



## Connect to put the new realm of technique

WEIPU Electrical Appliance Co.,Ltd was established in 1996, specialize in R&D and manufacturing the industrial connectors , we are the member of “National Electrical Appliances Standardization Technical Committees ” and one of the members to draft the national standard for industrial connectors GB11918-2014.



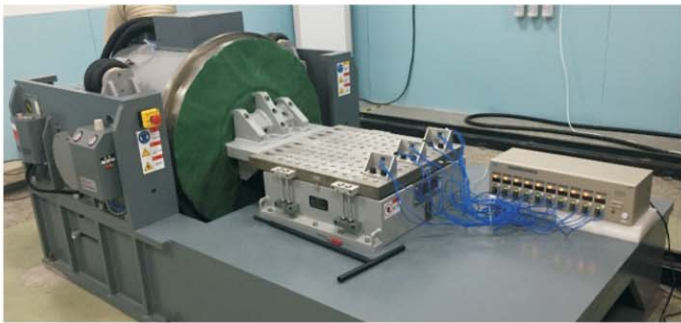
Factory premises

Workshop building





## In-house Test Lab Equipment



Vibration Test Equipment



Electric Current Break Test Equipment



Optical Comparator



Waterproof IP Rating Test Chamber



Mating Cycle Life Time Test Machine



Accurate Size Test Equipment





## Series

### M23 Series

[CLICK >](#)

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



### SF Series

[CLICK >](#)

IP rating: IP67  
 Coupling: push-pull  
 No. of contact: SF6: 2-5    Sf12: 2-9  
                   SF8: 2-8    SF16: 2-10  
                   SF10: 2-5    SF20: 2-15



### SA Series

[CLICK >](#)

IP rating: IP67  
 Coupling: push-pull  
 No. of contact: SA6: 2-5    SA16: 2-10  
                   SA8: 2-8    SA20: 2-15  
                   SA10: 2-5    SA28: 2-35  
                   SA12: 2-9



### ST Series

[CLICK >](#)

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



## Series

### SP Series

[CLICK >](#)

IP rating: IP68

Coupling: threaded

No. of contact: SP 11: 2-5    SP 21: 2-12  
                  SP 13: 2-9    SP 29: 2-35  
                  SP 17: 2-10



### SY Series

[CLICK >](#)

IP rating: IP67

Coupling: bayonet

No. of contact: SY 13: 2-9  
                  SY 17: 2-10  
                  SY 21: 2-12  
                  SY 29: 2-35



### WA22 Series

[CLICK >](#)

IP rating: IP67

Coupling: threaded

No. of contact: 3+PE, 6+PE



### WAC3 Series

[CLICK >](#)

IP rating: IP65

Coupling: bayonet

No. of contact: 3





## Series

### RJ45F Series

[CLICK >](#)

IP rating: IP67  
Coupling: bayonet



### WP Series

[CLICK >](#)

IP rating: IP44 , IP55  
Coupling: bayonet  
No. of contact:2-15



### WT Series

[CLICK >](#)

IP rating: for indoor only  
Coupling: bayonet  
No. of contact:3 , 5



### WL52 Series

[CLICK >](#)

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



## Series

### WD Series

[CLICK >](#)

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



### WB Series

[CLICK >](#)

IP rating: for indoor only  
Coupling: threaded  
No. of contact: 4, 7



### WS Series

[CLICK >](#)

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



### WF Series

[CLICK >](#)

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





## Series

### WY Series

[CLICK >](#)

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



### Electrical accessories

[CLICK >](#)

Cable gland  
Adapter  
Junction-box



### Solder contact spec

[CLICK >](#)

For WP,WS, WF, WY series



### Crimp contact spec and tool

[CLICK >](#)

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



**IP67**


● **M23 for power**

**Material and spec**

Shell material	Zinc alloy with nickel plating
Contact material	Brass with gold plating
Insert material	PA66
Insulation resistance	$> 10^{13} \text{ m}\Omega$
Termination	Crimp
Temperature range	$-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$
Mating cycle	1000
Cable outer diameter range	I: 4-8mm (Special order) II: 8-13mm (Standard) III: 12-17mm (Special order)
IP rating	IP67
Coupling	Threaded coupling

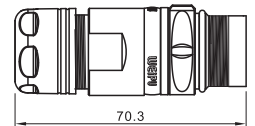
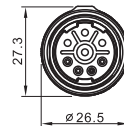


**Male contact cable connector**

M23DJ\_TK

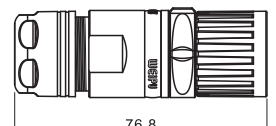
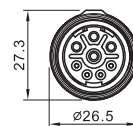
Number of contact

- Colour
  - Gray: GY (Standard)
  - Black: BK (Special order), Orange: OG (Special order)
  - Blue: BU (Special order), Green: GN (Special order)
  - Purple: PL (Special order)
- Cable outer diameter range
  - I: 4-8mm (Special order) II: 8-13mm (Standard)
  - III: 12-17mm (Special order)
- S:Shield
- U:Unshielded



**Female contact cable connector**

M23DK\_TK\_ \_ \_







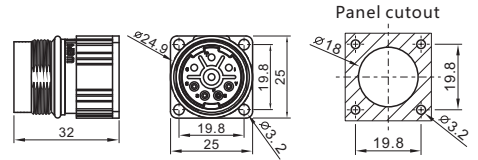
**Male contact square flange receptacle**

M23DJ\_Z

Number of contact

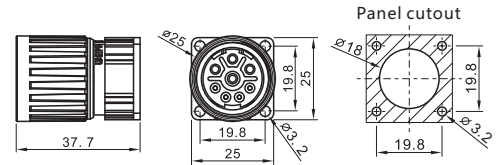
Colour

- Gray: GY (Standard)
- Black: BK (Special order), Orange: OG (Special order)
- Blue: BU (Special order), Green: GN (Special order)
- Purple: PL (Special order)



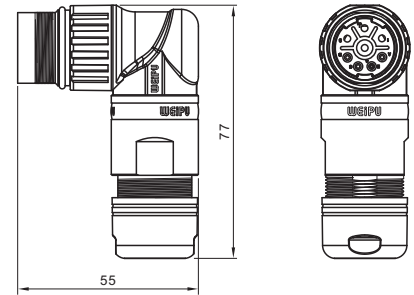
**Female contact square flange receptacle**

M23DK\_Z\_



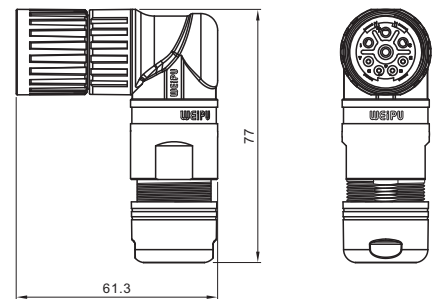
**Male contact angled cable connector**

M23DJ\_TL\_ \_ \_



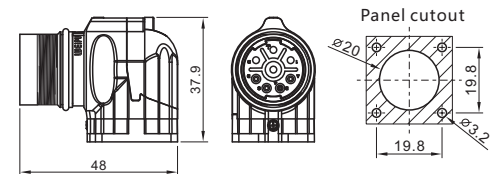
**Female contact angled cable connector**

M23DK\_TL\_ \_ \_



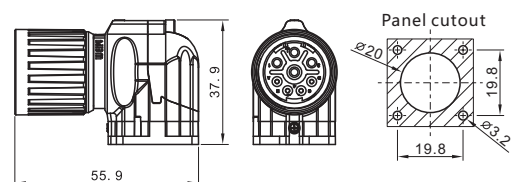
**Male contact angled square flange receptacle**

M23DJ\_ZL\_


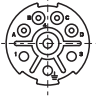


**Female contact angled square flange receptacle**

M23DK\_ZL\_



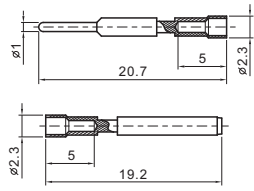
## M23 for power contact arrangement and spec

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

# M23 contact spec

## 8A Crimp contact

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



### 8A Male crimp contact

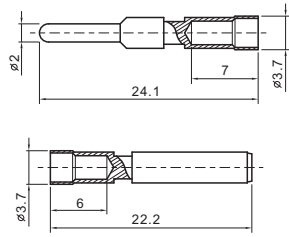
Wire size	Stripping length	Male crimp contact p/n	Crimping tool p/n
0.25-1.0mm <sup>2</sup> AWG 23-17	4mm	YJ1-20.7-1.0AU	CT-W26/12

### 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
1-2.5mm <sup>2</sup> AWG 18-13	7mm	YJ2-24.1-2.5AU	CT-W26/12
2.5-4mm <sup>2</sup> AWG 13-12	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
1-2.5mm <sup>2</sup> AWG 18-13	6mm	YK2-22.2-2.5AU	CT-W26/12
2.5-4mm <sup>2</sup> AWG 13-12	6mm	YK2-22.2-4.0AU	CT-W26/12

## Crimp tool

For crimping the male / female contacts



Part number	Crimping wire range
CT-P20/28	0.08-0.52mm <sup>2</sup> AWG 28-20
CTW-0.14/4	0.14-4mm <sup>2</sup> AWG 25-11
CT-4/10	4-10mm <sup>2</sup> AWG 11-7



**IP67**


● **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: $>10^{10}$ m $\Omega$	17、19 pins: $>10^6$ m $\Omega$
Termination	Crimp	
Temperature range	-40℃~+125℃	
Mating cycle	1000	
Cable outer diameter range	I: 4-8mm (Special order) II: 8-13mm (Standard) III: 12-17mm (Special order)	
IP rating	IP67	
Coupling	Threaded coupling	

**Male contact cable connector**



M23SJ TK

Number of contact

Coded chuck **CLICK**

N: Gray (Standard), S: Black (Special order)

H: Orange (Special order), X: Blue (Special order)

Y: Green (Special order), Z: Purple (Special order)

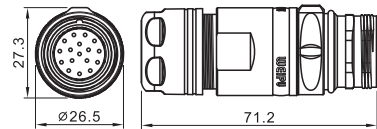
Cable outer diameter range

I: 4-8mm (Special order) II: 8-13mm (Standard)

III: 12-17mm (Special order)

S: Shield

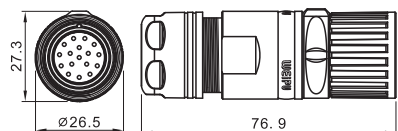
U: Unshielded



**Female contact cable connector**



M23SK TK





**Male contact square flange receptacle**

M23SJ\_Z

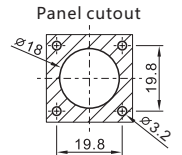
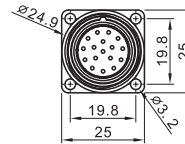
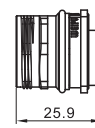
Number of contact

