 5	15	15	5	5
Contact diameter(mm)	3	3	3	3	3X2 1X3	2	2	1	1
Rated voltage (AC.V)	500	500	500	500	500	500	500	500	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500	1500	1500	1200
Contact resistance (mΩ)	1	1	1	1	1 5	2.5	2.5	5	5
Termination	Solder Screw	Solder Screw	Solder Screw	Solder Screw	Solder	Solder	Solder	Solder	Solder
Wire size for solder (mm <sup>2</sup> / AWG)	≤4/11	≤4/11	≤4/11	≤4/11	≤4/11 ≤0.75/18	≤2/14	≤2/14	≤0.75/18	≤0.75/18
Wire size for screw termination (mm <sup>2</sup> / AWG)	≤1.5/15	≤1.5/15	≤1.5/15	≤1.5/15	/	/	/	/	/

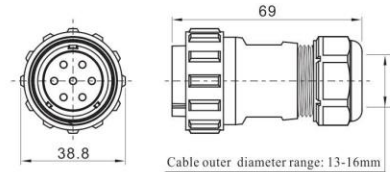
**SP29 Series IP68**



**Cable connector**  
Mate with SP2911,SP2912,SP2913

SP2910 / P \_ \_ \_ N SP2910 / S \_ \_ \_ N

1: solder, 2: screw, 3: crimp  
Number of contact

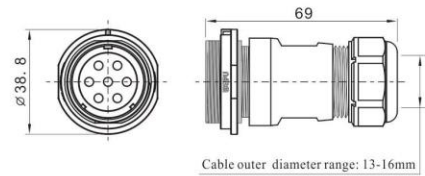


**In-line cable connector**  
Mate with SP2910

SP2911 / P \_ \_ \_ SP2911 / S \_ \_ \_

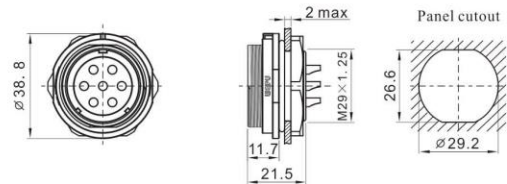
Number of contact

C: with cap  
N: without cap  
1: solder, 2: screw, 3: crimp



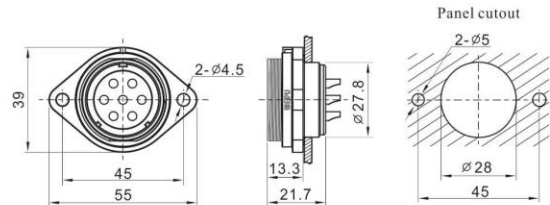
**Rear-nut mount**  
Mate with SP2910

SP2912 / P \_ \_ \_ SP2912 / S \_ \_ \_



**2-hole flange**  
Mate with SP2910

SP2913 / P \_ \_ \_ SP2913 / S \_ \_ \_



**Solder contact spec**

★ Crimp contact spec see page 89-92

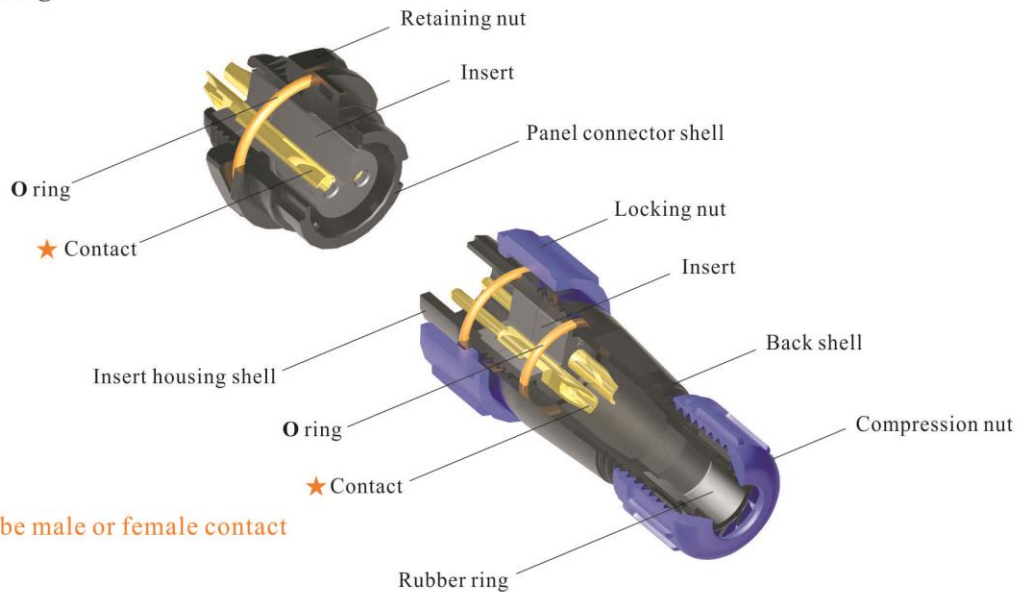
Number of contact	2	3	4	7	8	9	10	10B	12	16	17	20	24	26
Male contact face view														
Rated current (A)	50	50	25	25	25	25 5	25	10	10	10	10	5	5	5
Contact diameter(mm)	3.5	3.5	2.5	2.5	2.5	φ2.5X4 φ1X5	2.5	1.5	1.5	1.5	1.5	1	1	1
Rated voltage (AC.V)	500	500	500	500	500	500	500	500	500	500	500	400	400	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1200	1200	1200
Contact resistance (m.Ω)	0.5	0.5	1	1	1	1 5	1	2.5	2.5	2.5	2.5	5	5	5
Termination	Solder Screw	Solder Screw	Solder Screw	Solder Screw	Solder Screw	Solder	Solder Screw	Solder	Solder	Solder	Solder	Solder	Solder	Solder
Wire size for solder (mm <sup>2</sup> / AWG)	≤10/7	≤10/7	≤4/11	≤4/11	≤4/11	≤4/11 ≤0.75/18	≤4/11	≤2/14	≤2/14	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18
Wire size for screw termination (mm <sup>2</sup> / AWG)	≤6/10	≤6/10	≤1.5/15	≤1.5/15	≤1.5/15	/	≤1.5/15	/	/	/	/	/	/	/

**WEiPU®**  
**IP67**

**SY**  
Series



- SY Series IP67
- Bayonet coupling



★ Each side can be male or female contact

### Material and spec

Coupling	Bayonet
Shell material	PC: Panel connector shell, Insert housing shell Nylon66: Locking nut, Back shell, Compressing nut, Retaining nut Fire resistance: V-0
Insert material	PPS, max temperature 260 °C
Contact material	Brass with gold plating
Termination	Solder: SY13, SY17, SY21 Crimp: SY17, SY21 Screw: SY21 (Ø3mm contact)
IP rating	IP67
Mating cycle	500
Temperature range	-40°C ~ +85°C
Insulation resistance (MΩ)	2000

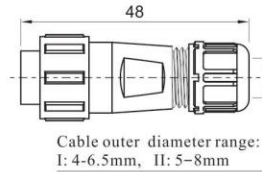
**SY13 Series IP67**



**Cable connector**  
Mate with SY1311, SY1312

SY1310 / P — N SY1310 / S — N  
Male contact — Female contact — N

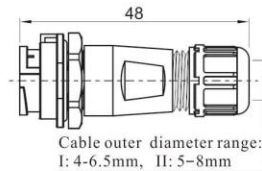
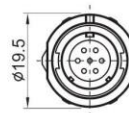
Cable outer diameter  
I: 4-6.5mm, II: 5-8mm  
Number of contact



**In-line cable connector**  
Mate with SY1310

SY1311 / P — SY1311 / S  
Number of contact

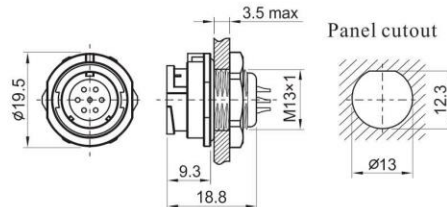
C: with cap  
N: without cap  
Cable outer diameter  
I: 4-6.5mm, II: 5-8mm



**Rear-nut mount**  
Mate with SY1310

SY1312 / P — SY1312 / S  
Number of contact

C: with cap  
N: without cap  
Number of contact



**Solder contact spec**

Number of contact	2	3	4	5	6	7	9
Male contact face view							
Rated current (A)	13	13	5	5	5	5	3
Contact diameter(mm)	1.6	1.6	1	1	1	1	0.7
Rated voltage (AC.V)	250	250	200	180	125	125	125
Test voltage(AC.V) 1 min	1500	1500	1500	1000	1000	1000	1000
Contact resistance (mΩ)	2.5	2.5	5	5	5	5	10
Wire size (mm <sup>2</sup> /AWG)	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18	≤0.5/20

**SY  
17**

**SY17 Series IP67**



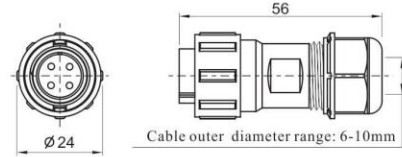
**Cable connector**  
Mate with SY1711,SY1712

SY1710 / P - - N    SY1710 / S - - N

Male contact

Female contact

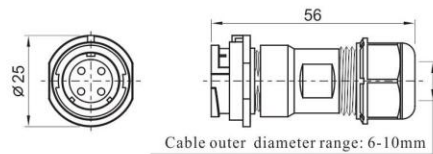
I: solder, 3: crimp  
Number of contact



**In-line cable connector**  
Mate with SY1710

SY1711 / P - -    SY1711 / S - -

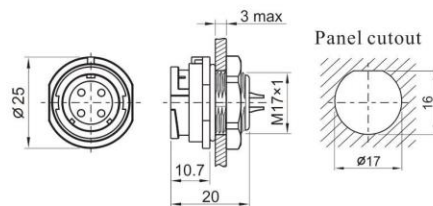
C: with cap  
N: without cap  
I: solder, 3: crimp  
Number of contact



**Rear-nut mount**  
Mate with SY1710

SY1712 / P -    SY1712 / S -

C: with cap  
N: without cap  
Number of contact




**Solder contact spec**

★ Crimp contact spec see page 89-92

Number of contact	2	3	4	5	7	9	10
Male contact face view							
Rated current (A)	10	10	5	5	5	5	5
Contact diameter(mm)	1.5	1.5	1	1	1	1	1
Rated voltage (AC.V)	500	500	500	500	400	400	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1200	1200	1200
Contact resistance (mΩ)	2.5	2.5	5	5	5	5	5
Wire size (mm <sup>2</sup> /AWG)	≤ 2/14	≤ 2/14	≤ 0.75/18	≤ 0.75/18	≤ 0.75/18	≤ 0.75/18	≤ 0.75/18

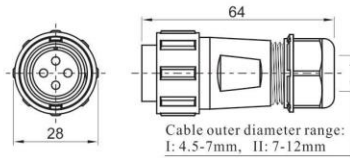
**SY21 Series IP67**

**Cable connector**  
Mate with SY2111, SY2112, SY2113




SY2110 / P \_ \_ \_ N SY2110 / S \_ \_ \_ N  
Number of contact

1: solder, 2: screw, 3: crimp  
Cable outer diameter: I: 4.5-7mm, II: 7-12mm



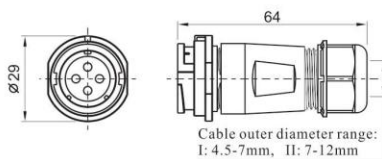
28 64  
Cable outer diameter range:  
I: 4.5-7mm, II: 7-12mm

**In-line cable connector**  
Mate with SY2110




SY2111 / P \_ \_ \_ SY2111 / S \_ \_ \_  
Number of contact

C: with cap  
N: without cap  
1: solder, 2: screw, 3: crimp  
Cable outer diameter: I: 4.5-7mm, II: 7-12mm



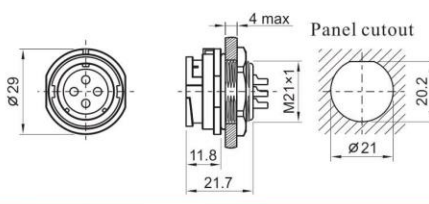
64  
Cable outer diameter range:  
I: 4.5-7mm, II: 7-12mm

**Rear-nut mount**  
Mate with SY2110



SY2112 / P \_ \_ \_ SY2112 / S \_ \_ \_  
Number of contact

C: with cap  
N: without cap  
1: solder, 2: screw, 3: crimp



4 max  
M2.1x1  
11.8  
21.7  
Panel cutout  
20.2  
21

**2-hole flange**  
Mate with SY2110




SY2113 / P \_ \_ \_ SY2113 / S \_ \_ \_



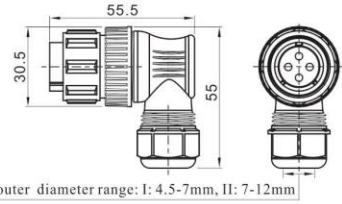
29  
31  
38  
3.6  
21  
13.3  
21.7  
Panel cutout  
2-∅4  
21  
31

**Angled cable connector**  
Mate with SY2111, SY2112, SY2113



SY2116 / P \_ \_ \_ N SY2116 / S \_ \_ \_ N  
Number of contact










1: solder, 2: screw, 3: crimp  
Cable outer diameter:  
I: 4.5-7mm, II: 7-12mm



55.5  
30.5  
55  
Cable outer diameter range: I: 4.5-7mm, II: 7-12mm

**Solder contact spec**

★ Crimp contact spec see page 89-92

Number of contact	2	3	4	5	5B	5C	7	9	12
Male contact face view									
Rated current (A)	30	30	30	30	30 5	15	15	5	5
Contact diameter(mm)	3	3	3	3	∅3X2 ∅1X3	2	2	1	1
Rated voltage (AC.V)	500	500	500	500	500	500	500	500	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500	1500	1500	1200
Contact resistance (mΩ)	1	1	1	1	1 5	2.5	2.5	5	5
Termination	Solder Screw	Solder Screw	Solder Screw	Solder Screw	Solder	Solder	Solder	Solder	Solder
Wire size for solder (mm <sup>2</sup> / AWG)	≤4/11	≤4/11	≤4/11	≤4/11	≤4/11 ≤0.75/18	≤2/14	≤2/14	≤0.75/18	≤0.75/18
Wire size for screw termination (mm <sup>2</sup> / AWG)	≤1.5/15	≤1.5/15	≤1.5/15	≤1.5/15	/	/	/	/	/



# IP68

# SP Series





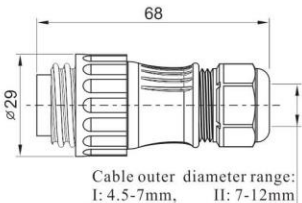
**WEIPU®**  
**IP67**


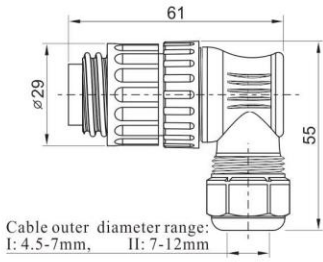


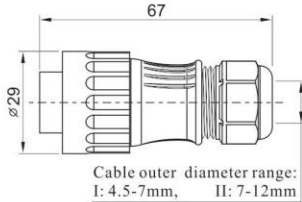


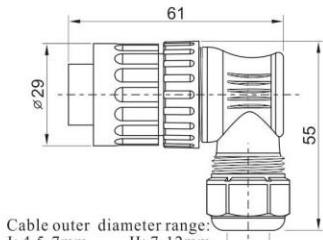


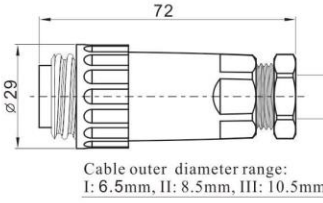

**WA  
22**


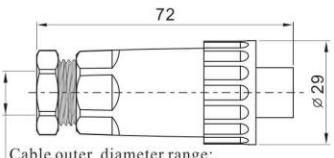


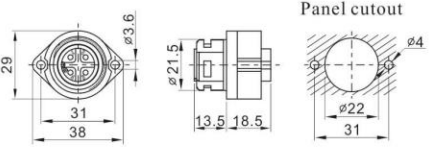

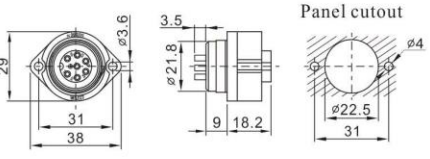

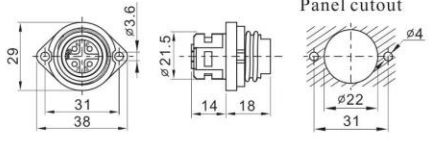

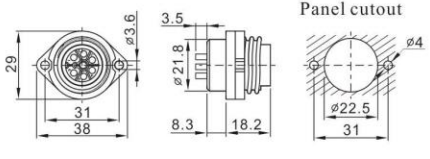

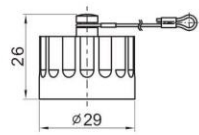

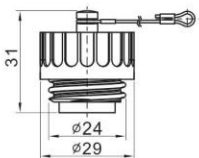


● **WA22 Series IP67**

Material and spec		
Number of contact	3+PE	6+PE
Contact diameter (mm)	∅2	∅1.5
Rated voltage (AC.V)	400	250
Rated current (A)	16	10
Wire size (mm <sup>2</sup> /AWG)	≤2. 5/14	≤0. 75/18
Termination	Screw	Solder
Test voltage(AC.V)1min	2000	
Insulation resistance (MΩ)	2000	
Shell material	Nylon66, fire resistance: V-0	
Contact material	Brass with gold plating	
Temperature range	-40℃~+85℃	
Mating cycle	500	

Part number	Description	Drawing
WA22J4TK2_ Cable outer diameter I: 4.5-7mm, II: 7-12mm	3+PE male cable connector with short back shell  Screw termination	
WA22J7TK1_	6+PE male cable connector with short back shell  Solder termination	

Part number	Description	Drawing
WA22J4TL2_ <small>Cable outer diameter I: 4.5-7mm, II: 7-12mm</small> 	3+PE male cable connector with angled back shell  Screw termination	 <p>61 55 ∅29</p> <p>Cable outer diameter range: I: 4.5-7mm, II: 7-12mm</p>
WA22J7TL1_ 	6+PE male cable connector with angled back shell  Solder termination	
WA22K4TK2_ 	3+PE female cable connector with short back shell  Screw termination	 <p>67 ∅29</p> <p>Cable outer diameter range: I: 4.5-7mm, II: 7-12mm</p>
WA22K7TK1_ 	6+PE female cable connector with short back shell  Solder termination	
WA22K4TL2_ 	3+PE female cable connector with angled back shell  Screw termination	 <p>61 55 ∅29</p> <p>Cable outer diameter range: I: 4.5-7mm, II: 7-12mm</p>
WA22K7TL1_ 	6+PE female cable connector with angled back shell  Solder termination	
WA22J4TE2_ 	3+PE male cable connector with long back shell  Screw termination	 <p>72 ∅29</p> <p>Cable outer diameter range: I: 6.5mm, II: 8.5mm, III: 10.5mm</p>
WA22J7TE1_ 	6+PE male cable connector with long back shell  Solder termination	

Part number	Description	Drawing
WA22K4ZE2_ Cable outer diameter I: 4.5-7mm, II: 7-12mm 	3+PE female cable connector with long back shell  Screw termination	 <p>72</p> <p>∅29</p> <p>Cable outer diameter range:            I: 6.5mm, II: 8.5mm, III: 10.5mm</p>
WA22K7ZE1_ 	6+PE female cable connector with long back shell  Solder termination	
WA22K4Z2 	3+PE female panel connector  Screw termination	 <p>Panel cutout</p>
WA22K7Z1 	6+PE female panel connector  Solder termination	 <p>Panel cutout</p>
WA22J4Z2 	3+PE male panel connector  Screw termination	 <p>Panel cutout</p>
WA22J7Z1 	6+PE male panel connector  Solder termination	 <p>Panel cutout</p>
WA22G1 	Cap 1	 <p>26</p> <p>∅29</p>
WA22G2 	Cap 2	 <p>31</p> <p>∅24</p> <p>∅29</p>



**WEiPU®**  
**IP65**

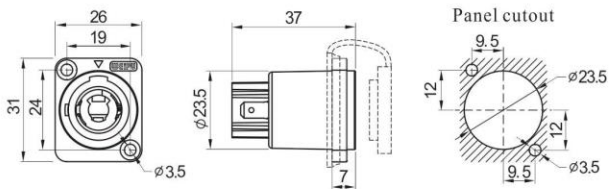
**WAC3**



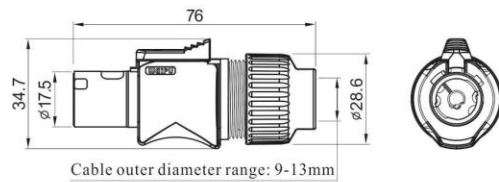
● **WAC3 Series IP65**



● **Receptacle**

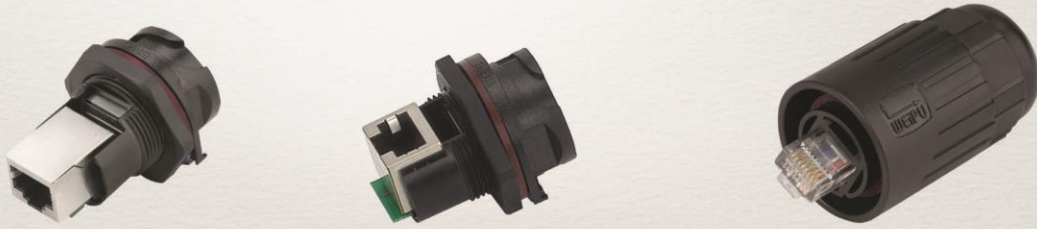


● **Plug**



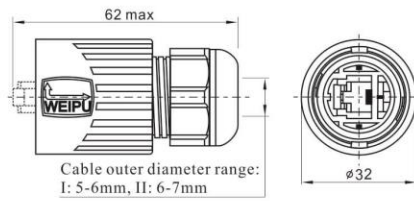
**Material and spec**

Coupling	Bayonet
Shell material	Plug: Nylon PA66    Socket: PC
Insert material	PPS, max temperature 260°C
Contact material	Brass with silver plating
Rated current (A)	20
Rated voltage (AC . V)	250
Test voltage (AC.V) 1 min	2500
Insulation resistance (M.Ω)	2000
Mating cycle	1000
Temperature range	-40°C ~ + 85°C
IP rating	IP65
Termination	Receptacle: 3/16" flat tab terminals    Plug: screw

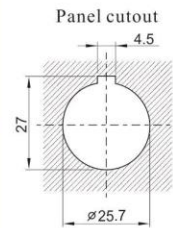
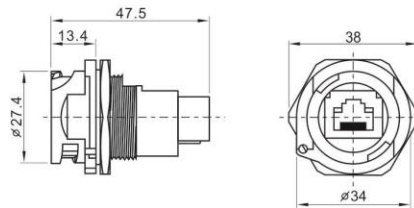


**RJ45F plug**  
P/N: RJ45F6

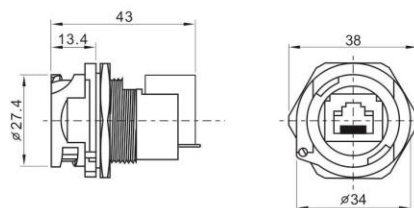
- Cable outer diameter range:
  - 5-6mm, II: 6-7mm
  - no need to mark



**RJ45F Receptacle**  
P/N: RJ45F71



**Angled Receptacle**  
P/N: RJ45F71RA

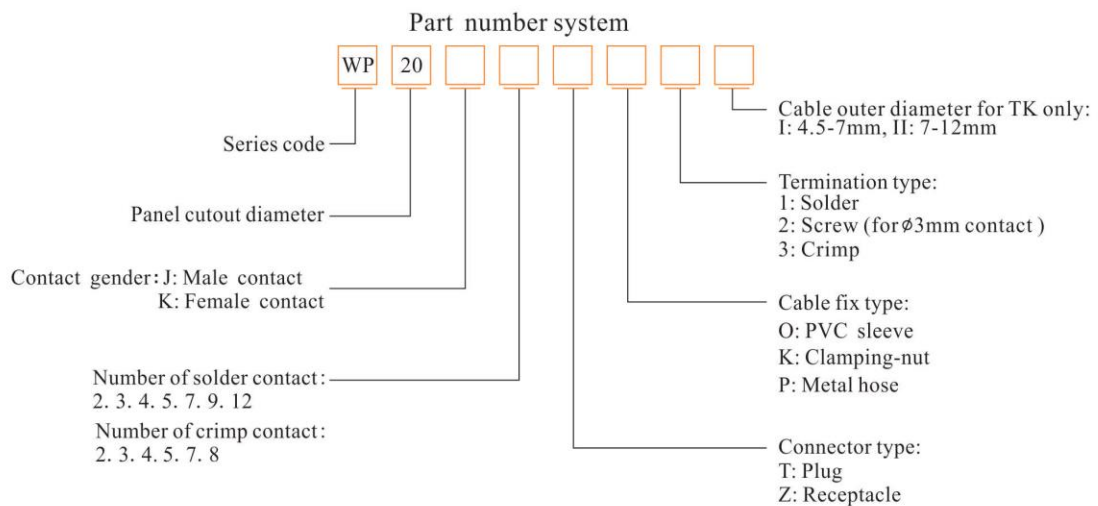


**Material and spec**

Coupling	Bayonet
Shell material	PC, fire resistance: V-0
IP rating	IP67
Temperature range	-40°C~+85°C



● WP Series



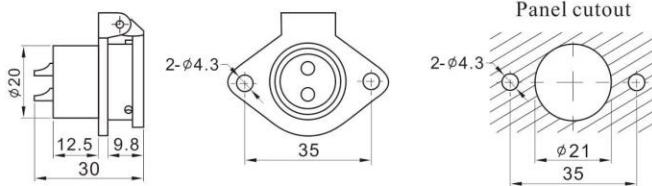
★ Each side can be male or female contact

**Material and spec**

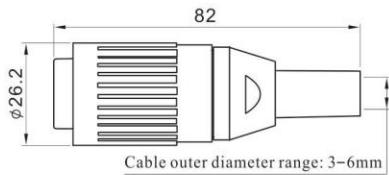
Coupling	Bayonet
Shell	Nylon 66 / Zinc alloy
Insert material	PPS, max temperature 260 °C
Contact material	Brass with gold plating
Termination	Solder ( $\phi 1$ , $\phi 2$ , $\phi 3$ mm contact) Screw ( $\phi 3$ mm contact) Crimp ( $\phi 1$ , $\phi 1.5$ , $\phi 2.5$ mm contact)
Mating cycle	500
Temperature range	-40°C ~ +85°C



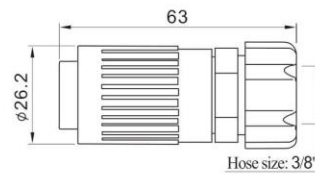
● Receptacle: Z IP44



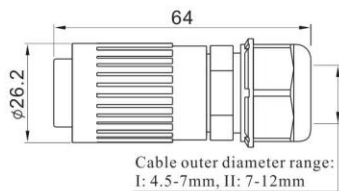
● PVC sleeve : TO



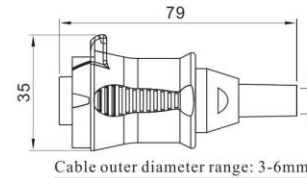
● Metal hose: TP



● Plastic clamping-nut: TK IP55



● Without bayonet: TO-G



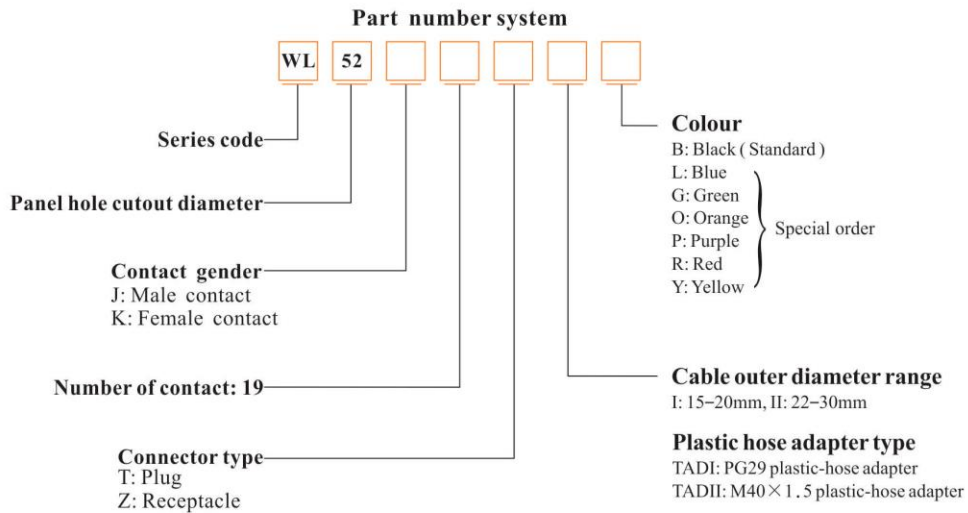
**Solder contact spec**

★ Crimp contact spec see page 89-92

Number of contact	2	3	4	5	5B	5C	7	9	12
Male contact face view									
Rated current (A)	30	30	30	30	30 5	15	15	5	5
Contact diameter(mm)	3	3	3	3	∅3X2 ∅1X3	2	2	1	1
Rated voltage (AC.V)	500	500	500	500	500	500	500	500	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500	1500	1500	1200
Contact resistance (mΩ)	1	1	1	1	1 5	2.5	2.5	5	5
Termination	Solder Screw	Solder Screw	Solder Screw	Solder Screw	Solder	Solder	Solder	Solder	Solder
Wire size for solder (mm <sup>2</sup> / AWG)	≤4/11	≤4/11	≤4/11	≤4/11	≤4/11 ≤0.75/18	≤2/14	≤2/14	≤0.75/18	≤0.75/18
Wire size for screw termination (mm <sup>2</sup> / AWG)	≤1.5/15	≤1.5/15	≤1.5/15	≤1.5/15	/	/	/	/	/