Coded chuck (See P7)

N: Gray (Standard), S:Black (Special order)

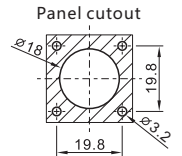
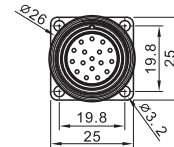
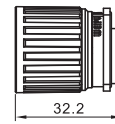
H: Orange (Special order), X: Blue (Special order)

Y: Green (Special order), Z: Purple (Special order)



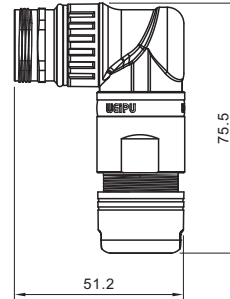
**Female contact square flange receptacle**

M23SK\_Z\_



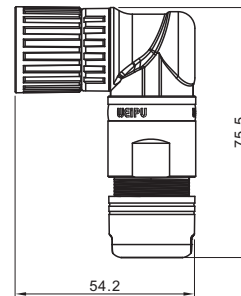
**Male contact angled cable connector**

M23SJ\_TL\_ \_ \_



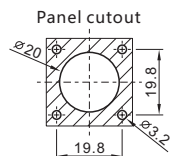
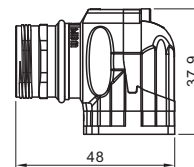
**Female contact angled cable connector**

M23SK\_TL\_ \_ \_



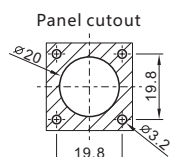
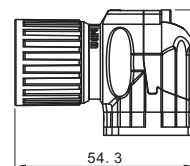
**Male contact angled square flange receptacle**

M23SJ\_ZL\_



**Female contact angled square flange receptacle**

M23SK\_ZL\_

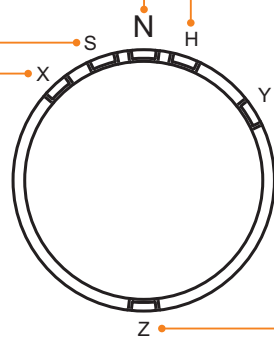


## M23 for signal contact arrangement and spec

Male contact face view	Number of contact	Contact diameter (mm)	Rated voltage (AC.V)	Rated current (A)	Test voltage (AC.V)1min
	9(8+1)	ø1 8 ø2 1	300	8 20	2500
	12	ø1 12	300	8	2500
	17	ø1 17	150	8	1500
	19(16+3)	ø1 16 ø1.5 3	150	8 10	1500

Number of Contact	Optional Angle	Coded Chuck
9	N, S, H, X, Y	 Female contact face view      Male contact face view
12	N, S, H, X, Y, Z	
17	N, S, H, X, Y, Z	
19	N, S, H, X, Y	

Code N is open in original state, if you need to use another, please open the coded chuck head.



Choose different coded chucks with different colours

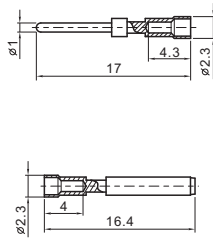


## M23 for signal contact spec

### 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
0.08-0.5mm <sup>2</sup> AWG 28-20	4mm	YJ1-17-0.56AU	CT-W32/20
0.56-1mm <sup>2</sup> AWG 20-17	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

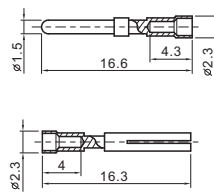
#### 8A Female crimp contact

Wire size	Stripping length	Female crimp contact p/n	Crimping tool p/n
0.08-0.5mm <sup>2</sup> AWG 28-20	4mm	YK1-16.4-0.56AU	CT-W32/20
0.56-1mm <sup>2</sup> AWG 20-17	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
0.14-0.5mm <sup>2</sup> AWG 26-20	4mm	YJ1.5-16.6-0.56AU	CT-W26/12
0.5-1mm <sup>2</sup> AWG 20-17	4mm	YJ1.5-16.6-1.0AU	CT-W26/12

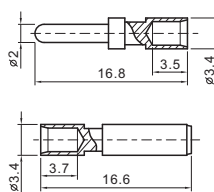
#### 10A Female crimp contact

Wire size	Stripping length	Female crimp contact p/n	Crimping tool p/n
0.14-0.5mm <sup>2</sup> AWG 26-20	4mm	YK1.5-16.3-0.56AU	CT-W26/12
0.56-1mm <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	3.5mm	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	3.5mm	YK2-16.6-2.5AU	CT-W26/12

### Crimping tool

For crimping the male / female contacts



Part number	Crimping wire range
CT-P20/28	0.08-0.52mm <sup>2</sup> AWG 28-20
CTW-0.14/4	0.14-4mm <sup>2</sup> AWG 25-11
CT-4/10	4-10mm <sup>2</sup> AWG 11-7



**IP67**

**M23 Series**





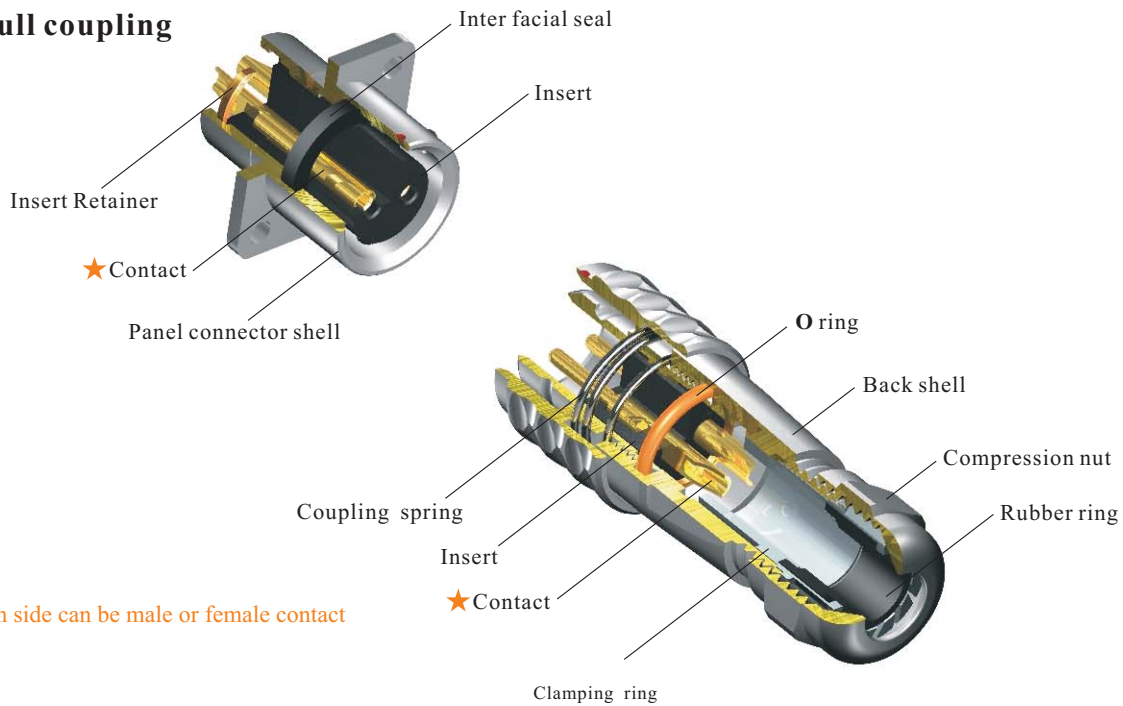


**SF Series**

**IP67**



- SF Series IP67
- Push-pull coupling



★ Each side can be male or female contact

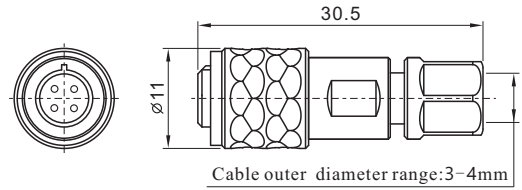
### Material and spec

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)
Cable outer diameter range	Sf6: 3-4mm SF8: 4-5mm SF10: 4-6.5mm SF12: I: 4-6.5mm(default,no mark), II: 5-8mm SF16 I: 5-8mm (default,no mark), II: 8-12mm SF20 I: 8-12mm
IP rating	SF6, SF8: IP44 / IP67 SF10, SF12, SF16, SF20: IP67
Mating cycle	500
Temperature range	-40°C ~ +85°C
Insulation resistance	2000MΩ

SF6 Series IP67



**Cable connector**  
Mate with SF611B, SF612B, SF615B

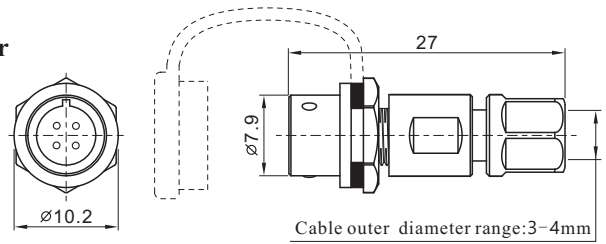


SF610B/P\_      SF610B/S\_

Male contact      Number of contact  
Female contact



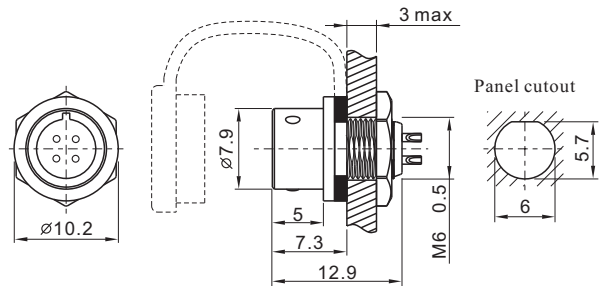
**In-line cable connector**  
Mate with SF610B



SF611B/P\_      SF611B/S\_



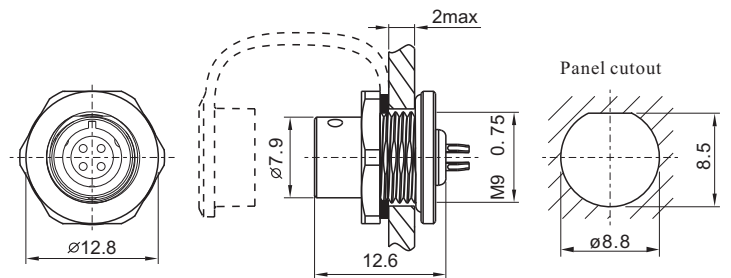
**Rear-nut mount**  
Mate with SF610B



SF612B/P\_      SF612B/S\_



**Front-nut mount**  
Mate with SF610B



SF615B/P\_      SF615B/S\_

**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 2	∅0.6 3	∅0.6 4	∅0.6 5
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 IP67