● **WL52 Series IP66/67**

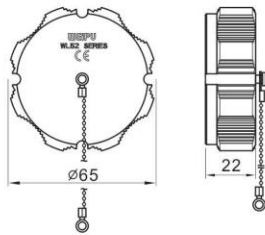


**Material and spec**

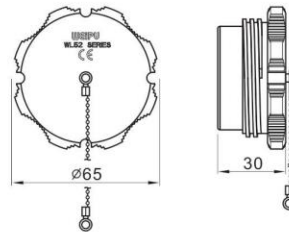
Coupling	Threaded
Shell material	Anodized aluminium
Insert material	PPS, max temperature 260°C
Contact material	Brass with gold plating
IP rating	IP66/67
Termination	Solder
Mating cycle	500
Temperature range	-40°C ~ +85°C
Insulation resistance (MΩ)	2000



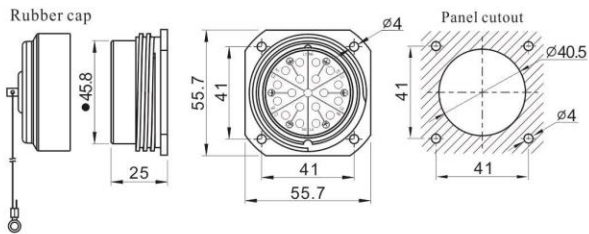
● Aluminium cap for female-contact connector:  
P/N: WL52-GZK IP67



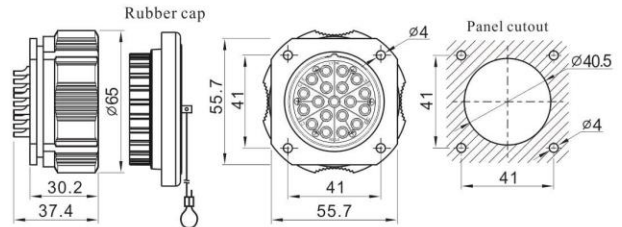
● Aluminium cap for male-contact connector:  
P/N: WL52-GZJ IP67



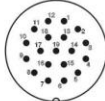
● Square flange female contact receptacle:  
P/N: WL52K19Z IP67



● Square flange male contact receptacle:  
P/N: WL52J19Z IP67

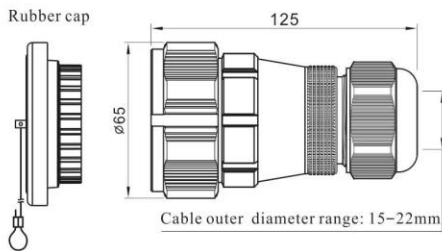


**Solder contact spec**

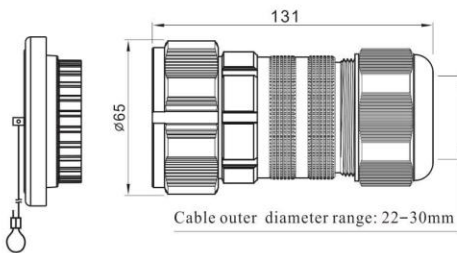
Number of contact	19
Male contact face view	
Rated current (A)	25
Contact diameter (mm)	3
Rated voltage	700 (DC.V), 500 (AC.V)
Test voltage(AC.V) 1 min	2500
Contact resistance (mΩ)	1
Wire size (mm <sup>2</sup> / AWG)	≤6/9



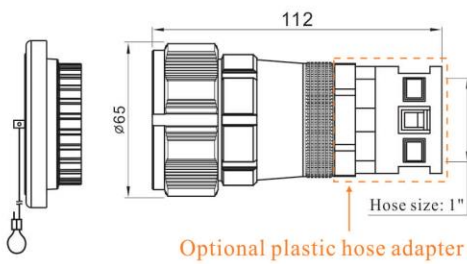
- Male-contact plug with clamping-nut IP67 P/N: WL52J19T



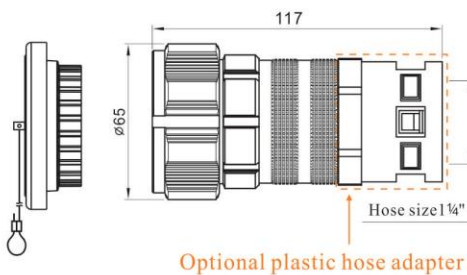
- Male-contact plug with clamping-nut 2 IP67 P/N: WL52J19TII



- Male-contact plug for PG29 Plastic hose adapter IP66 P/N: WL52J19TADI

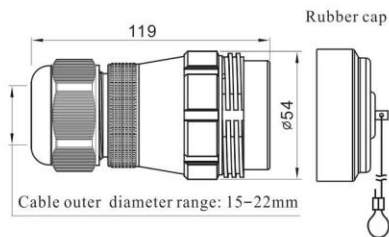


- Male-contact plug for M40 × 1.5 plastic hose adapter IP66 P/N: WL52J19TADII

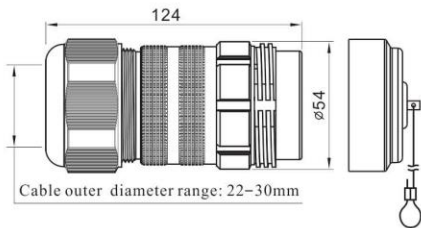




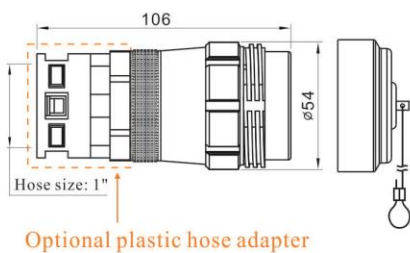
- Female-contact connector with clamping-nut IP67 P/N: WL52K19T



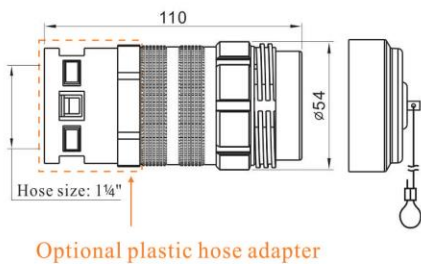
- Female-contact connector with clamping-nut 2 IP67 P/N: WL52K19TII



- Female-contact connector for PG29 Plastic hose adapter IP66 P/N: WL52K19TADI



- Female-contact connector for M40 ×1.5 Plastic hose adapter IP66 P/N: WL52K19TADII



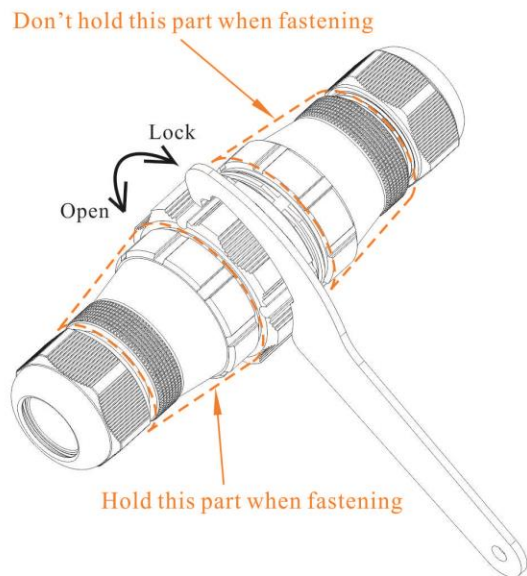
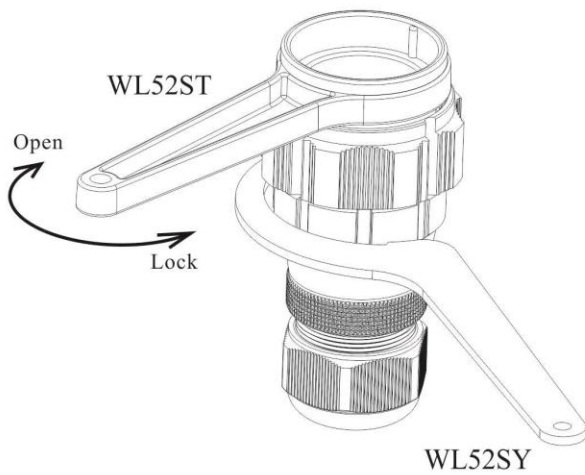
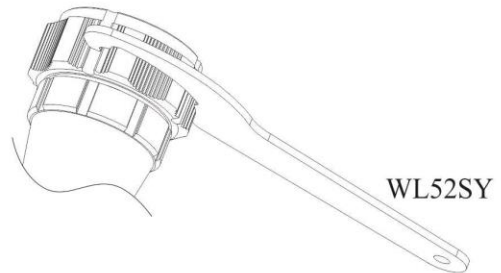
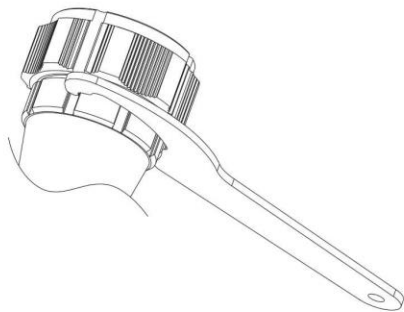
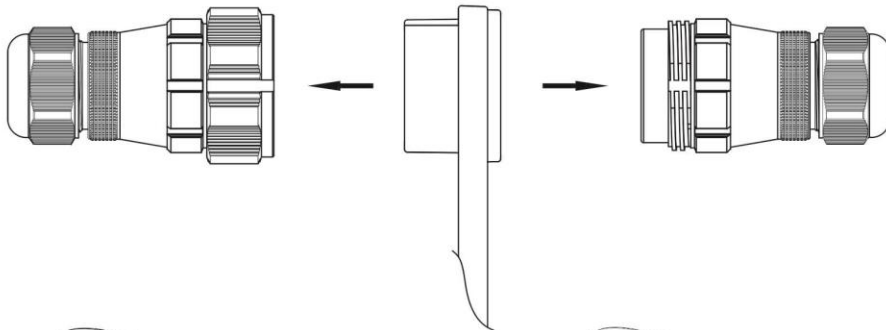


**Instruction**

Male-contact connector

WL52ST

Female-contact connector







# IP67

# WL52 Series



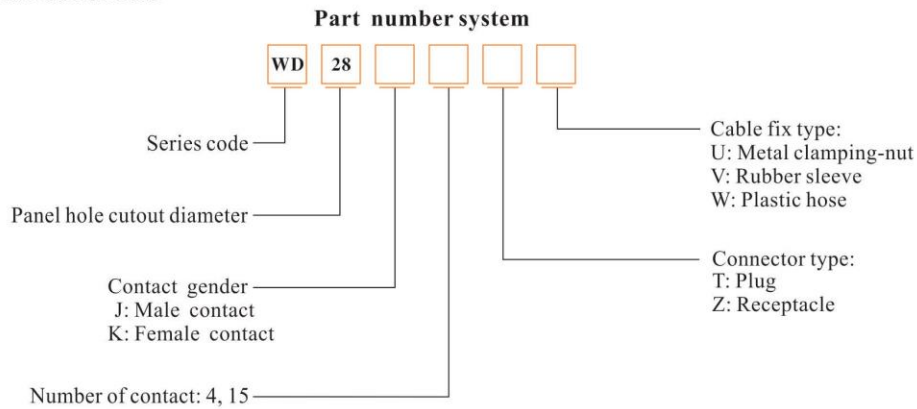
58



**WD  
28**



● **WD Series IP55/IP65**  
Servo motor connector



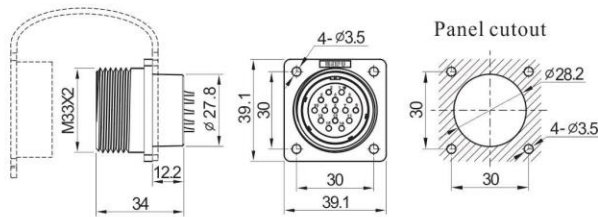
★ These connectors are designed for servo motors, socket is IP65 without mating or cap, there is a layer of rubber-seal-insert stops water goes back of socket.

**Material and spec**

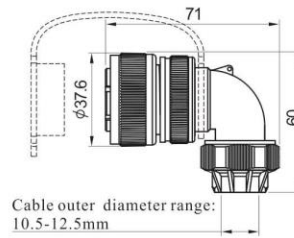
Coupling	Threaded
Shell material	Zinc alloy with black nickel plating
Insert material	Plug: PPS, max temperature 260°C Socket: Rubber and PPS, max temperature 260°C
Contact material	Brass with gold plating
Termination	Solder
Mating cycle	500
Temperature range	-40°C ~ +85°C
Insulation resistance (MΩ)	2000



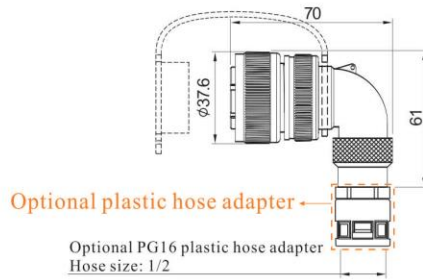
● Receptacle: Z IP65



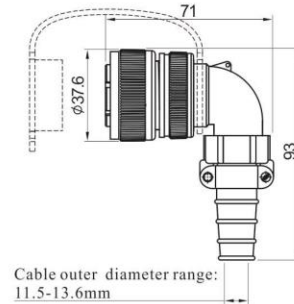
● Cable connector with clamping-nut: TU IP65



● Cable connector for plastic hose: TW IP55



● Cable connector with with rubber sleeve: TV IP65

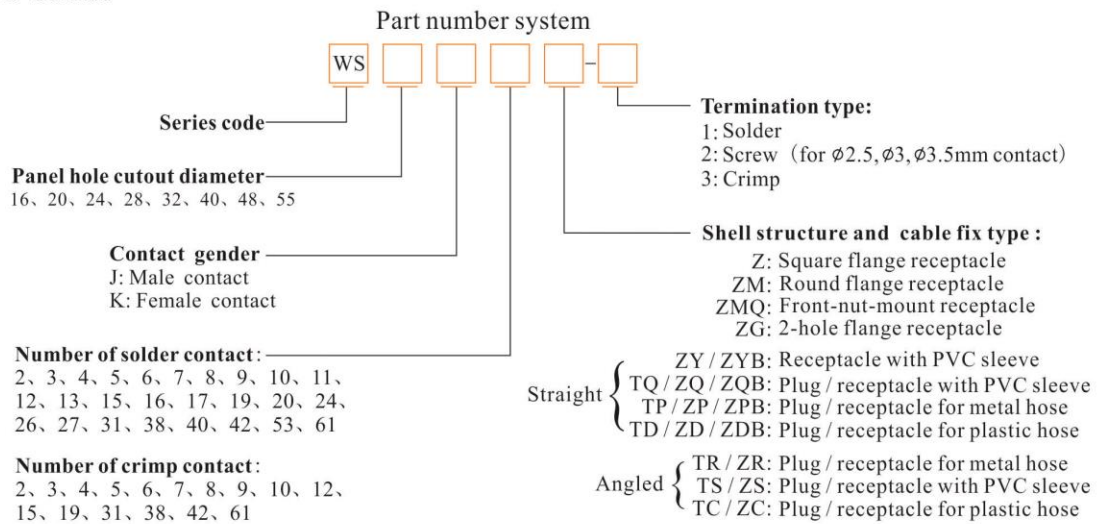


### Solder contact spec

Number of contact	4	15
Male contact face view		
Rated current (A)	50 25	10
Contact diameter (mm)	3.5 2.5	1.5
Rated voltage (AC.V)	500	500
Test voltage(AC.V) 1 min	1500	1500
Contact resistance (mΩ)	0.5 1	2.5
Wire size (mm <sup>2</sup> / AWG)	≤ 10 / 7 ≤ 4 / 11	≤ 2 / 14



● **WS Series**



● **Remarks :** The rated current decreases according to the number of contacts, more contacts, less rated current.