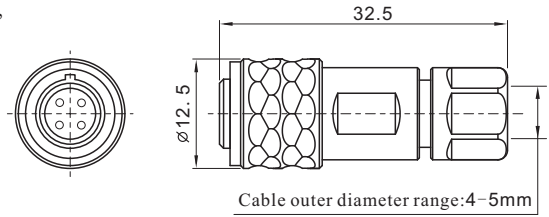
**Cable connector**  
Mate with SF811B, SF812B,  
SF815B

SF810B/P

SF810B/S

Male contact

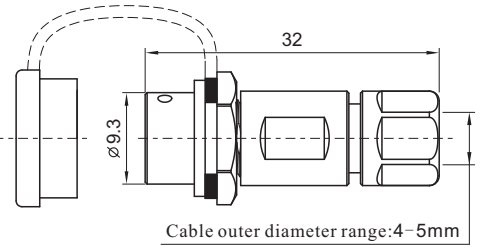
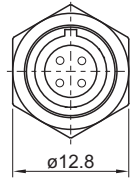
Number of contact  
Female contact



SF811B/P

SF811B/S

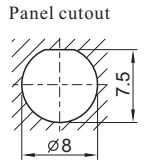
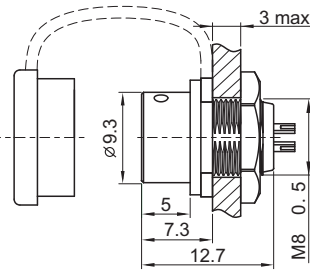
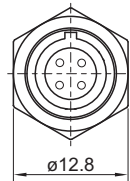
**In-line cable connector**  
Mate with SF810B



SF812B/P

SF812B/S

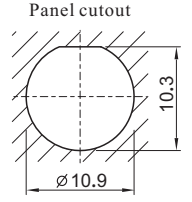
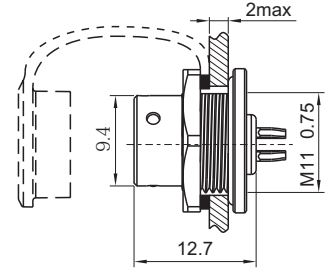
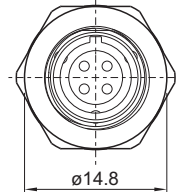
**Rear-nut mount**  
Mate with SF810B



SF815B/P

SF815B/S

**Front-nut mount**  
Mate with SF810B



**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)	∅1×2	∅1×3	∅0.6×4	∅0.6×6	∅0.6×8
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**



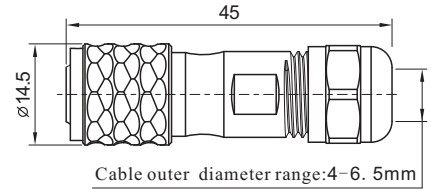
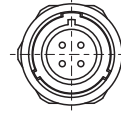
**Cable connector**  
Mate with SF1011, SF1012, SF1015

SF1010 / P

SF1010 / S

Male contact

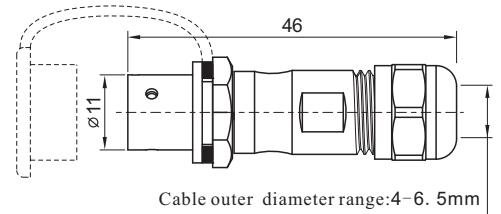
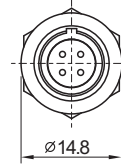
Number of contact  
Female contact



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

SF1011 / P

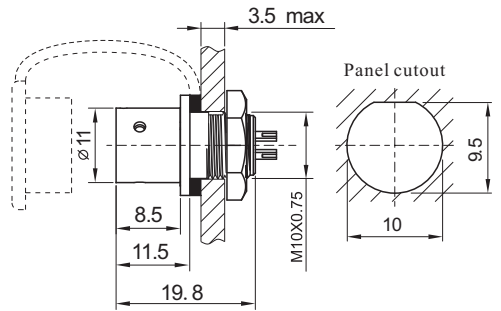
SF1011 / S



**Rear-nut mount**  
Mate with SF1010

SF1012 / P

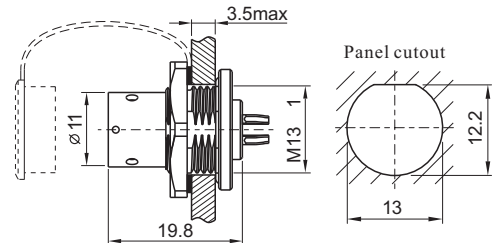
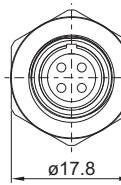
SF1012 / S



**Front-nut mount**  
Mate with SF1010

SF1015 / P

SF1015 / S



**Solder contact spec**

Number of contact	2	3	4	5
Male contact face view				
Rated current (A)	5	5	3	3
Contact diameter(mm)	∅1×2	∅1×3	∅0.7×4	∅0.7×5
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**



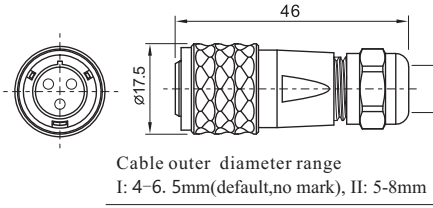
**Cable connector**  
Mate with SF1211, SF1212, SF1213, SF1215

SF1210 / P — SF1210 / S

Male contact

(U):

Cable outer diameter  
I: 4-6.5mm(default,no mark), II: 5-8mm  
Number of contact  
Female contact

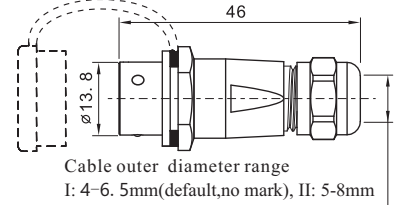
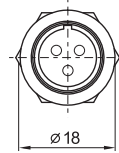


Cable outer diameter range  
I: 4-6.5mm(default,no mark), II: 5-8mm



**In-line cable connector**  
Mate with SF1210, SF1214

SF1211 / P — SF1211 / S



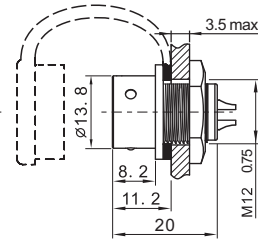
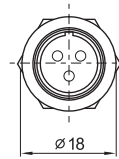
Cable outer diameter range  
I: 4-6.5mm(default,no mark), II: 5-8mm



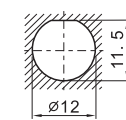
**Rear-nut mount**  
Mate with SF1210, SF1214

SF1212 / P — SF1212 / S

(U):   
Number of contact

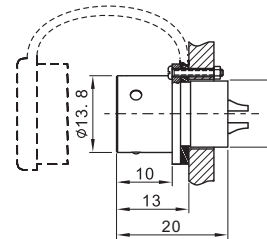
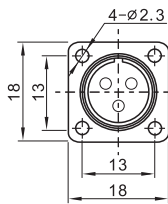


Panel cutout

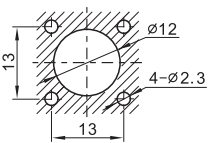


**Square flange**  
Mate with SF1210, SF1214

SF1213 / P — SF1213 / S



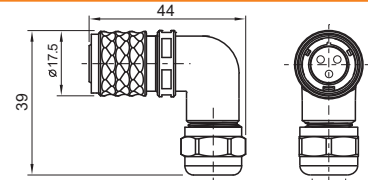
Panel cutout



**Angled cable connector**  
Mate with SF1211, SF1212, SF1213, SF1215

SF1214 / P — II SF1214 / S — II

(U):

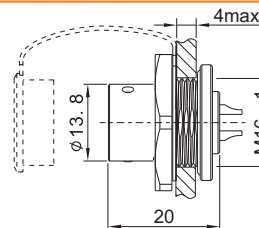
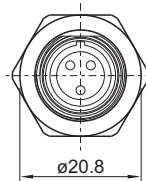


Cable outer diameter range:5-8mm

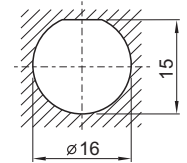


**Front-nut mount**  
Mate with SF1210, SF1214

SF1215 / P — II SF1215 / S — II



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)	Ø1.6X2	Ø1.6X3	Ø1X4	Ø1X5	Ø1X6	Ø1X7	Ø0.7X9
Rated voltage (AC.V)	250	250	200   300	180   300	125   300	125   300	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 Series IP67

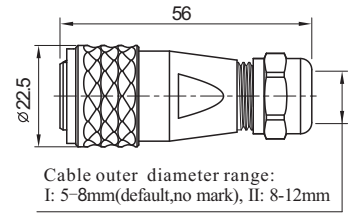
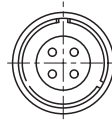
**SF  
16**



**Cable connector**  
Mate with SF1611, SF1612,  
SF1613, SF1615

SF1610 / P \_ \_ \_ SF1610 / S \_ \_ \_  
Male contact

I: solder(default,no mark), 3: crimp  
Cable outer diameter  
I: 5-8mm(default,no mark), II: 8-12mm  
Number of contact  
Female contact

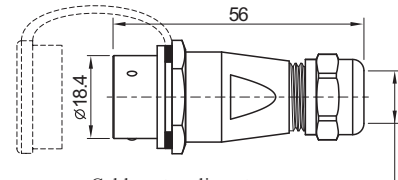


Cable outer diameter range:  
I: 5-8mm(default,no mark), II: 8-12mm



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

SF1611 / P \_ \_ \_ SF1611 / S \_ \_ \_



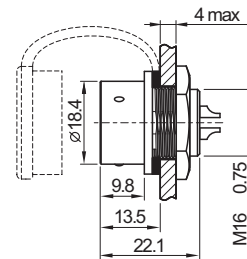
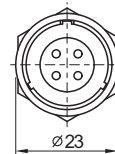
Cable outer diameter range:  
I: 5-8mm(default,no mark), II: 8-12mm



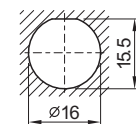
**Rear-nut mount**  
Mate with SF1610

SF1612 / P \_ \_ \_ SF1612 / S \_ \_ \_

I: solder(default,no mark), 3: crimp  
Number of contact

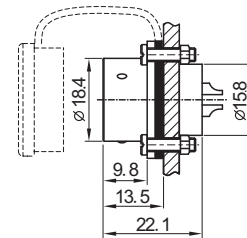
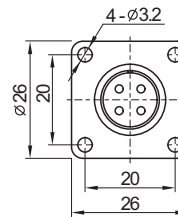