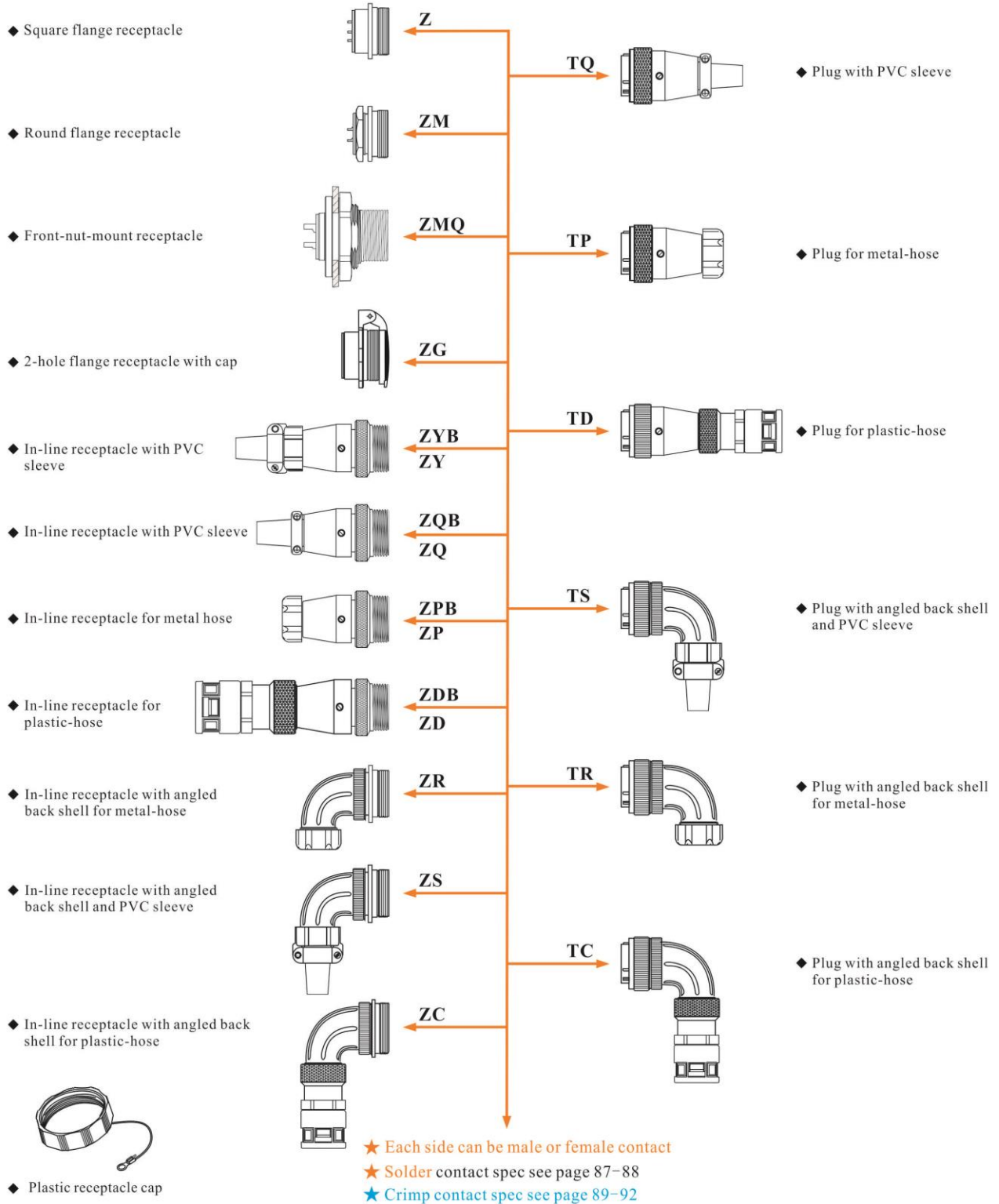
Number of contact	1-3	4-10	11-20	21-30	31-40	41-50	51-61
Rated current decrease rate (%)	0	10	20	30	40	50	60

- ★ Each side can be male or female contact
- ★ Solder contact spec see page 87-88
- ★ Crimp contact spec see page 89-92

**Material and spec**

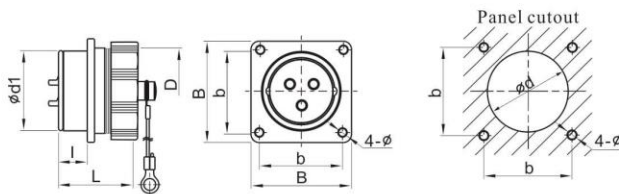
Coupling	Threaded
Shell material	Zinc alloy with chrome plating
Insert material	PPS, max temperature 260 °C
Contact material	Brass with gold plating
Termination	Solder: Ø1, 1.5, 2.5, 3.5, 5, 5mm contact Screw: Ø2.5, 3, 3.5mm contact Crimp: Ø1, 1.5, 2.5, 3.5mm contact
Mating cycle	500
Temperature range	-40°C ~ +85°C

### WS Series Mating diagram



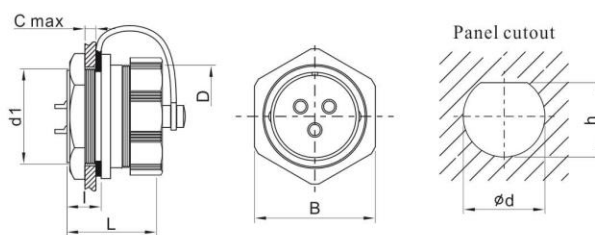


● Square flange receptacle: Z



Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
∅d1	15.8	19.8	23.8	27.8	31.8	39.8	47.8	54.8
D	M18X1	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
l	9.7	9.8	10	9.8	14.4	14.2	14.2	14
L	21.6	23	23	23	34	34	34	34
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
∅d	16.5	20.5	24.5	28.5	32.5	40.5	48.5	55.5
∅	3.2	3.2	3.2	3.2	3.5	4.5	4.5	4.5

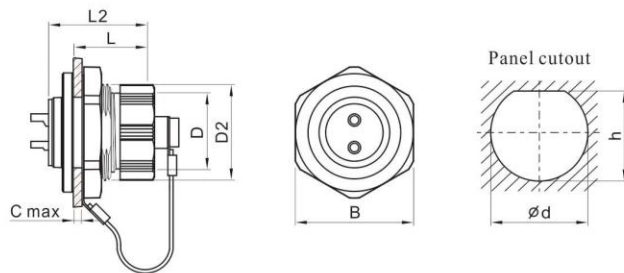
● Round flange receptacle: ZM



Dimension(mm)	WS16	WS20	WS24	WS28
d1	M16X1	M20X1	M24X1	M28X1
D	M18X1	M22X1	M26X1	M30X1
C	5	5	5	5
l	9.7	9.9	10	10.2
L	22	23	23	23
B	21.2	25.5	29.2	33.3
∅d	15.7	19.7	23.9	27.7
h	15.3	19.3	23.2	26.9

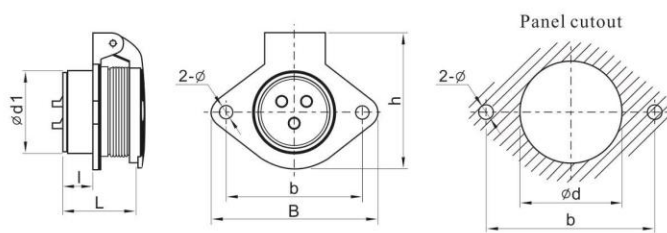


● Front-nut-mount receptacle: ZMQ IP67



Dimension(mm)	WS16	WS20	WS24	WS28
øD	M18X1	M22X1	M26X1	M30X1
D2	M22X1	M26X1	M30X1	M34X1
L	16	17	17	17
L2	21.6	23	23	23
C	5	5	5	5
B	26.8	30.8	34.8	38.8
ød	22	26	30	34
h	20.6	24.6	28.6	32.6

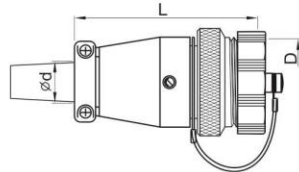
● 2-hole flange receptacle with cap: ZG



Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
ød1	15.8	19.8	23.8	27.8	31.8	39.8	47.8	54.8
l	10	10	10	10	15.4	14.7	14.3	14
L	22	23	23	23	34	34	34	34
b	30	35	40	45	55	65	80	85
B	38	44	50	55	67	77	92	98
h	32.5	36.5	40.5	45.5	52.5	63.5	74.5	80
ød	16.5	20.5	24.5	28.5	32.5	40.5	48.5	55.5
ø	3.5	4.5	4.5	4.5	5.5	5.5	5.5	6.5

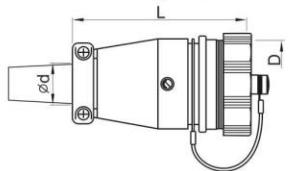


● In-line receptacle with PVC sleeve B: ZQB



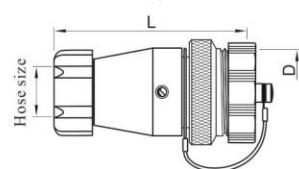
Dimension(mm)	WS16	WS20	WS24	WS28
D	M18X1	M22X1	M26X1	M30X1
L	44.3	48.3	53.5	56
ød max	10	11.6	12.4	15.7

● In-line receptacle with PVC sleeve: ZQ



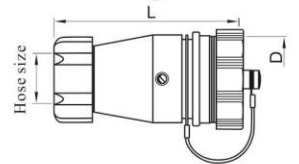
Dimension(mm)	WS32	WS40	WS48	WS55
D	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	70	77	85	97
ød max	19.5	24	24	30

● In-line receptacle for metal-hose B: ZPB



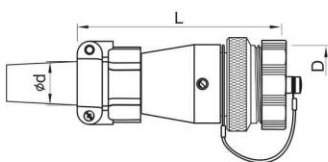
Dimension(mm)	WS16	WS20	WS24	WS28
D	M18X1	M22X1	M26X1	M30X1
L	49.5	58	62	65
Hose size	1/4"	3/8"	3/8"	1/2"

● In-line receptacle for metal-hose: ZP



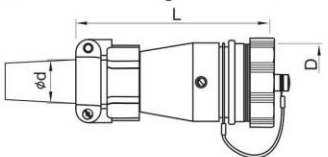
Dimension(mm)	WS32	WS40	WS48	WS55
D	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	75	99	103	106
Hose size	3/4"	1"	I: 1" II: 1 1/4"	1 1/4"

● In-line receptacle with cable clamping plates B: ZYB



Dimension(mm)	WS16	WS20	WS24	WS28
D	M18X1	M22X1	M26X1	M30X1
L	48.5	54.5	55.5	65.3
ød max	10	13	13	17

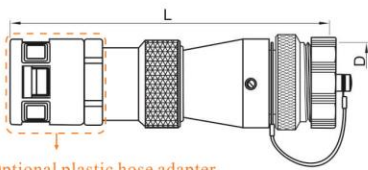
● In-line receptacle with cable clamping plates: ZY



Dimension(mm)	WS32	WS40	WS48	WS55
D	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	89.2	94.8	101.8	124.7
ød max	19	23	I: 23 II: 31	31



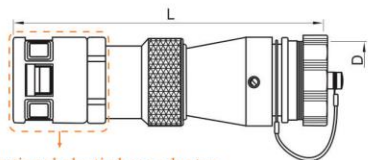
● In-line receptacle for plastic-hose: ZDB



Optional plastic hose adapter

Dimension (mm)	WS16	WS20	WS24	WS28
D	M18X1	M22X1	M26X1	M30X1
L	80	90	97	104
Adapter size	PG7	PG11	PG11	PG16
Hose size	1/4"	3/8"	3/8"	1/2"

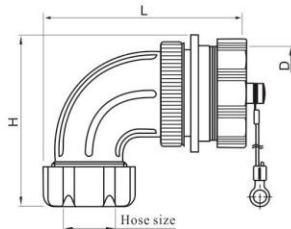
● In-line receptacle for plastic-hose: ZD



Optional plastic hose adapter

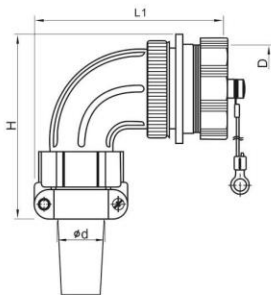
Dimension (mm)	WS32	WS40	WS48	WS55
D	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	126.7	134	141	160
Adapter size	PG21	PG29	I: PG29 II: PG36	PG36
Hose size	3/4"	1"	I: 1" II: 1 1/4"	1 1/4"

● In-line receptacle with angled back shell for metal-hose: ZR



Dimension (mm)		WS20	WS24	WS28	WS32	WS40	WS48	WS55
D	—	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	—	60	60	63	81	88	96	107
H	—	48	51	52	58	70	82	90
Hose size	—	3/8"	3/8"	1/2"	3/4"	1"	1"	1 1/4"

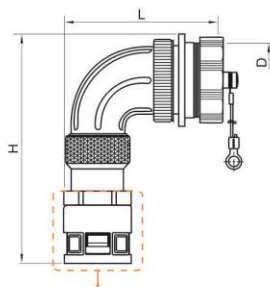
● In-line receptacle with angled back shell and PVC sleeve: ZS



Dimension (mm)		WS20	WS24	WS28	WS32	WS40	WS48	WS55
D	—	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	—	60.6	60.4	64.7	82	89.2	96	114.2
H	—	54.4	56.8	64	72	83.3	94.5	112.3
ød max	—	13	13	17	19	23	23	31



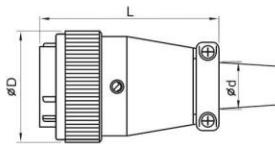
● In-line receptacle with angled back shell for plastic-hose: ZC



Optional plastic hose adapter

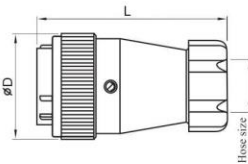
Dimension (mm)		WS20	WS24	WS28	WS32	WS40	WS48	WS55
D	—	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	—	60	60	65	82	90	95	110
H	—	88	88	98	110	120	135	140
Adapter size	—	PG11	PG11	PG16	PG21	PG29	PG29	PG36
Hose size	—	3/8"	3/8"	1/2"	3/4"	1"	1"	1 1/4"

● Plug with PVC sleeve: TQ



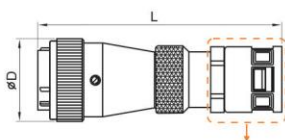
Dimension (mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
∅D	21.8	26.4	29.8	34	39.3	49.3	57.2	64.5
L	44	49.5	53.5	56	70	75.5	85.5	97
∅d max	10	11.6	12.4	16	19.5	24	24	30

● Plug for metal-hose: TP



Dimension (mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
∅D1	21.5	26.4	29.8	34	39.3	49.3	57.2	64.5
L	48	57	58	61	74	82	90	100
Hose size	1/4"	3/8"	3/8"	1/2"	3/4"	1"	I: 1" II: 1 1/4"	1 1/4"

● Plug for plastic-hose: TD

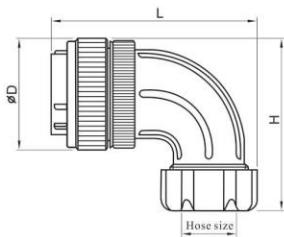


Optional plastic hose adapter

Dimension (mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
∅D	21.5	26.4	29.8	34	39.3	49.3	57.2	64.5
L	63	75	60	63	120	132	138	150
Adapter size	PG7	PG11	PG11	PG16	PG21	PG29	I: PG29 II: PG36	PG36
Hose size	1/4"	3/8"	3/8"	1/2"	3/4"	1"	I: 1" II: 1 1/4"	1 1/4"

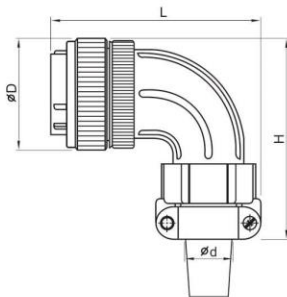


● Plug with angled back shell for metal-hose: TR



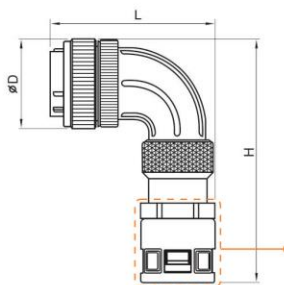
Dimension (mm)		WS20	WS24	WS28	WS32	WS40	WS48	WS55
$\varnothing D$	—	25.6	30	33.8	38.2	49.3	55.8	63
H	—	48	51	52	58	70	82	90
L	—	60	60	63	81	88	96	107
Hose size	—	3/8"	3/8"	1/2"	3/4"	1"	1"	1 1/4"

● Plug with angled back shell with PVC sleeve: TS



Dimension (mm)		WS20	WS24	WS28	WS32	WS40	WS48	WS55
$\varnothing D$	—	25.6	30	33.8	38.2	49.3	55.8	63
H	—	53	57	61	66	78	91	100
L	—	60	61	64	80	88	96	107
$\varnothing d$ max	—	11.6	12.4	15.7	19.5	24	24	30

● Plug with right angle back shell for plastic-hose: TC

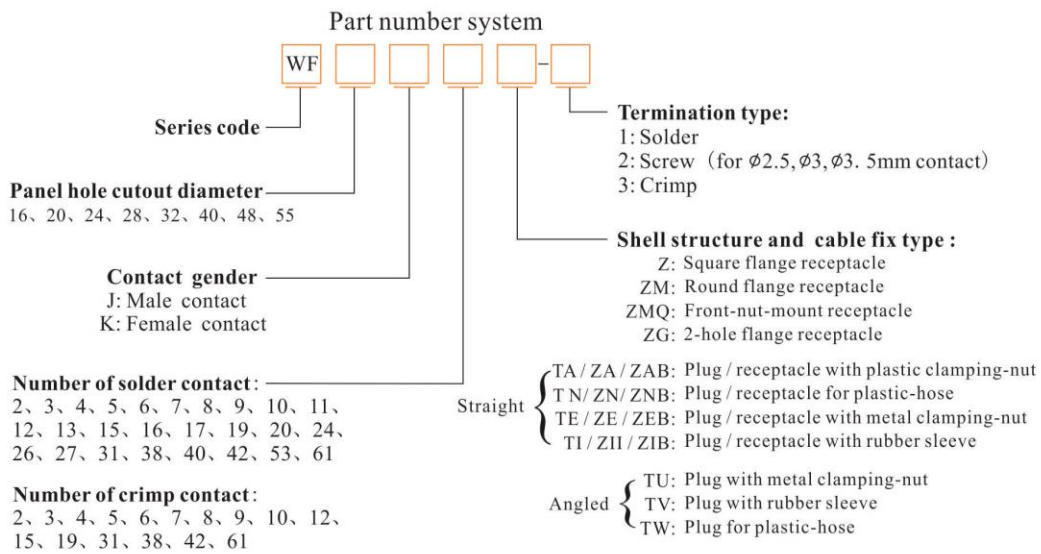


Dimension (mm)		WS20	WS24	WS28	WS32	WS40	WS48	WS55
$\varnothing D$	—	25.6	30	33.8	38.2	49.3	55.8	63
H	—	60	62	65	82	88	96	107
L	—	70	88	95	105	130	130	146
Adapter size	—	PG11	PG11	PG16	PG21	PG29	PG29	PG36
Hose size	—	3/8"	3/8"	1/2"	3/4"	1"	1"	1 1/4"

Optional plastic hose adapter



● **WF Series**



● **Remarks :** The rated current decreases according to the number of contacts, more contacts, less rated current.

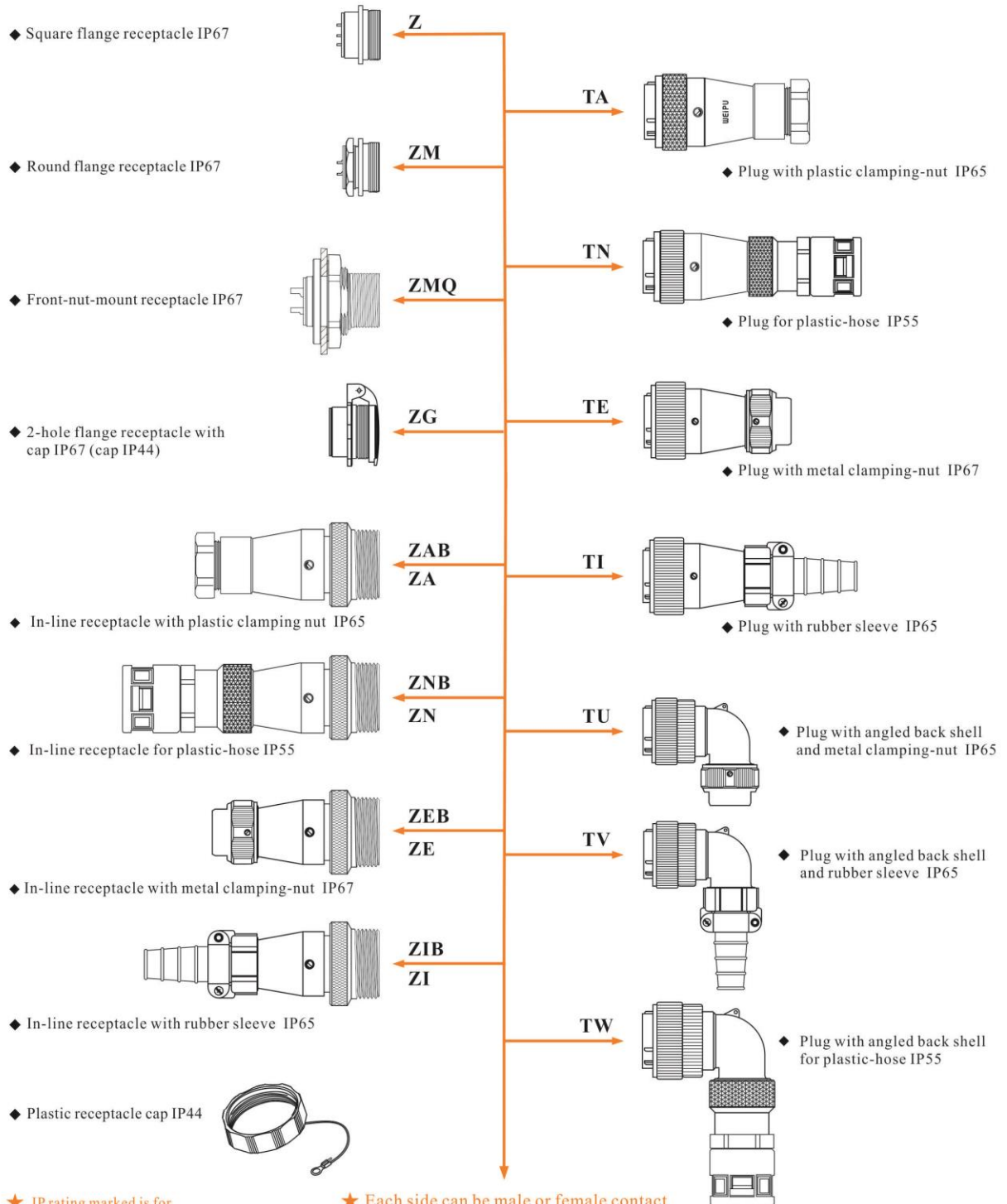
Number of contact	1-3	4-10	11-20	21-30	31-40	41-50	51-61
Rated current decrease rate (%)	0	10	20	30	40	50	60

- ★ Each side can be male or female contact
- ★ Solder contact spec see page 87-88
- ★ Crimp contact spec see page 89-92

**Material and spec**

Coupling	Threaded
Shell material	Zinc alloy with chrome plating
Insert material	PPS, max temperature 260 °C
Contact material	Brass with gold plating
Termination	Solder: $\phi 1, 1.5, 2.5, 3.5, 5, 5.5$ mm contact Screw: $\phi 2.5, 3, 3.5$ mm contact Crimp: $\phi 1, 1.5, 2.5, 3.5$ mm contact
Mating cycle	500
Temperature range	-40°C ~ +85°C

### WF Series Mating diagram



★ IP rating marked is for after mated or with cap.

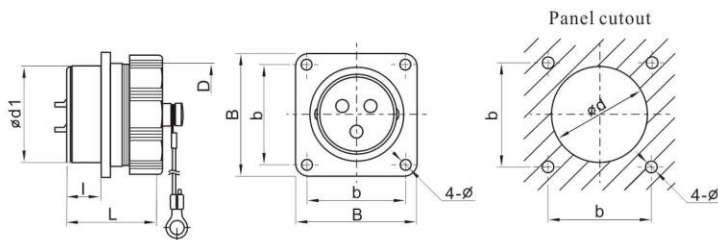
★ Each side can be male or female contact

★ Solder contact spec see page 87-88

★ Crimp contact spec see page 89-92

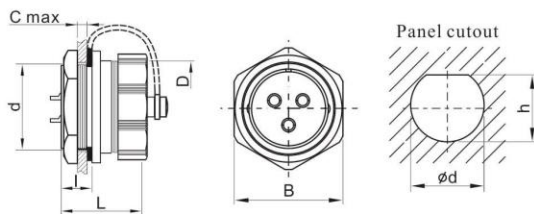


● Square flange receptacle: Z IP67



Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
ød1	15.8	19.8	23.8	27.8	31.8	39.8	47.8	54.8
D	M18X1	M22X1	M26X1	M30X1	M35X1	M44X1	M52X1.5	M59X1.5
l	9.7	9.8	10	9.8	14.4	14.2	14.2	14
L	21.6	23	23	23	34	34	34	34
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
ød	16.5	20.5	24.5	28.5	32.5	40.5	48.5	55.5
ø	3.2	3.2	3.2	3.2	3.5	4.5	4.5	4.5

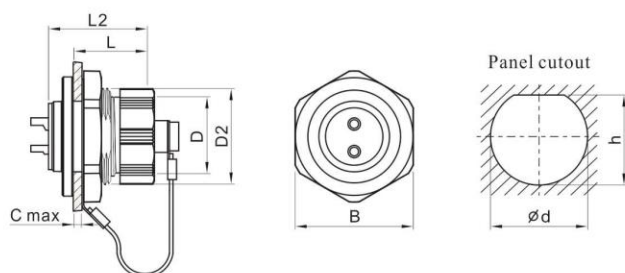
● Round flange receptacle: ZM IP67



Dimension(mm)	WF16	WF20	WF24	WF28
d	M16X1	M20X1	M24X1	M28X1
D	M18X1	M22X1	M26X1	M30X1
C	5	5	5	5
l	9.7	9.9	10	10.2
L	22	23	23	23
B	21.2	25.5	29.2	33.3
ød	15.7	19.7	23.9	27.7
h	15.3	19.3	23.2	26.9

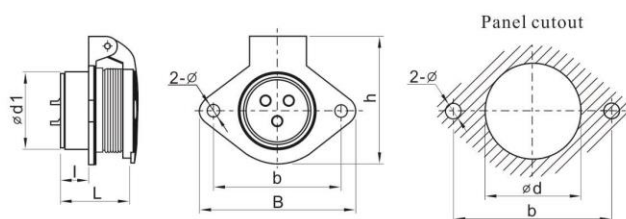


● Front-nut-mount panel receptacle: ZMQ IP67



Dimension(mm)	WF16	WF20	WF24	WF28
D	M18X1	M22X1	M26X1	M30X1
D2	M22X1	M26X1	M30X1	M34X1
L	16	17	17	17
L2	21.6	23	23	23
C	5	5	5	5
B	26.8	30.8	34.8	38.8
ød	22	26	30	34
h	20.6	24.6	28.6	32.6

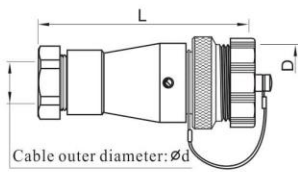
● 2-hole flange receptacle with cap: ZG IP67(cap IP44)



Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
ød1	15.8	19.8	23.8	27.8	31.8	39.8	47.8	54.8
l	10	10	10	10	15.4	14.7	14.3	14
L	22	23	23	23	34	34	34	34
b	30	35	40	45	55	65	80	85
B	38	44	50	55	67	77	92	98
h	32.5	36.5	40.5	45.5	52.5	63.5	74.5	80
ød	16.5	20.5	24.5	28.5	32.5	40.5	48.5	55.5
ø	3.5	4.5	4.5	4.5	5.5	5.5	5.5	6.5

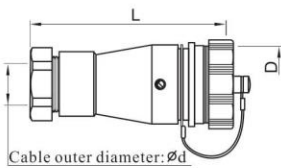


● In-line receptacle with plastic clamping-nut B: ZAB IP65



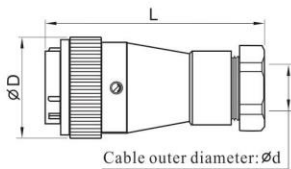
Dimension(mm)	WF16	WF20	WF24	WF28
D	M18X1	M22X1	M26X1	M30X1
L	53	65	68	74.5
ød	4.5-7	5-12	5-12	6.5-15.5

● In-line receptacle with plastic clamping-nut: ZA IP65



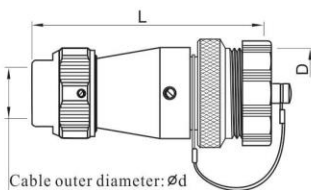
Dimension(mm)	WF32	WF40	WF48	WF55
D	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	92	109	116	110
ød	8.5-19.5	11.5-24.5	11.5-24.5	15-31

● Plug with plastic clamping-nut: TA IP65



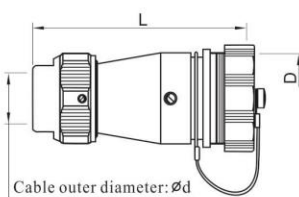
Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
øD	21	25.6	30	34.2	38.2	46.2	55.8	63
L	54	65	68	73	90	101	102	107
ød	4.5-7	5-12	5-12	6.5-15.5	8.5-19.5	11.5-24.5	11.5-24.5	15-31