Panel cutout

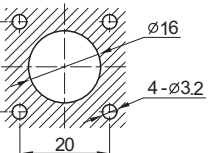


**Square flange**  
Mate with SF1610

SF1613 / P \_ \_ \_ SF1613 / S \_ \_ \_

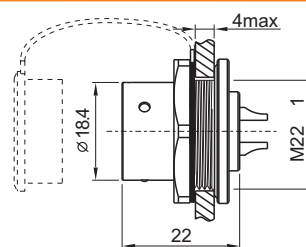
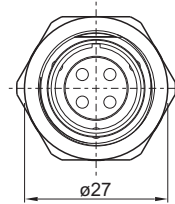


Panel cutout

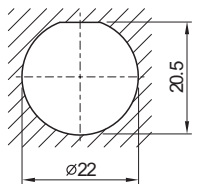


**Front-nut mount**  
Mate with SF1610

SF1615 / P \_ \_ \_ SF1615 / S \_ \_ \_



Panel cutout



## Solder contact spec

★ Crimp contact spec [CLICK >](#)

Number of contact	2	3	4	2B	3B	4B	5	7	9	10
Male contact face view										
Rated current (A)	10	10	5	15	15	15	5	5	5	5
Contact diameter(mm)	∅1.5X2	∅1.5X3	∅1X4	∅2X2	∅2X3	∅2X4	∅1X5	∅1X7	∅1X9	∅1X10
Rated voltage (AC.V)	500	500	500	500	500	500	500	400	400	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500	1500	1200	1200	1200
Contact resistance (mΩ)	2.5	2.5	5	2.5	2.5	2.5	5	5	5	5
Wire size (mm <sup>2</sup> /AWG)	≤2/14	≤2/14	≤0.75/18	≤2/14	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18

# SF20 Series IP67

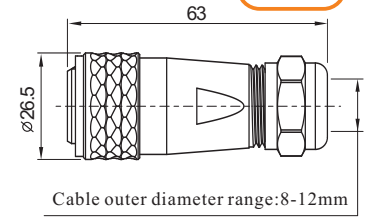
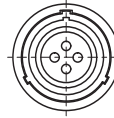
**SF  
20**



**Cable connector**  
Mate with SF2011, SF2012,  
SF2013, SF2015

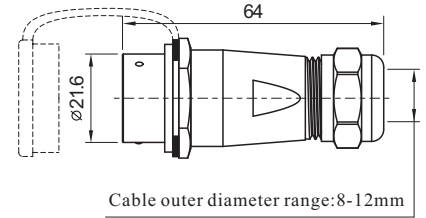
SF2010 / P\_\_ SF2010 / S\_\_  
Male contact Female contact

1: solder(default, no mark), 2: screw, 3: crimp  
Number of contact



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

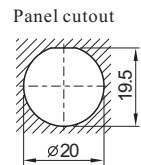
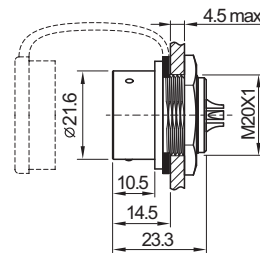
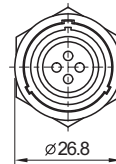
SF2011 / P\_\_ SF2011 / S\_\_



**Rear-nut mount**  
Mate with SF2010

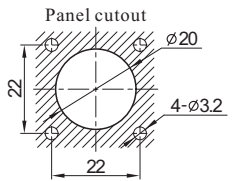
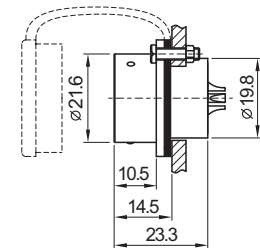
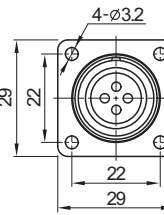
SF2012 / P\_\_ SF2012 / S\_\_

1: solder(default, no mark)  
2: screw  
3: crimp  
Number of contact



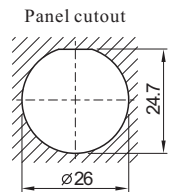
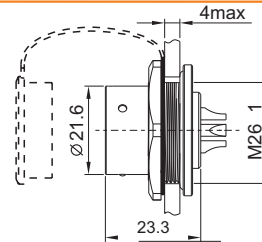
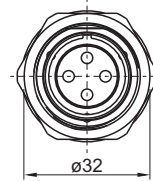
**Square flange**  
Mate with SF2010

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



**Front-nut mount**  
Mate with SF2010

SF2015 / P\_\_ SF2015 / S\_\_



## Solder contact spec

★ Crimp contact spec [CLICK >](#)

★ Screw contact spec [CLICK >](#)

Number of contact	2	3	4	5	6	6B	7	8	9	12	15
Male contact face view											
Rated current (A)	25	25	25	10	25 5	30 5	10	10	5	5	5
Contact diameter(mm)	ø2.5X2	ø2.5X3	ø2.5X4	ø1.5X5	ø2.5X4 ø1X2	ø3X2 ø1X4	ø1.5X7	ø1.5X8	ø1X9	ø1X12	ø1X15
Rated voltage (AC.V)	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	1200	1200	1200
Contact resistance (mΩ)	1	1	1	2.5	1 5	1 5	2.5	2.5	5	5	5
Termination	solder / screw	solder / screw	solder / screw	solder	solder	solder	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	≤4/11 ≤0.75/18	≤2/14	≤2/14	≤0.75/18	≤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	/	/	/	/	/	/	/	/



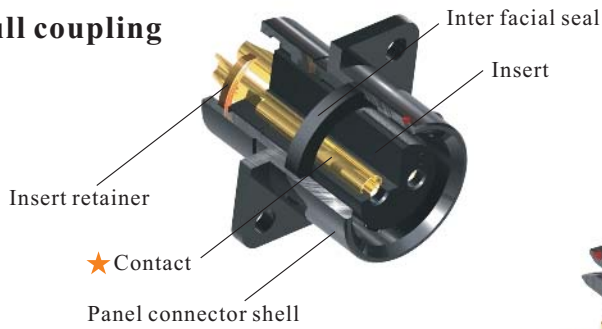




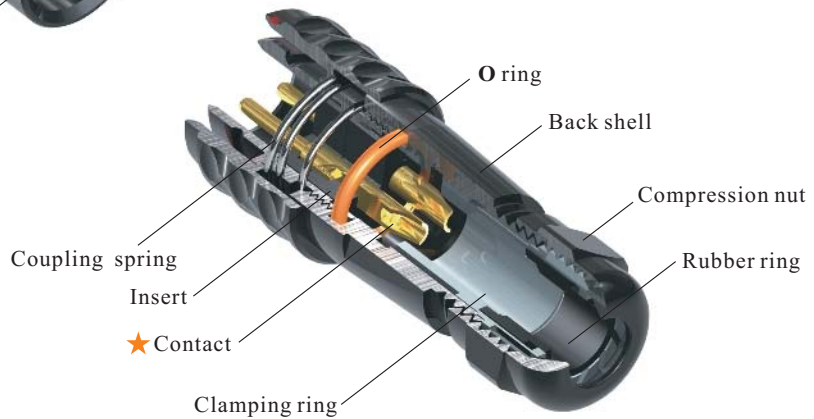
IP67



- 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		
Cable outer diameter range	SA6: 3.5-4mm SA8: 4-5mm SA10: 4-6.5mm	SA12: I: 4-6.5mm(default,no mark), II: 5-8mm SA16: I: 5-8mm (default,no mark), II: 8-12mm SA20: 8-12mm	SA28: 13-16mm
IP rating	IP67		
Mating cycle	500		
Temperature range	-40°C ~+85°C		
Insulation resistance	2000 MΩ		

SA6 Series



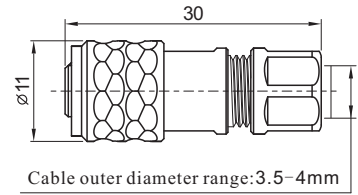
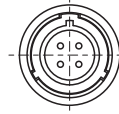
**Cable connector**  
Mate with SA611, SA612,  
SA615

SA610 / P \_\_\_

SA610 / S \_\_\_

Male contact

Colour:  
B: Black  
S: Silver  
L: Blue (special order)  
G: Green (special order)  
R: Red (special order)  
Number of contact  
Female contact

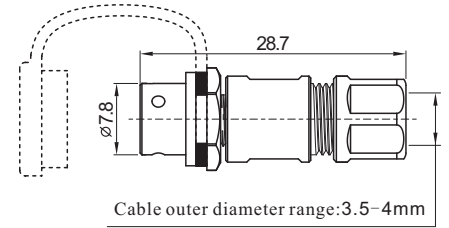
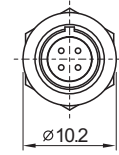


SA611 / P \_\_\_

SA611 / S \_\_\_



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

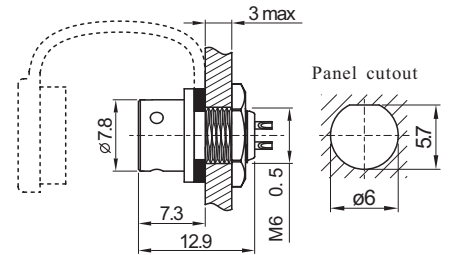
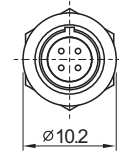


SA612 / P \_\_\_

SA612 / S \_\_\_



**Rear-nut mount**  
Mate with SA610

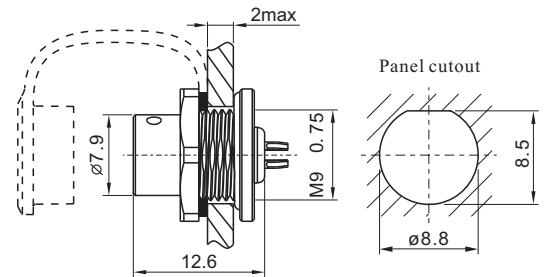
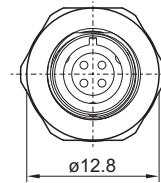


SA615 / P \_\_\_

SA615 / S \_\_\_



**Front-nut mount**  
Mate with SA610



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 2	∅0.6 3	∅0.6 4	∅0.6 5
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

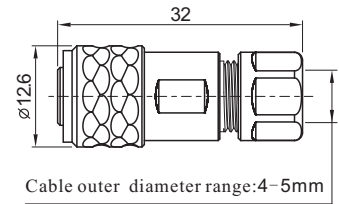
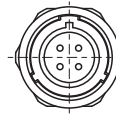
**SA8 Series**