● In-line receptacle with metal clamping-nut B: ZEB IP67



Dimension(mm)	WF16	WF20	WF24	WF28
D	M18X1	M22X1	M26X1	M30X1
L	55	63	66.5	70
ød	5-6.5	9-10.5	9-10.5	10.5-12.5

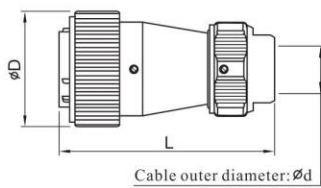
● In-line receptacle with metal clamping-nut: ZE IP67



Dimension(mm)	WF32	WF40	WF48	WF55
D	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	90.4	103.6	108	131.6
ød	15.5-17	18-20	I: 18-20 II: 24.5-26	24.5-26

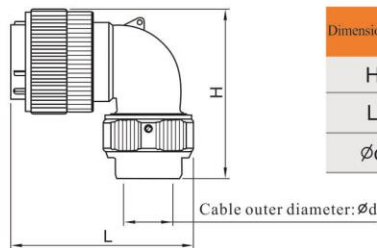


● Plug with metal clamping-nut: TE IP67



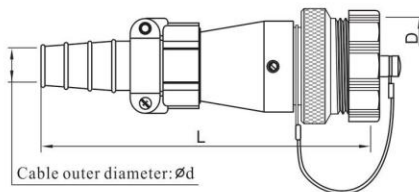
尺寸 Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
øD	21.8	26.4	29.8	34	39.3	49.3	57.2	64.5
L	52.6	61.3	67.3	67.4	88	102.9	107.7	131.6
ød	5-6.5	9-10.5	9-10.5	10.5-12.5	15.5-17	18-20	I: 18-20 II: 24.5-26	24.5-26

● Plug with angled back shell and metal clamping-nut: TU IP65



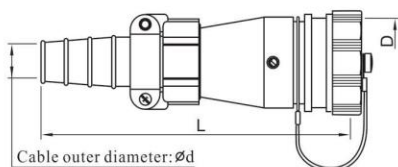
Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
H	43.2	50.3	54	56.7	74.6	80	98	105.2
L	47.5	55	58.3	72	82.5	91.5	98.5	109.2
ød	5-6.5	9-10.5	9-10.5	10.5-12.5	15.5-17	18-20	24.5-26	24.5-26

● In-line receptacle with cable clamping plates B: ZIB IP65



Dimension(mm)	WF16	WF20	WF24	WF28
D	M18X1	M22X1	M26X1	M30X1
L	73.5	90	93.5	104
ød	7-8	8-10.5	8-10.5	11.5-13.6

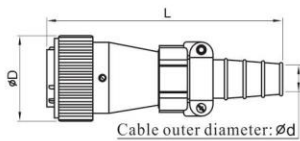
● In-line receptacle with cable clamping plates: ZI IP65



Dimension(mm)	WF32	WF40	WF48	WF55
D	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	118.6	130.2	137	210.5
ød	13-15.6	15.5-18.8	I:15.5-18.8 II:24-28	24-28

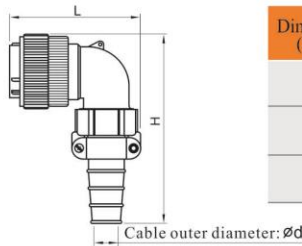


● Plug with rubber sleeve: TI IP65



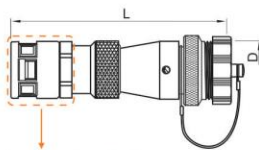
Dimension (mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
ØD	21.5	26.4	29.8	34	39.3	49.3	57.2	64.5
L	72.3	86.9	92.5	100.6	118.3	130.4	137.2	161.1
Ød	7-8	8-10.5	8-10.5	11.5-13.6	13-15.6	15.5-18.8	I:15.5-18.8 II:24-28	24-28

● Plug with angled back shell and rubber sleeve: TV IP65



Dimension (mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
H	60	80	80	93	107	118	127	140
L	45.5	53	56.3	70	80.5	89.5	98	107.2
Ød	7-8	8-10.5	8-10.5	11.5-13.6	13-15.6	15.5-18.8	24-28	24-28

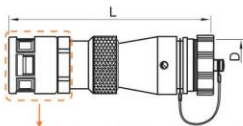
● In-line receptacle for plastic-hose: ZNB IP55



Optional plastic hose adapter

Dimension (mm)	WF16	WF20	WF24	WF28
D	M18X1	M22X1	M26X1	M30X1
L	80	90	97	104
Adapter size	PG7	PG11	PG11	PG16
Hose size	1/4"	3/8"	3/8"	1/2"

● In-line receptacle for plastic-hose: ZN IP55

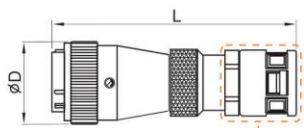


Optional plastic hose adapter

Dimension (mm)	WF32	WF40	WF48	WF55
D	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	126.7	134	141	160
Adapter size	PG21	PG29	I: PG29 II: PG36	PG36
Hose size	3/4"	1"	I: 1" II: 1 1/4"	1 1/4"



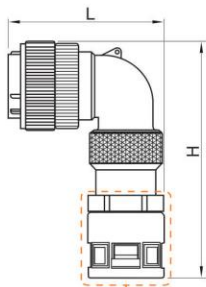
● Plug for plastic-hose: TN IP55



Optional plastic hose adapter

Dimension (mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
∅D	21.5	26.8	29.8	34	39.3	49.3	57.2	64.5
L	63	75	60	63	120	132	138	150
Adapter size	PG7	PG11	PG11	PG16	PG21	PG29	I: PG29 II: PG36	PG36
Hose size	1/4"	3/8"	3/8"	1/2"	3/4"	1"	I: 1" II: 1 1/4"	1 1/4"

● Plug with angled back shell for plastic-hose: TW IP55

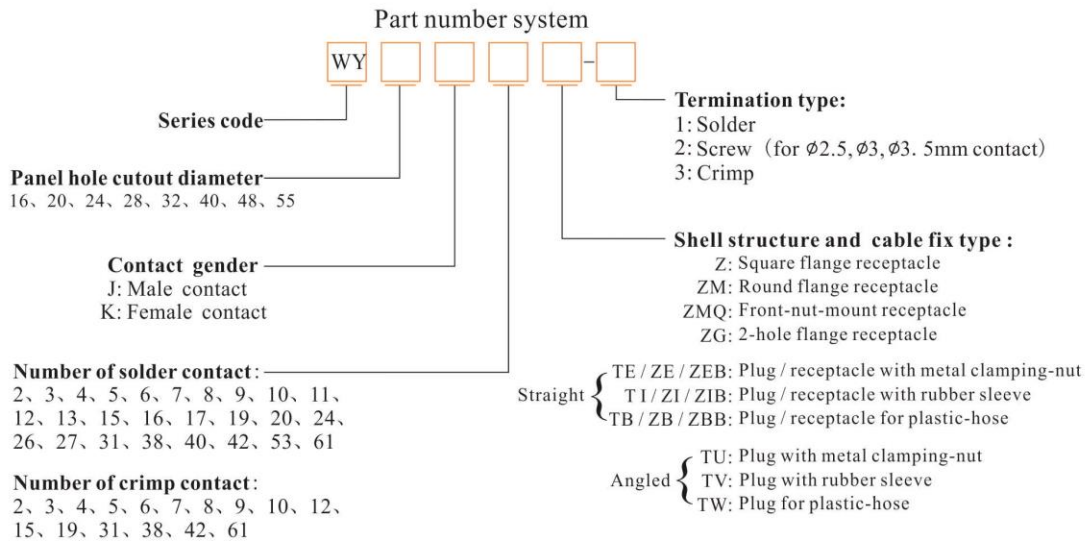


Optional plastic hose adapter

Dimension (mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
H	58	78	78	91	105	120	125	132
L	46.5	54	57.3	71	81.5	90.5	98	108
Adapter size	PG7	PG11	PG11	PG16	PG21	PG29	PG29	PG36
Hose size	1/4"	3/8"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/4"



● **WY Series**



● **Remarks :** The rated current decreases according to the number of contacts, more contacts, less rated current.

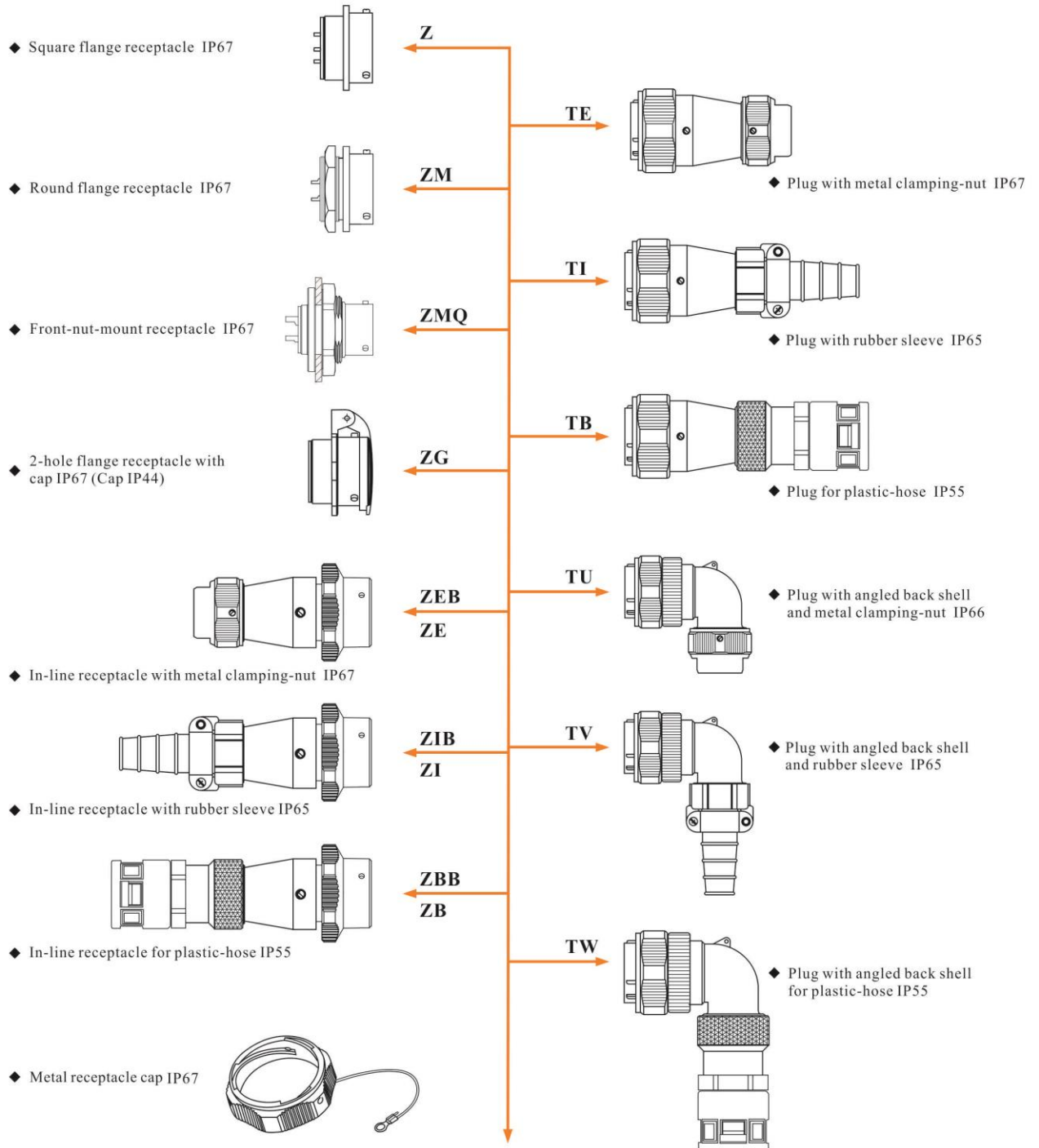
Number of contact	1-3	4-10	11-20	21-30	31-40	41-50	51-61
Rated current decrease rate (%)	0	10	20	30	40	50	60

- ★ Each side can be male or female contact
- ★ Solder contact spec see page 87-88
- ★ Crimp contact spec see page 89-92

**Material and spec**

Coupling	Bayonet
Shell material	Zinc alloy with chrome plating
Insert material	PPS, max temperature 260 °C
Contact material	Brass with gold plating
Termination	Solder: Ø1, 1.5, 2.5, 3.5, 5, 5mm contact Screw: Ø2.5, 3, 3.5mm contact Crimp: Ø1, 1.5, 2.5, 3.5mm contact
Mating cycle	500
Temperature range	-40°C ~ +85°C

WY Series Mating diagram



★ IP rating marked is for after mated or with cap.

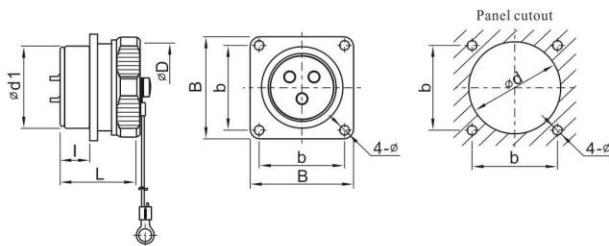
★ Each side can be male or female contact

★ Solder contact spec see page 87-88

★ Crimp contact spec see page 89-92

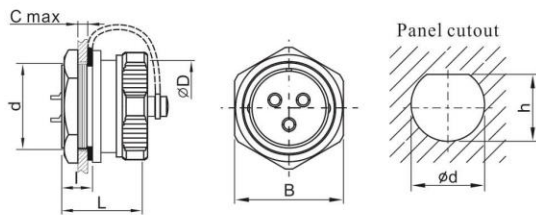


● Square flange panel receptacle: Z IP67



Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
d1	15.8	19.8	23.8	27.8	31.8	41.8	47.8	54.8
D	18	22	26	30	35	44	52	59
l	9.7	9.8	10	9.8	14.4	14.2	14.2	14
L	21.6	23	23	23	34	34	34	34
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
d	16.5	20.5	24.5	28.5	32.5	40.5	48.5	55.5
ø	3.2	3.2	3.2	3.2	3.5	4.5	4.5	4.5

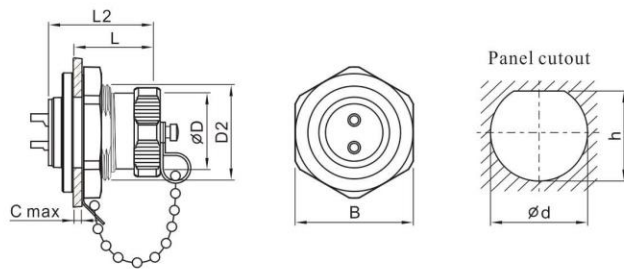
● Round flange panel receptacle: ZM IP67



Dimension(mm)	WY16	WY20	WY24	WY28
d	M16X1	M20X1	M24X1	M28X1
D	18	22	26	30
C	5	5	5	5
l	9.7	9.9	10	10.2
L	22	23	23	23
B	21.2	25.5	29.2	33.3
ød	15.7	19.7	23.9	27.7
h	15.3	19.3	23.2	26.9

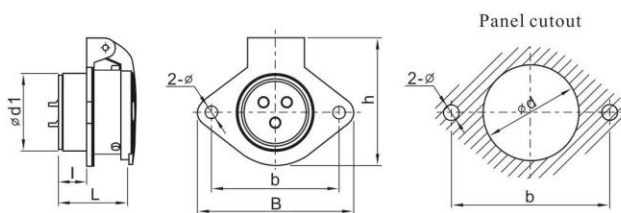


● Front-nut-mount receptacle: ZMQ IP67



Dimension(mm)	WY16	WY20	WY24	WY28
D	18	22	26	30
D2	M22X1	M26X1	M30X1	M34X1
L	16	17	17	17
L2	21.6	23	23	23
C	5	5	5	5
B	26.8	30.8	34.8	38.8
ød	22	26	30	34
h	20.6	24.6	28.6	32.6

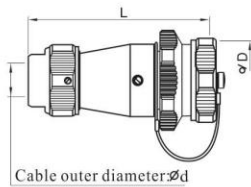
● 2-hole flange panel receptacle with cap: ZG IP67 (Cap IP44)



Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
d1	15.8	19.8	23.8	27.8	31.8	39.8	47.8	54.8
d	16.5	20.5	24.5	28.5	32.5	40.5	48.5	55.5
l	10	10	10	10	15.4	14.7	14.3	14
L	22	23	23	23	34	34	34	34
b	30	35	40	45	55	65	80	85
B	38	44	50	55	67	77	92	98
h	32.5	36.5	40.5	45.5	52.5	63.5	74.5	80
ø	3.5	4.5	4.5	4.5	5.5	5.5	5.5	6.5

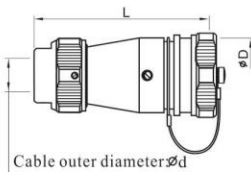


● In-line receptacle with metal clamping-nut B: ZEB IP67



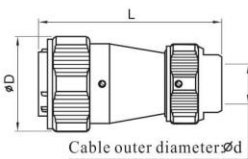
Dimension(mm)	WY16	WY20	WY24	WY28
D	18	22	26	30
L	55	63	67	70
Ød	5-6.5	9-10.5	9-10.5	10.5-12.5

● In-line receptacle with metal clamping-nut: ZE IP67



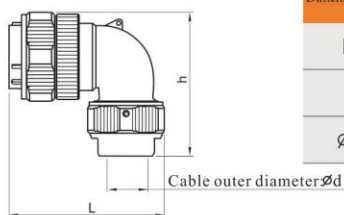
Dimension(mm)	WY32	WY40	WY48	WY55
D	35	44	52	59
L	91	104	108	132
Ød	15.5-17	18-20	I: 18-20 II: 24.5-26	24.5-26

● Plug with metal clamping-nut: TE IP67



Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
D	25	30	34	38.5	44.5	54	62	68.5
L	53	62	68	68	88	103	108	132
Ød	5-6.5	9-10.5	9-10.5	10.5-12.5	15.5-17	18-20	I: 18-20 II: 24.5-26	24.5-26

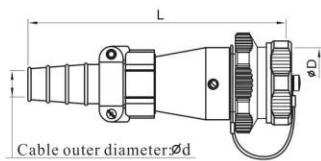
● Plug with angled back shell and metal clamping-nut: TU IP66



Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
h	43.2	53	54	56.7	74.6	80	98	105.2
L	48	58	59	62	83	92	99	110
Ød	5-6.5	9-10.5	9-10.5	10.5-12.5	15.5-17	18-20	24.5-26	24.5-26



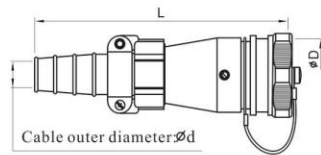
● In-line receptacle with cable clamping plates B: ZIB IP65



Dimension(mm)	WY16	WY20	WY24	WY28
D	18	22	26	30
L	73	86	92	101
Ød	7-8	9-10.5	9-10.5	11.5-13.6

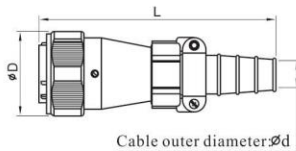
Cable outer diameter:Ød

● In-line receptacle with cable clamping plates: ZI IP65



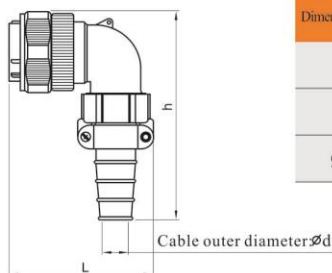
Dimension(mm)	WY32	WY40	WY48	WY55
D	35	44	52	59
L	119	131	137	211
Ød	13-15.6	15.5-18.8	I:15.5-18.8 II:24-28	24-28

● Plug with cable clamping plates: TI IP65



Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
D	25	30	34	38.5	44.5	54	62	68.5
L	73	87	93	101	119	131	138	162
Ød	7-8	9-10.5	9-10.5	11.5-13.6	13-15.6	15.5-18.8	I:15.5-18.8 II:24-28	24-28

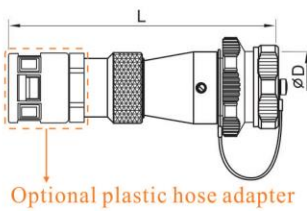
● Plug with angled back shell and cable clamping plates: TV IP65



Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
h	60	80	80	93	107	118	127	140
L	46	53	57	70	81	90	98	108
Ød	7-8	9-10.5	9-10.5	11.5-13.6	13-15.6	15.5-18.8	24-28	24-28

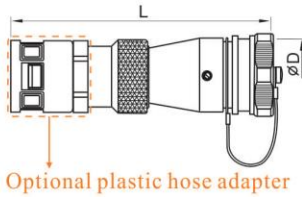


● In-line receptacle for plastic-hose: ZBB IP55



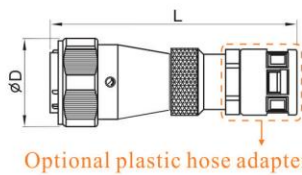
Dimension (mm)	WY16	WY20	WY24	WY28
D	18	22	26	30
L	80	93	96	107
Adapter size	PG7	PG11	PG11	PG16
Hose size	1/4"	3/8"	3/8"	1/2"

● In-line receptacle for plastic-hose: ZB IP55



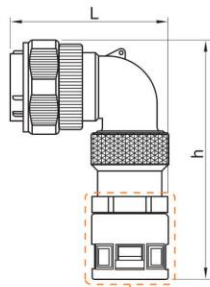
Dimension (mm)	WY32	WY40	WY48	WY55
D	35	44	52	59
L	123	134	139	155
Adapter size	PG21	PG29	I: PG29 II: PG36	PG36
Hose size	3/4"	1"	I: 1" II: 1 1/4"	1 1/4"

● Plug for plastic-hose: TB IP55



Dimension (mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
D	25	30	34	38.5	44.5	54	62	68.5
L	77	90	95	102	120	134	140	157
Adapter size	PG7	PG11	PG11	PG16	PG21	PG29	I: PG29 II: PG36	PG36
Hose size	1/4"	3/8"	3/8"	1/2"	3/4"	1"	I: 1" II: 1 1/4"	1 1/4"

● Plug with angled back shell for plastic-hose: TW IP55



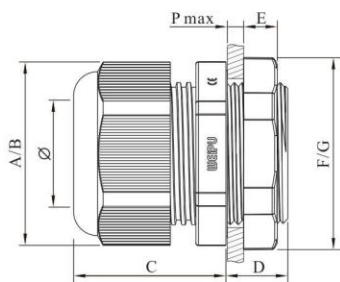
Dimension (mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
h	58	78	78	91	105	120	125	132
L	47	54	58	71	82	90	98	108
Adapter size	PG7	PG11	PG11	PG16	PG21	PG29	PG29	PG36
Hose size	1/4"	3/8"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/4"

Optional plastic hose adapter

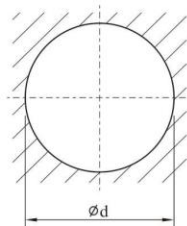




● Cable gland



Panel cutout



Material Nylon  
 Fire resistance V-0  
 Seal NBR  
 IP rating IP68  
 Temperature -40°C +80°C  
 Color grey(standard)  
 black(special order)

AG PG	A Diagonal	B Parallel	C Max	D	E	F Diagonal	G Parallel	P max	Ø Cable outer diameter	Ø d Panel cutout	Part number Grey	Part number Black
7	16.5	15.5	19.2	8	5	21	19	3.0	3-6.5	13	PA807G	PA807B
9	21	19.5	21.6	8	5	24	22	3.0	4-8	15.7	PA809G	PA809B
11	24.7	22.7	24.7	8	5	27	24.6	2.5	5-10	19	PA811G	PA811B
13.5	26.5	24	26.6	9	6	30	26.9	3.0	6-12	20.5	PA813G	PA813B
16	30	27.3	28.8	9.8	6.5	33	30.2	3.0	10-14	22.5	PA816G	PA816B
21	36.5	32	28.8	12.1	6.7	38.4	35.8	5.0	13-18	28	PA821G	PA821B
29	47.3	33	31.3	11	7.3	50.5	46.2	3.0	18-25	37.2	PA829G	PA829B
36	59.2	53.2	50	12.8	7.7	65	59	5.0	22-32	47.8	PA836G	PA836B

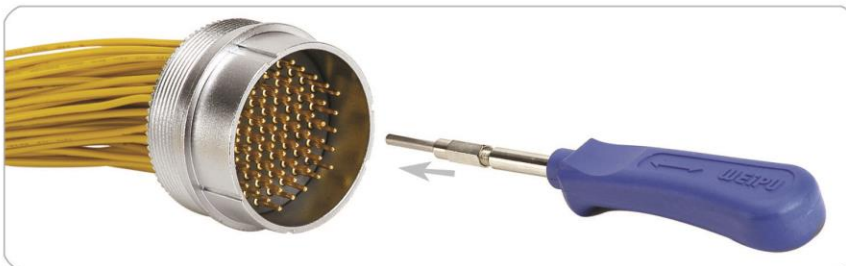
# Crimp contact



Crimp



Insert



Remove

## Solder contact spec

WS16, WF16, WY16	2	3	4	5	7	9	10
Male contact face view							
Rated current (A)	10	10	5	5	5	5	5
Contact diameter (mm)	1.5	1.5	1	1	1	1	1
Rated voltage (AC.V)	500	500	500	500	400	400	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1200	1200	1200
Contact resistance (mΩ)	2.5	2.5	5	5	5	5	5
Insulation resistance (MΩ)	2000	2000	2000	2000	2000	2000	2000
Wire size (mm <sup>2</sup> / AWG)	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18

WS20, WF20, WY20	2	3	4	5	6	6B	7	9	12
Male contact face view									
Rated current (A)	25	25	25	10	25 5	30 5	10	5	5
Contact diameter (mm)	2.5	2.5	2.5	1.5	∅2.5X4 ∅1X2	∅3X2 ∅1X4	1.5	1	1
Rated voltage (AC.V)	500	500	500	500	500	500	500	400	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500	1500	1200	1200
Contact resistance (mΩ)	1	1	1	2.5	1 5	1 5	2.5	5	5
Insulation resistance (MΩ)	2000	2000	2000	2000	2000	2000	2000	2000	2000
Wire size (mm <sup>2</sup> / AWG)	≤4/11	≤4/11	≤4/11	≤2/14	≤4/11 ≤0.75/18	≤4/11 ≤0.75/18	≤2/14	≤0.75/18	≤0.75/18

WS24, WF24, WY24	2	3	4	9	10	12	12B	19
Male contact face view								
Rated current (A)	25	25	25	25 5	10	10	30 5	5
Contact diameter (mm)	2.5	2.5	2.5	∅2.5X4 ∅1X5	1.5	1.5	∅3X3 ∅1X9	1
Rated voltage (AC.V)	500	500	500	500	500	500	500	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500	1500	1200
Contact resistance (mΩ)	1	1	1	1 5	2.5	2.5	1 5	5
Insulation resistance (MΩ)	2000	2000	2000	2000	2000	2000	2000	2000
Wire size (mm <sup>2</sup> / AWG)	≤4/11	≤4/11	≤4/11	≤4/11 ≤0.75/18	≤2/14	≤2/14	≤4/11 ≤0.75/18	≤0.75/18

WS28, WF28, WY28	2	3	4	7	8	9	10	10B	12	16	17	20	24	26
Male contact face view														
Rated current (A)	50	50	25	25	25	25 5	25	10	10	10	10	5	5	5
Contact diameter (mm)	3.5	3.5	2.5	2.5	2.5	∅2.5X4 ∅1X5	2.5	1.5	1.5	1.5	1.5	1	1	1
Rated voltage (AC.V)	500	500	500	500	500	500	500	500	500	500	500	400	400	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1200	1200	1200
Contact resistance (mΩ)	0.5	0.5	1	1	1	1 5	1	2.5	2.5	2.5	2.5	5	5	5
Insulation resistance (MΩ)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Wire size (mm <sup>2</sup> / AWG)	≤10/7	≤10/7	≤4/11	≤4/11	≤4/11	≤4/11 ≤0.75/18	≤4/11	≤2/14	≤2/14	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18

## Solder contact spec




WS32、WF32、WY32	4	6	8	8B	10	10B	11	12	13	19
Male contact face view										
Rated current (A)	50	50 10	50 10	50 10	25 10	25	25	25	25 10	10
Contact diameter (mm)	3.5	∅3.5X4 ∅1.5X2	∅3.5X3 ∅1.5X5	∅3.5X4 ∅1.5X4	∅2.5X5 ∅1.5X5	2.5	2.5	2.5	∅2.5X4 ∅1.5X9	1.5
Rated voltage (AC.V)	500V	500V	500V	500V	500V	500V	500V	500V	500V	500V
Test voltage(AC.V) 1 min	1500V	1500V	1500V	1500V	1500V	1500V	1500V	1500V	1500V	1500V
Contact resistance (mΩ)	0.5	0.5 2.5	0.5 2.5	0.5 2.5	1 2.5	1	1	1	1 2.5	2.5
Insulation resistance (MΩ)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Wire size (mm <sup>2</sup> / AWG)	≤10/7	≤10/7 ≤2/14	≤10/7 ≤2/14	≤10/7 ≤2/14	≤4/11 ≤2/14	≤4/11	≤4/11	≤4/11	≤4/11 ≤2/14	≤2/14








WS40、WF40、WY40	5	9	15	26	31	52
Male contact face view						
Rated current (A)	50	50 25	10	25 10	10	5
Contact diameter (mm)	3.5	∅3.5X4 ∅2.5X5	1.5	∅2.5X4 ∅1.5X22	1.5	1
Rated voltage (AC.V)	500	500	500	500	500	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1200
Contact resistance (mΩ)	0.5	0.5 1	2.5	1 2.5	2.5	5
Insulation resistance (MΩ)	2000	2000	2000	2000	2000	2000
Wire size (mm <sup>2</sup> / AWG)	≤10/7	≤10/7 ≤4/11	≤2/14	≤4/11 ≤2/14	≤2/14	≤0.785/18