**Cable connector**  
Mate with SA811, SA812, SA815

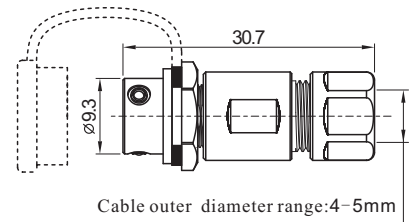
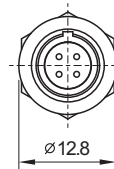
SA810 / P \_\_\_    SA810 / S \_\_\_  
Male contact

Colour:  
B: Black  
S: Silver  
L: Blue (special order)  
G: Green (special order)  
R: Red (special order)  
Number of contact  
Female contact



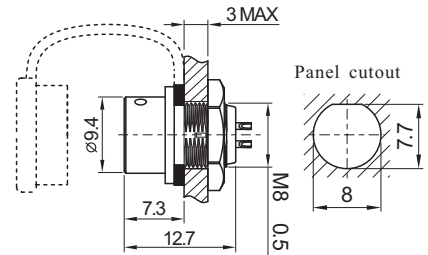
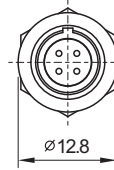
**In-line cable connector**  
Mate with SA810

SA811 / P \_\_\_    SA811 / S \_\_\_



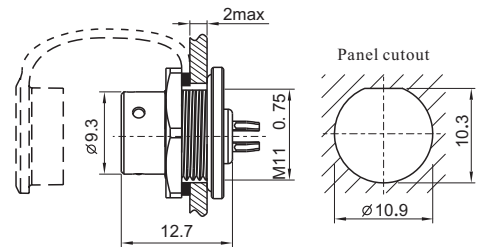
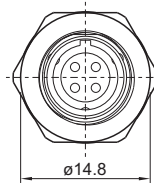
**Rear-nut mount**  
Mate with SA810

SA812 / P \_\_\_    SA812 / S \_\_\_



**Front-nut mount**  
Mate with SA810

SA815 / P \_\_\_    SA815 / 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)	∅1×2	∅1×3	∅0.6×4	∅0.6×6	∅0.6×8
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



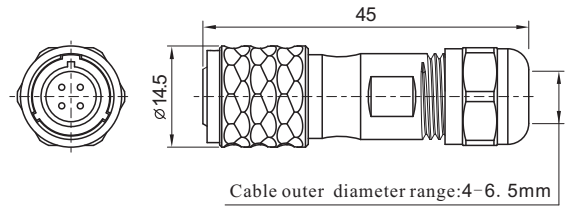
**SA10 Series**



**Cable connector**  
Mate with SA1011, SA1012, SA1015

SA1010 / P \_\_\_ SA1010 / S \_\_\_  
Male contact

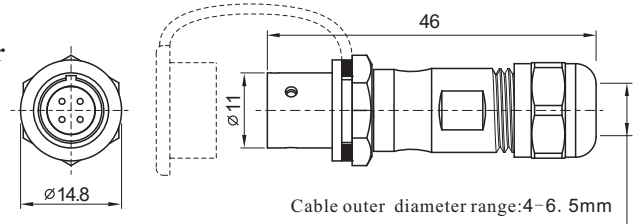
Colour:  
B: Black  
S: Silver  
L: Blue (special order)  
G: Green (special order)  
R: Red (special order)  
Number of contact  
Female contact



SA1011 / P \_\_\_ SA1011 / S \_\_\_



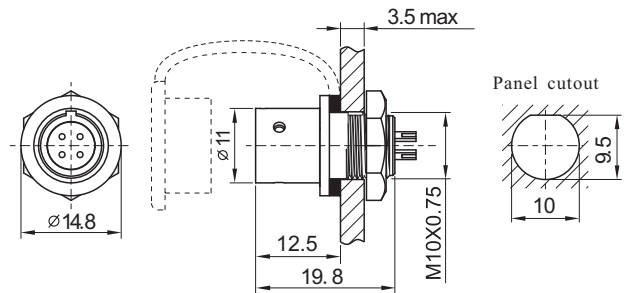
**In-line cable connector**  
Mate with SA1010



SA1012 / P \_\_\_ SA1012 / S \_\_\_



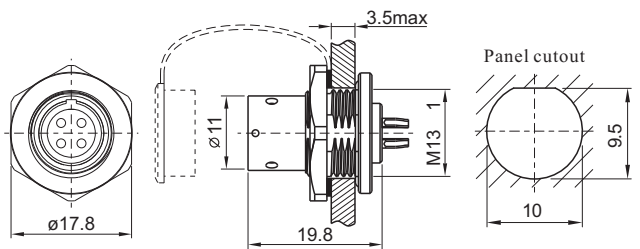
**Rear-nut mount**  
Mate with SA1010



SA1015 / P \_\_\_ SA1015 / S \_\_\_



**Front-nut mount**  
Mate with SA1010



**Solder contact spec**

Number of contact	2	3	4	5
Male contact face view				
Rated current (A)	5	5	3	3
Contact diameter(mm)	ø1×2	ø1×3	ø0.7×4	ø0.7×5
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

**SA  
12**

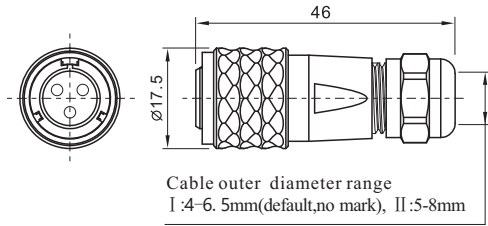


### Cable connector

Mate with SA1211, SA1212,  
SA1213, SA1215

SA1210/P — SA1210/S  
Male contact  
Female contact  
Number of contact

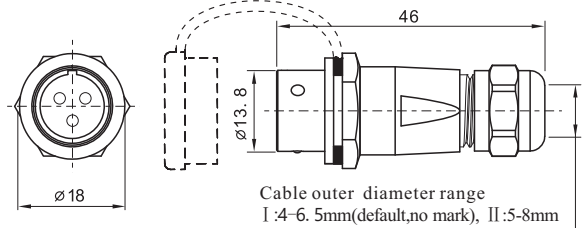
Colour:  
B: Black  
S: Silver  
L: Blue (special order)  
G: Green (special order)  
R: Red (special order)  
Cable outer diameter  
I : 4-6.5mm(default,no mark), II : 5-8mm



SA1211/P — SA1211/S

### In-line cable connector

Mate with SA1210

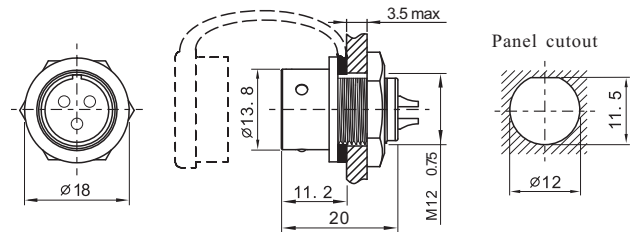


SA1212/P — SA1212/S  
Number of contact

### Rear-nut mount

Mate with SA1210

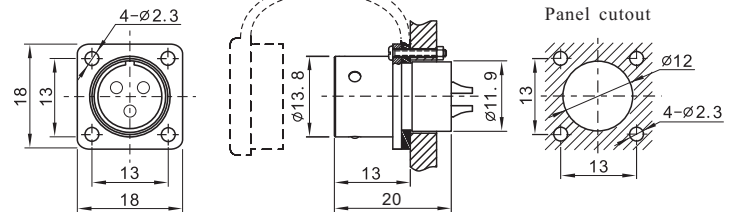
Colour:  
B: Black  
S: Silver  
L: Blue (special order)  
G: Green (special order)  
R: Red (special order)



SA1213/P — SA1213/S

### Square flange

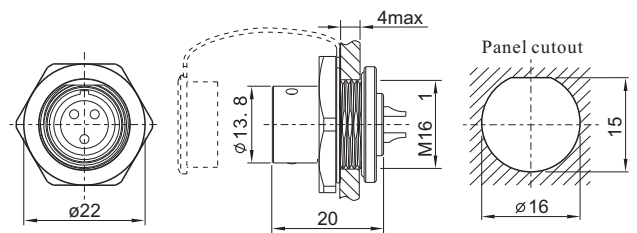
Mate with SA1210



SA1215/P — SA1215/S

### Front-nut mount

Mate with SA1210



## 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	Ø1.6X2	Ø1.6X3	Ø1X4	Ø1X5	Ø1X6	Ø1X7	Ø0.7X9
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

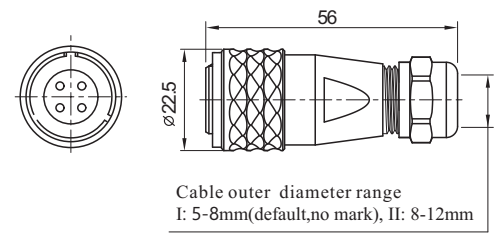
# SA16 Series



**Cable connector**  
Mate with SA1611, SA1612, SA1613, SA1615

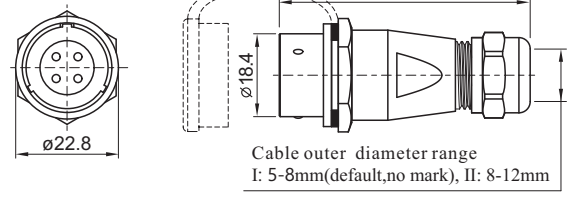
SA1610/P --- SA1610/S

- Male contact
- Female contact
- Number of contact
- Cable outer diameter  
I: 5-8mm(default,no mark), II: 8-12mm
- 1: solder(default,no mark), 3: crimp
- Colour:  
B: Black  
S: Silver  
L: Blue (special order)  
G: Green (special order)  
R: Red (special order)