WS48、WF48、WY48	5	7	20	27	38	42
Male contact face view						
Rated current (A)	100	50	25	25 10	25 10	10
Contact diameter (mm)	5.5	3.5	2.5	∅2.5X1 ∅1.5X26	∅2.5X5 ∅1.5X33	1.5
Rated voltage (AC.V)	500	500	500	500	500	500
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500
Contact resistance (mΩ)	0.3	0.5	1	1 2.5	1 2.5	2.5
Insulation resistance (MΩ)	2000	2000	2000	2000	2000	2000
Wire size (mm <sup>2</sup> / AWG)	≤25/3	≤10/7	≤4/11	≤4/11 ≤2/14	≤4/11 ≤2/14	≤2/14





WS55、WF55、WY55	4	7	40	53	61
Male contact face view					
Rated current (A)	50 150	50 100	25 10	25 10	10
Contact diameter (mm)	∅3.5X1 ∅10X3	∅3.5X1 ∅5.5X6	∅2.5X15 ∅1.5X25	∅2.5X5 ∅1.5X48	1.5
Rated voltage (AC.V)	500	500	500	500	500
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500
Contact resistance (mΩ)	0.5 0.2	0.5 0.3	1 2.5	1 2.5	2.5
Insulation resistance (MΩ)	2000	2000	2000	2000	2000
Wire size (mm <sup>2</sup> / AWG)	≤10/7 ≤70/(2/0)	≤10/7 ≤16/5	≤4/11 ≤2/14	≤4/11 ≤2/14	≤2/14

## Crimp contact spec






SF16, SA16, SP17, SY17 WS16, WF16, WY16	2	3	4
Male contact face view			
Rated current (A)	10	10	5
Contact diameter (mm)	1.5	1.5	1
Rated voltage (AC.V)	500	500	400
Test voltage(AC.V) 1 min	1500	1500	1200
Contact resistance (mΩ)	2.5	2.5	5
Insulation resistance (MΩ)	2000	2000	2000




SF20, SA20, SP21, SY21 WS20, WF20, WY20, WP20	2	3	4	5	7	7B	8
Male contact face view							
Rated current (A)	25	25	25	10	10	5	5
Contact diameter (mm)	2.5	2.5	2.5	1.5	1.5	1	1
Rated voltage (AC.V)	500	500	500	500	500	400	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1200	1200
Contact resistance (mΩ)	1	1	1	2.5	2.5	5	5
Insulation resistance (MΩ)	2000	2000	2000	2000	2000	2000	2000



WS24, WF24, WY24	4	5	9	12
Male contact face view				
Rated current (A)	25	25	10	5
Contact diameter (mm)	2.5	2.5	1.5	1
Rated voltage (AC.V)	500	500	500	400
Test voltage(AC.V) 1 min	1500	1500	1500	1200
Contact resistance (mΩ)	1	1	2.5	5
Insulation resistance (MΩ)	2000	2000	2000	2000



SA28, SP29 WS28, WF28, WY28	7	12	15	19
Male contact face view				
Rated current (A)	25	10	5	5
Contact diameter (mm)	2.5	1.5	1	1
Rated voltage (AC.V)	500	500	400	400
Test voltage(AC.V) 1 min	1500	1500	1200	1200
Contact resistance (mΩ)	1	2.5	5	5
Insulation resistance (MΩ)	2000	2000	2000	2000

## Crimp contact spec

WS32, WF32, WY32	4	6	10	15	19
Male contact face view					
Rated current (A)	50	50 10	25	10	10
Contact diameter (mm)	3.5	∅3.5X4 ∅1.5X2	2.5	1.5	1.5
Rated voltage (AC.V)	500	500	500	500	500
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500
Contact resistance (mΩ)	0.5	0.5 2.5	1	2.5	2.5
Insulation resistance (MΩ)	2000	2000	2000	2000	2000

WS40, WF40, WY40	5	19	31
Male contact face view			
Rated current (A)	50	25	10
Contact diameter (mm)	3.5	2.5	1.5
Rated voltage (AC.V)	500	500	500
Test voltage(AC.V) 1 min	1500	1500	1500
Contact resistance (mΩ)	0.5	1	2.5
Insulation resistance (MΩ)	2000	2000	2000

WS48, WF48, WY48	31	42
Male contact face view		
Rated current (A)	25	10
Contact diameter (mm)	2.5	1.5
Rated voltage (AC.V)	500	500
Test voltage(AC.V) 1 min	1500	1500
Contact resistance (mΩ)	1	2.5
Insulation resistance (MΩ)	2000	2000

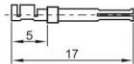
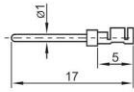
WS55, WF55, WY55	38	61
Male contact face view		
Rated current (A)	25	10
Contact diameter (mm)	2.5	1.5
Rated voltage (AC.V)	500	500
Test voltage(AC.V) 1 min	1500	1500
Contact resistance (mΩ)	1	2.5
Insulation resistance (MΩ)	2000	2000

## Crimp contact spec

### 5A Crimp contact

#### Stamped contact

Contact diameter:  $\varnothing 1$   
 Material: Brass with gold plating  
 Contact resistance:  $5m\Omega$



#### 5A Male crimp contact

For SF, SA, SP, SY, WP, WS/WF/WY16-28

Wire size (mm <sup>2</sup> / AWG)	Strip length (mm)	Part number	Crimping tool p/n	Removal tool p/n
0.20-0.52 / 24-20	5.5	YJ1-17-0.52AU	CT-P20/28	RT-1.0

#### 5A Female crimp contact

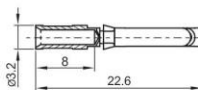
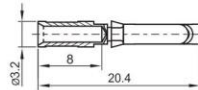
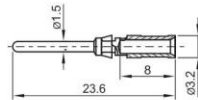
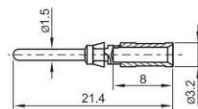
For SF, SA, SP, SY, WP, WS/WF/WY16-28

Wire size (mm <sup>2</sup> / AWG)	Strip length (mm)	Part number	Crimping tool p/n	Removal tool p/n
0.20-0.52 / 24-20	5.5	YK1-17-0.52AU	CT-P20/28	RT-1.0

### 10A Crimp contact

#### Machined contact

Contact diameter:  $\varnothing 1.5$   
 Material: Brass with gold plating  
 Contact resistance:  $2.5m\Omega$



#### 10A Male crimp contact

For SF, SA, SP, SY, WP, WS/WF/WY16-28

Wire size (mm <sup>2</sup> / AWG)	Strip length (mm)	Part number	Crimping tool p/n	Removal tool p/n
0.14-0.37 / 26-22	8	YJ1.5-21.4-0.37AU	CT-0.14/4	RT-1.5
0.5 / 20	8	YJ1.5-21.4-0.5AU	CT-0.14/4	RT-1.5
0.75-1.0 / 18	8	YJ1.5-21.4-1.0AU	CT-0.14/4	RT-1.5
1.5 / 16	8	YJ1.5-21.4-1.5AU	CT-0.14/4	RT-1.5
2.5 / 14	8	YJ1.5-21.4-2.5AU	CT-0.14/4	RT-1.5

#### 10A Male crimp contact

For WS/WF/WY32-55

Wire size (mm <sup>2</sup> / AWG)	Strip length (mm)	Part number	Crimping tool p/n	Removal tool p/n
0.14-0.37 / 26-22	8	YJ1.5-23.6-0.37AU	CT-0.14/4	RT-1.5
0.5 / 20	8	YJ1.5-23.6-0.5AU	CT-0.14/4	RT-1.5
0.75-1.0 / 18	8	YJ1.5-23.6-1.0AU	CT-0.14/4	RT-1.5
1.5 / 16	8	YJ1.5-23.6-1.5AU	CT-0.14/4	RT-1.5
2.5 / 14	8	YJ1.5-23.6-2.5AU	CT-0.14/4	RT-1.5

#### 10A Female crimp contact

For SF, SA, SP, SY, WP, WS/WF/WY16-28

Wire size (mm <sup>2</sup> / AWG)	Strip length (mm)	Part number	Crimping tool p/n	Removal tool p/n
0.14-0.37 / 26-22	8	YK1.5-20.4-0.37AU	CT-0.14/4	RT-1.5
0.5 / 20	8	YK1.5-20.4-0.5AU	CT-0.14/4	RT-1.5
0.75-1.0 / 18	8	YK1.5-20.4-1.0AU	CT-0.14/4	RT-1.5
1.5 / 16	8	YK1.5-20.4-1.5AU	CT-0.14/4	RT-1.5
2.5 / 14	8	YK1.5-20.4-2.5AU	CT-0.14/4	RT-1.5

#### 10A Female crimp contact

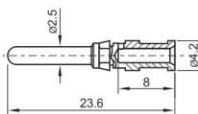
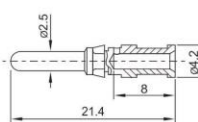
For WS/WF/WY32-55

Wire size (mm <sup>2</sup> / AWG)	Strip length (mm)	Part number	Crimping tool p/n	Removal tool p/n
0.14-0.37 / 26-22	8	YK1.5-22.6-0.37AU	CT-0.14/4	RT-1.5
0.5 / 20	8	YK1.5-22.6-0.5AU	CT-0.14/4	RT-1.5
0.75-1.0 / 18	8	YK1.5-22.6-1.0AU	CT-0.14/4	RT-1.5
1.5 / 16	8	YK1.5-22.6-1.5AU	CT-0.14/4	RT-1.5
2.5 / 14	8	YK1.5-22.6-2.5AU	CT-0.14/4	RT-1.5

### 25A Crimp contact

#### Machined contact

Contact diameter:  $\varnothing 2.5$   
 Material: Brass with gold plating  
 Contact resistance:  $1m\Omega$



#### 25A Male crimp contact

For SF, SA, SP, SY, WP, WS/WF/WY16-28

Wire size (mm <sup>2</sup> / AWG)	Strip length (mm)	Part number	Crimping tool p/n	Removal tool p/n
0.75-1.0 / 18	8	YJ2.5-21.4-1.0AU	CT-0.14/4	RT-2.5
1.5 / 16	8	YJ2.5-21.4-1.5AU	CT-0.14/4	RT-2.5
2.5 / 14	8	YJ2.5-21.4-2.5AU	CT-0.14/4	RT-2.5
4.0 / 12	8	YJ2.5-21.4-4.0AU	CT-0.14/4 CT-4/10	RT-2.5

#### 25A Male crimp contact

For WS/WF/WY32-55

Wire size (mm <sup>2</sup> / AWG)	Strip length (mm)	Part number	Crimping tool p/n	Removal tool p/n
0.75-1.0 / 18	8	YJ2.5-23.6-1.0AU	CT-0.14/4	RT-2.5
1.5 / 16	8	YJ2.5-23.6-1.5AU	CT-0.14/4	RT-2.5
2.5 / 14	8	YJ2.5-23.6-2.5AU	CT-0.14/4	RT-2.5
4.0 / 12	8	YJ2.5-23.6-4.0AU	CT-0.14/4 CT-4/10	RT-2.5

## Crimp contact spec

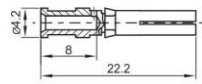
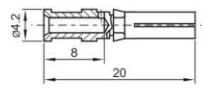
### 25A Crimp contact

#### Machined contact

Contact diameter:  $\varnothing 2.5$

Material: Brass with gold plating

Contact resistance:  $1\text{m}\Omega$



#### 25A Female crimp contact

For SF, SA, SP, SY, WP, WS/WF/WY16-28

Wire size (mm <sup>2</sup> / AWG)	Strip length (mm)	Part number	Crimping tool p/n	Removal tool p/n
0.75-1.0 / 18	8	YK2.5-20-1.0AU	CT-0.14/4	RT-2.5
1.5 / 16	8	YK2.5-20-1.5AU	CT-0.14/4	RT-2.5
2.5 / 14	8	YK2.5-20-2.5AU	CT-0.14/4	RT-2.5
4.0 / 12	8	YK2.5-20-4.0AU	CT-0.14/4 CT-4/10	RT-2.5

#### 25A Female crimp contact

For WS/WF/WY32-55

Wire size (mm <sup>2</sup> / AWG)	Strip length (mm)	Part number	Crimping tool p/n	Removal tool p/n
0.75-1.0 / 18	8	YK2.5-22.2-1.0AU	CT-0.14/4	RT-2.5
1.5 / 16	8	YK2.5-22.2-1.5AU	CT-0.14/4	RT-2.5
2.5 / 14	8	YK2.5-22.2-2.5AU	CT-0.14/4	RT-2.5
4.0 / 12	8	YK2.5-22.2-4.0AU	CT-0.14/4 CT-4/10	RT-2.5

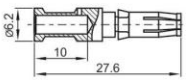
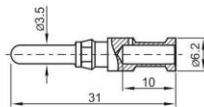
### 50A Crimp contact

#### Machined contact

Contact diameter:  $\varnothing 3.5$

Material: copper

Contact resistance:  $0.5\text{m}\Omega$



#### 50A Male crimp contact

For WS/WF/WY32-55

Wire size (mm <sup>2</sup> / AWG)	Strip length (mm)	Part number	Crimping tool p/n	Removal tool p/n
1.5 / 16	10	YJ3.5-31-1.5AU	CT-0.14/4	RT-3.5
2.5 / 14	10	YJ3.5-31-2.5AU	CT-0.14/4	RT-3.5
4.0 / 12	10	YJ3.5-31-4.0AU	CT-0.14/4 CT-4/10	RT-3.5
6.0 / 10	10	YJ3.5-31-6.0AU	CT-4/10	RT-3.5
10.0 / 7	10	YJ3.5-31-10.0AU	CT-4/10	RT-3.5

#### 50A Female crimp contact

For WS/WF/WY32-55

Wire size (mm <sup>2</sup> / AWG)	Strip length (mm)	Part number	Crimping tool p/n	Removal tool p/n
1.5 / 16	10	YK3.5-27.6-1.5AU	CT-0.14/4	RT-3.5
2.5 / 14	10	YK3.5-27.6-2.5AU	CT-0.14/4	RT-3.5
4.0 / 12	10	YK3.5-27.6-4.0AU	CT-0.14/4 CT-4/10	RT-3.5
6.0 / 10	10	YK3.5-27.6-6.0AU	CT-4/10	RT-3.5
10.0 / 7	10	YK3.5-27.6-10.0AU	CT-4/10	RT-3.5

### Crimp tool and Removal tool

#### Crimp tool



Part number	Crimp wire range (mm <sup>2</sup> / AWG)
CT-P20/28	0.08-0.52 / 28-20
CT-0.14/4	0.14-4.0 / 26-12
CT-4/10	4.0-10.0 / 12-7

#### Removal tool



Part number	Removal range
RT-1.0	5A Male / Female crimp contact
RT-1.5	10A Male / Female crimp contact
RT-2.5	25A Male / Female crimp contact
RT-3.5	50A Male / Female crimp contact

~ M E M O ~



[www.weipuconnector.com](http://www.weipuconnector.com)

Edition: 07.2018



**B.C.E. s.r.l.**

Via Regina Pacis, 54/c - 41049 SASSUOLO (MO) Italy

Tel. +39 0536 811.616 r.a. - Fax +39 0536 811.500

[www.bce.it](http://www.bce.it) - E-mail: [bce@bce.it](mailto:bce@bce.it)