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

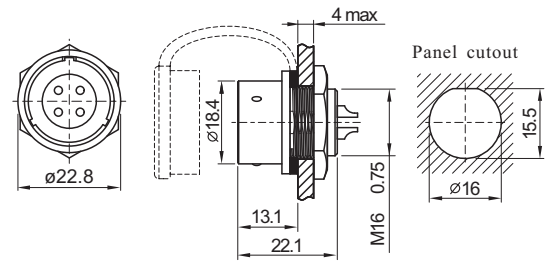
SA1611/P --- SA1611/S



**Rear-nut mount**  
Mate with SA1610

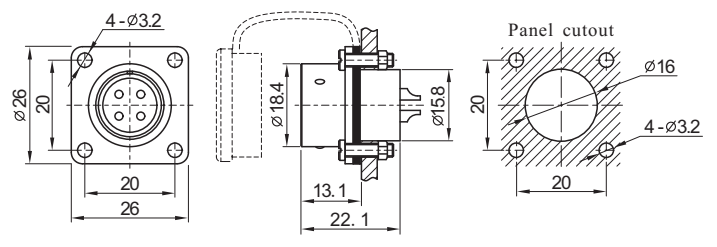
SA1612/P --- SA1612/S

- Number of contact
- Colour
- 1: solder(default,no mark), 3: crimp



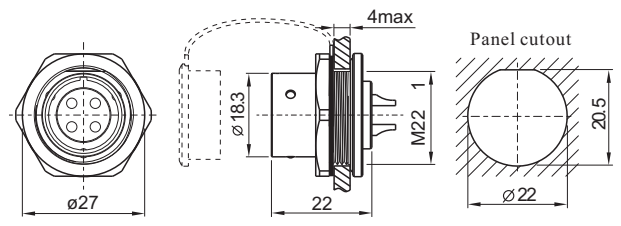
**Square flange**  
Mate with SA1610

SA1613/P --- SA1613/S



**Front-nut mount**  
Mate with SA1610

SA1615/P --- SA1615/S



## Solder contact spec

★ Crimp contact spec [CLICK](#)

Number of contact	2	3	4	2B	3B	4B	5	7	9	10
Male contact face view										
Rated current (A)	10	10	5	15	15	15	5	5	5	5
Contact diameter(mm)	Ø1.5X2	Ø1.5X3	Ø1X4	Ø2X2	Ø2X3	Ø2X4	Ø1X5	Ø1X7	Ø1X9	Ø1X10
Rated voltage (AC.V)	500	500	500	500	500	500	500	400	400	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500	1500	1200	1200	1200
Contact resistance (mΩ)	2.5	2.5	5	2.5	2.5	2.5	5	5	5	5
Wire size (mm <sup>2</sup> /AWG)	≤2/14	≤2/14	≤0.75/18	≤2/14	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18

## SA20 Series



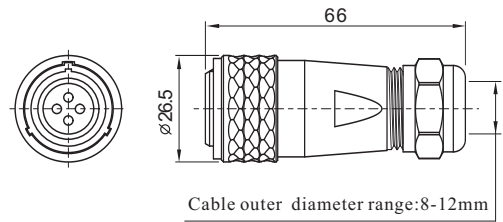
### Cable connector

Mate with SA2011, SA2012, SA2013, SA2015

**SA  
20**

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

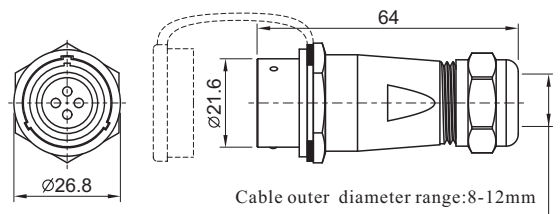
1: solder(default,no mark), 2: screw, 3: crimp  
Colour:  
B: Black  
S: Silver  
L: Blue (special order)  
G: Green (special order)  
R: Red (special order)



### In-line cable connector

Mate with SF2010

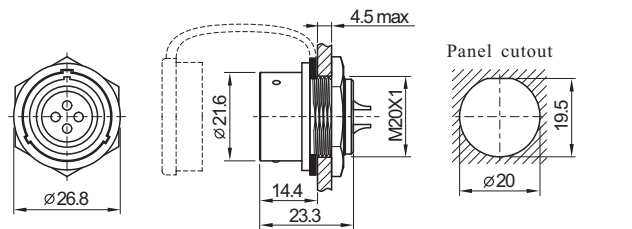
SA2011/P --- SA2011/S ---



### Rear-nut mount

Mate with SA2010

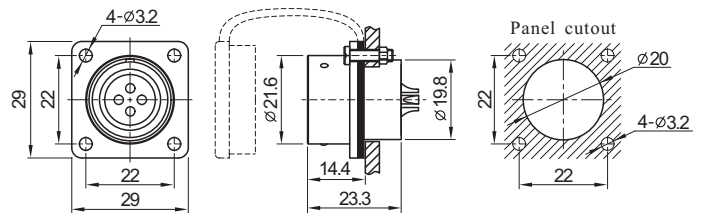
SA2012/P --- SA2012/S ---



### Square flange

Mate with SA2010

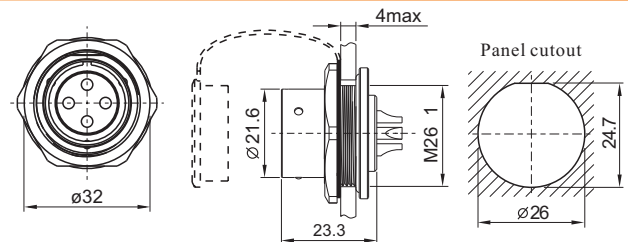
SA2013/P --- SA2013/S ---



### Front-nut mount

Mate with SA2010

SA2015/P --- SA2015/S ---



## Solder contact spec

★ Crimp contact spec [CLICK](#) >    ★ Screw contact spec [CLICK](#) >

Number of contact	2	3	4	5	6	6B	7	8	9	12	15
Male contact face view											
Rated current (A)	25	25	25	10	25 5	30 5	10	10	5	5	5
Contact diameter(mm)	ø2.5X2	ø2.5X3	ø2.5X4	ø1.5X5	ø2.5X4 ø1X2	ø3X2 ø1X4	ø1.5X7	ø1.5X8	ø1X9	ø1X12	ø1X15
Rated voltage (AC.V)	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	1200	1200	1200
Contact resistance (mΩ)	1	1	1	2.5	1 5	1 5	2.5	2.5	5	5	5
Termination	solder / screw	solder / screw	solder / screw	solder	solder	solder	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	≤4/11 ≤0.75/18	≤2/14	≤2/14	≤0.75/18	≤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	/	/	/	/	/	/	/	/



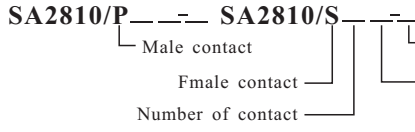
# SA28 Series

**SA  
28**

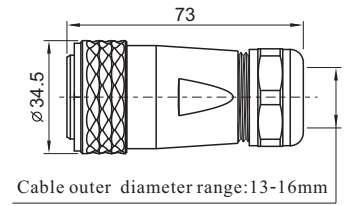
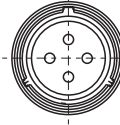


## Cable connector

Mate with SA2811, SA2812, SA2813, SA2815

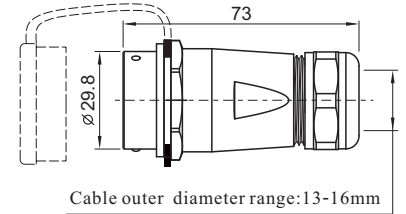
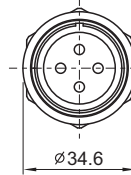


1: solder(default,no mark), 2: screw, 3: crimp  
 Colour:  
 B: Black  
 S: Silver  
 L: Blue (special order)  
 G: Green (special order)  
 R: Red (special order)



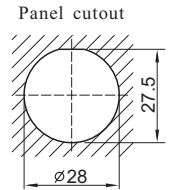
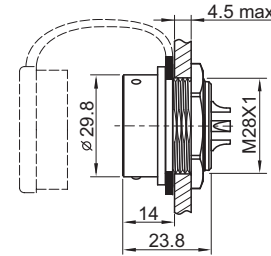
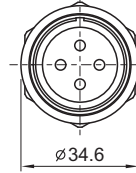
## In-line cable connector

Mate with SA2810



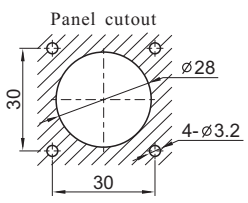
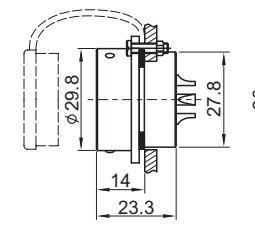
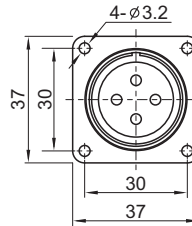
## Rear-nut mount

Mate with SA2810



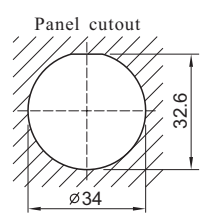
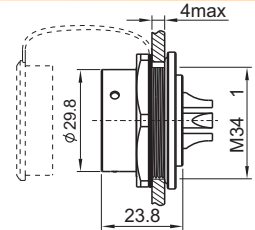
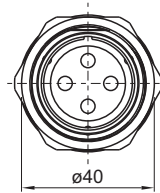
## Square flange

Mate with SA2810



## Front-nut mount

Mate with SA2810



## Solder contact spec

★ Crimp contact spec [CLICK >](#)

★ Screw contact spec [CLICK >](#)

Number of contact	2	3	4	7	8	8B	9	10	10B	12	16	17	20	24	26	35
Male contact face view																
Rated current (A)	50	50	25	25	25	60, 5	25, 5	25	10	10	10	10	5	5	5	5
Contact diameter(mm)	φ3.5X2	φ3.5X3	φ2.5X4	φ2.5X7	φ2.5X8	φ5X2 φ1X6	φ2.5X4 φ1X5	φ2.5X10	φ1.5X10	φ1.5X12	φ1.5X16	φ1.5X17	φ1X20	φ1X24	φ1X26	φ1X35
Rated voltage (AC.V)	500	500	500	500	500	500 400	500	500	500	500	500	500	400	400	400	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1200	1200	1200	1200
Contact resistance(mΩ)	0.5	0.5	1	1	1	5, 0.5	1, 5	1	2.5	2.5	2.5	2.5	5	5	5	5
Termination	solder / screw	solder / screw	solder / screw	solder / screw	solder / screw	solder / screw	solder / screw	solder / screw	solder / screw	solder	solder	solder	solder	solder	solder	solder
Wire size (mm <sup>2</sup> /AWG)	≤10/7	≤10/7	≤4/11	≤4/11	≤4/11	≤16/5 ≤0.75/18	≤4/11 ≤0.75/18	≤4/11	≤2/14	≤2/14	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18
Wire size for screw termination	≤6/10	≤6/10	≤1.5/15	≤1.5/15	≤1.5/15	/	/	≤1.5/15	/	/	/	/	/	/	/	/







**IP67**

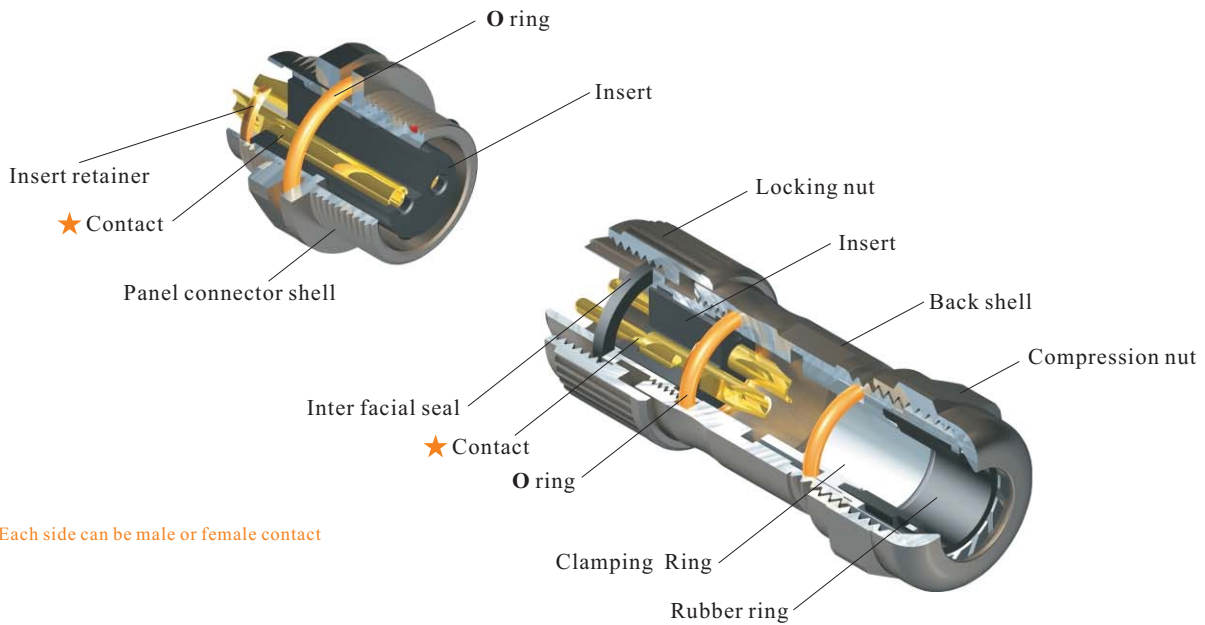
**SA Series**



# IP67



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



★ Each side can be male or female contact

## Material and spec

Coupling	Threaded coupling
Shell material	Zinc alloy with black nickel plating
Insert material	PPS, max temperature 260 °C
Contact material	Brass with gold plating
Termination	Solder
Cable outer diameter range	5-8mm
IP rating	IP67
Mating cycle	500
Temperature range	-40°C~+85°C
Insulation resistance	2000MΩ



## ST12 Series

**ST  
12**



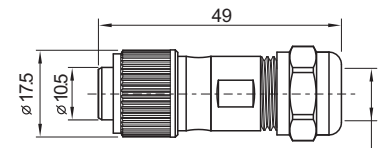
ST1210 / P

ST1210 / S

Male contact

### Cable connector

Mate with ST1211, ST1212, ST1213, ST1214



Cable outer diameter range: 5-8mm

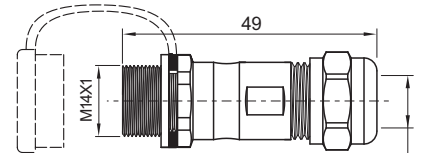


ST1211 / P

ST1211 / S

### In-line cable connector

Mate with ST1210



Cable outer diameter range: 5-8mm

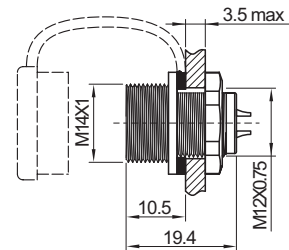
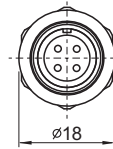


ST1212 / P

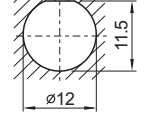
ST1212 / S

### Rear-nut mount

Mate with ST1210



Panel cutout



Number of contact

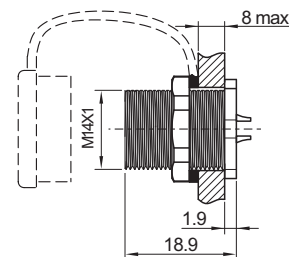
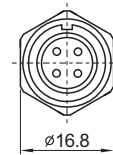


ST1213 / P

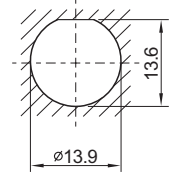
ST1213 / S

### Front-nut mount

Mate with ST1210



Panel cutout

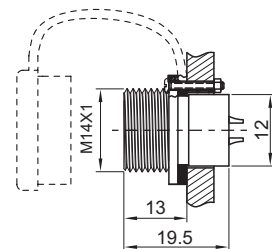
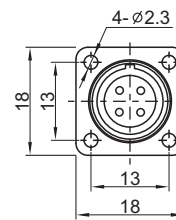


ST1214 / P

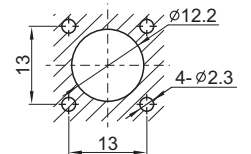
ST1214 / S

### Square flange

Mate with ST1210



Panel cutout



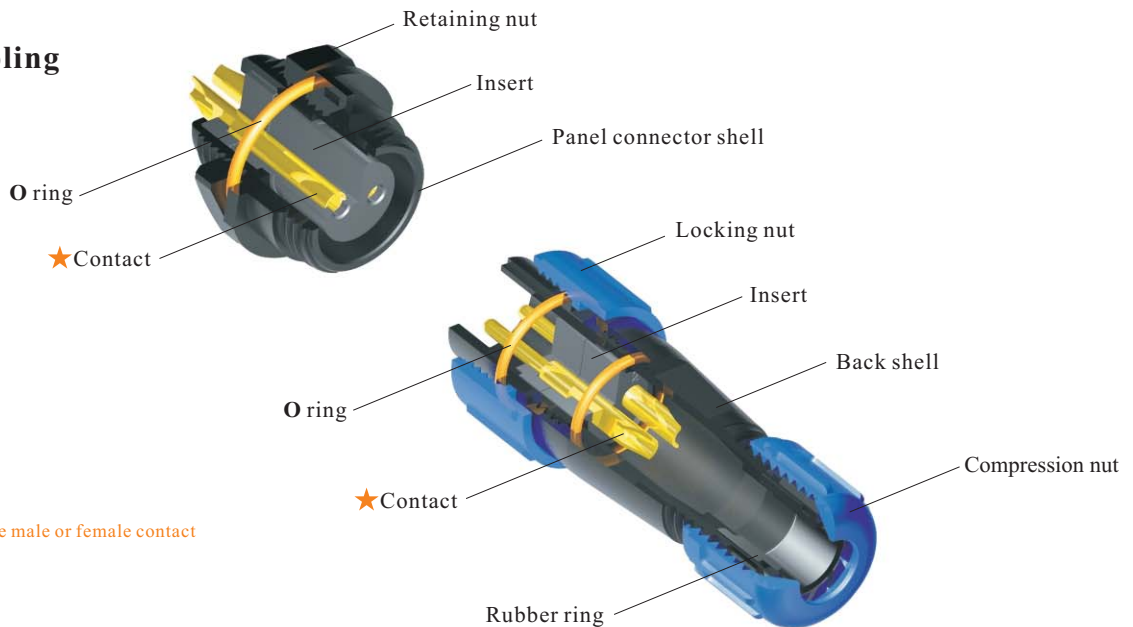
## Solder contact spec

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)	Ø1.6X2	Ø1.6X3	Ø1X4	Ø1X5	Ø1X6	Ø1X7	Ø0.7X9
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

**IP68**



- **SP Series IP68**
- **Threaded coupling**



★ Each side can be male or female contact

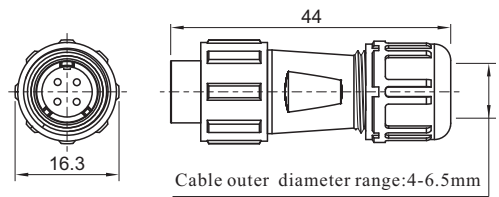
## Material and spec

Coupling	Threaded	
Shell material	PC, Nylon66, fire resistance: V-0	
Insert material	PPS, max temperature 260 °C	
Contact material	Brass with gold plating	
Termination	Solder: SP13, SP17, SP21, SP29 Crimp: SP17, SP21, SP29 Screw: SP21, SP29 (ø2.5, ø3, ø3.5mm contact)	
Cable outer diameter range	Sp11: 4-6.5 SP13 I: 4-6.5mm(default,no mark) , II: 5-8mm SP17: 6-10mm	SP21: I: 4.5-7mm, II: 7-12mm(default,no mark) SP29: 13-16mm
IP rating	IP68	
Mating cycle	500	
Temperature range	-40°C~+85°C	
Insulation resistance	2000 MΩ	

**SP11 Series**



**Cable connector**  
Mate with SP1111, SP1112



SP1110/P

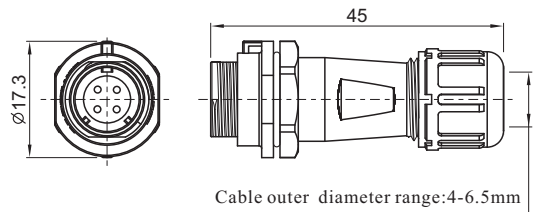
SP1110/S

Male contact

Number of contact  
Female contact



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

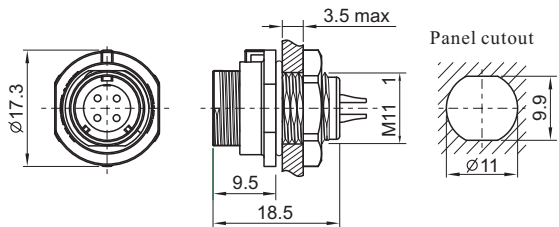


SP1111/P

SP1111/S



**Rear-nut mount**  
Mate with SP1110



SP1112/P

SP1112/S

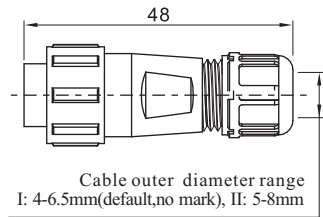
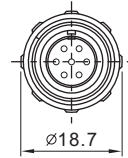
**Solder contact spec**

Number of contact	2	3	4	5
Male contact face view				
Rated current (A)	5	5	3	3
Contact diameter(mm)	Ø1×2	Ø1×3	Ø0.7×4	Ø0.7×5
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(mm²/AWG)	≤0.75/18	≤0.75/18	≤0.5/20	≤0.5/20

SP13 Series



**Cable connector**  
Mate with SP1311,SP1312



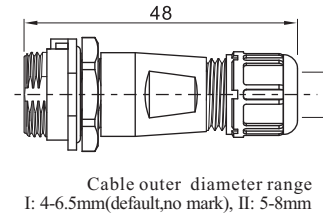
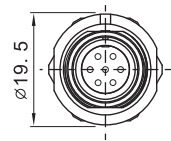
SP1310 / P — — — SP1310 / S

Male contact

- (CU):
- Colour: All black
- Cable outer diameter  
I: 4-6.5mm(default, no mark), II: 5-8mm
- Number of contact
- Female contact



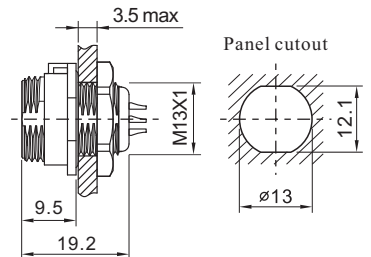
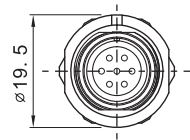
**In-line cable connector**  
Mate with SP1310



SP1311 / P — — — SP1311 / S — — —



**Rear-nut mount**  
Mate with SP1310



SP1312 / P — — — SP1312 / S

- (CU):
- Number of contact

**Solder contact spec**

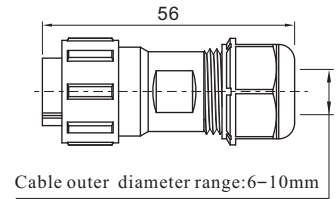
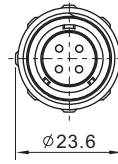
Number of contact	2	3	4	5	6	7	9
Male contact face view							
Rated current (A)	13	13	5	5	5	5	3
Contact diameter (mm)	Ø1.6X2	Ø1.6X3	Ø1X4	Ø1X5	Ø1X6	Ø1X7	Ø0.7X9
Rated voltage (AC.V)	250	250	200 300	180 300	125 300	125 300	125
Test voltage(AC.V) 1 min	1500	1500	1500	1000	1000	1000	1000
Contact resistance (mΩ)	2.5	2.5	5	5	5	5	10
Wire size (mm <sup>2</sup> / AWG)	≤2 / 14	≤2 / 14	≤0.75 / 18 ≤0.5 / 20	≤0.75 / 18 ≤0.5 / 20	≤0.75 / 18 ≤0.5 / 20	≤0.75 / 18 ≤0.5 / 20	≤0.5 / 20



SP17 Series



**Cable connector**  
Mate with SP1711,SP1712

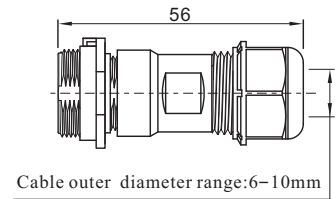
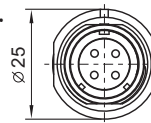


SP1710 / P \_ \_ \_ Male contact  
SP1710 / S \_ \_ \_ Female contact

1: solder(default, no mark), 3: crimp  
Number of contact  
Female contact



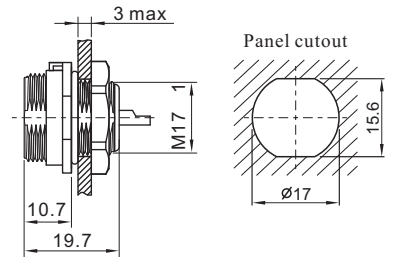
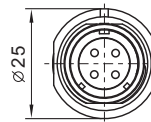
**In-line cable connector**  
Mate with SP1710



SP1711 / P \_ \_ \_ Male contact  
SP1711 / S \_ \_ \_ Female contact



**Rear-nut mount**  
Mate with SP1710



SP1712 / P \_ \_ \_ Male contact  
SP1712 / S \_ \_ \_ Female contact

Solder contact spec

★ Crimp contact spec [CLICK](#)

Number of contact	2	3	4	2B	3B	4B	5	7	9	10
Male contact face view										
Rated current (A)	10	10	5	15	15	15	5	5	5	5
Contact diameter(mm)	∅1.5X2	∅1.5X3	∅1X4	∅2X2	∅2X3	∅2X4	∅1X5	∅1X7	∅1X9	∅1X10
Rated voltage (AC.V)	500	500	500	500	500	500	500	400	400	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500	1500	1200	1200	1200
Contact resistance(mΩ)	2.5	2.5	5	2.5	2.5	2.5	5	5	5	5
Wire size(mm <sup>2</sup> /AWG)	≤2/14	≤2/14	≤0.75/18	≤2/14	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18

# SP21 Series

**SP  
21**



## Cable connector

Mate with SP2111, SP2112, SP2113

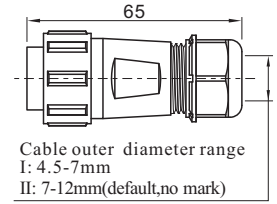
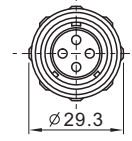
SP2110 / P --- Male contact  
 SP2110 / S --- Female contact

(U): (CU):   
 Colour: All black

1: solder(default,no mark), 2: screw, 3: crimp

Cable outer diameter: I: 4.5-7mm II: 7-12mm(default,no mark)

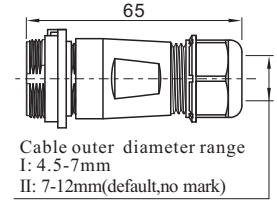
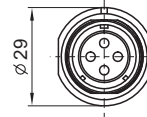
Number of contact



## In-line cable connector

Mate with SP2110, SP2116

SP2111 / P --- SP2111 / S ---

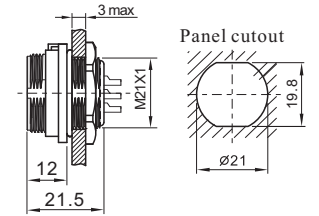
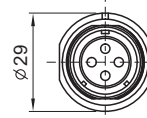


## Rear-nut mount

Mate with SP2110, SP2116

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

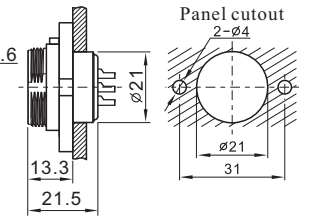
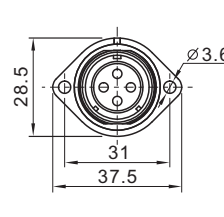
(U): (CU):   
 1:solder(default,no mark), 2:screw, 3:crimp



## 2-hole flange

Mate with SP2110, SP2116

SP2113 / P --- SP2113 / S ---

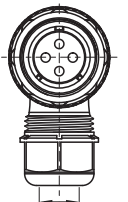
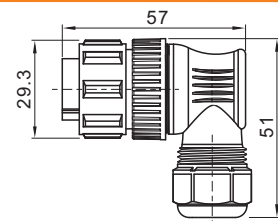


## Angled cable connector

Mate with SP2111, SP2112, SP2113

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

1: solder(default,no mark), 2: screw, 3: crimp  
 Cable outer diameter: I: 4.5-7mm II: 7-12mm(default,no mark)



Cable outer diameter range  
 I: 4.5-7mm, II: 7-12mm(default,no mark)

## Solder contact spec

★ [Crimp contact spec](#) CLICK >

★ [Screw contact spec](#) CLICK >

Number of contact	2	3	4	5	5B	5C	6	6B	7	8	9	12	15		
Male contact face view															
Rated current (A)	30 	20 	30 	20 	30 	20 	30 5	15	25 5	30 5	15	10	5	5	5
Contact diameter (mm)	∅3X2	∅3X3	∅3X4	∅3X5	∅3X2 ∅1X3	∅2X5	∅2.5X4 ∅1X2	∅3X2 ∅1X4	∅2X7	∅1.5X10	∅1X9	∅1X12	∅1X15		
Rated voltage (AC.V)	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	1200	1200	1200		
Contact resistance (mΩ)	1	1	1	1	1 5	2.5	1 5	1 5	2.5	2.5	5	5	5		
Termination	solder / screw	solder / screw	solder / screw	solder / screw	solder	solder / screw	solder	solder	solder / screw	solder	solder	solder	solder		
Wire size for solder (mm <sup>2</sup> / AWG)	≤4/12	≤4/12	≤4/12	≤4/12	≤4/12 ≤0.75/18	≤2/14	≤4/12 ≤0.75/18	≤4/12 ≤0.75/18	≤2/14	≤2/14	≤0.75/18	≤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



### Cable connector

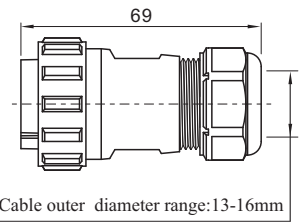
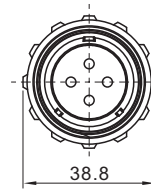
Mate with SP2911, SP2912, SP2913

SP2910 / P

SP2910 / S

Male contact

- 1: solder (default, no mark), 2: screw, 3: crimp
- Number of contact
- Female contact

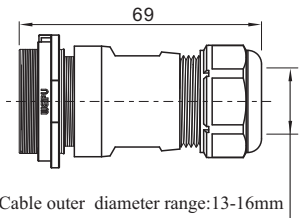
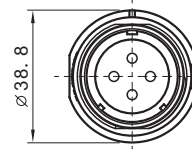


SP2911 / P

SP2911 / S

### In-line cable connector

Mate with SP2910



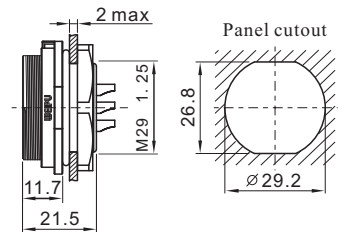
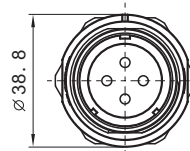
SP2912 / P

SP2912 / S

### Rear-nut mount

Mate with SP2910

- 1: solder (default, no mark), 2: screw, 3: crimp
- Number of contact

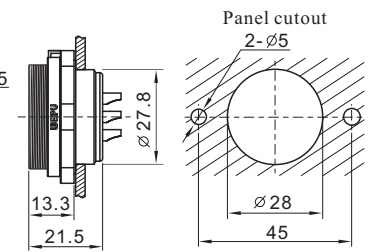
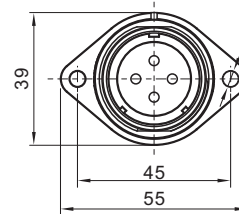


SP2913 / P

SP2913 / S

### 2-hole flange

Mate with SP2910



## Solder contact spec

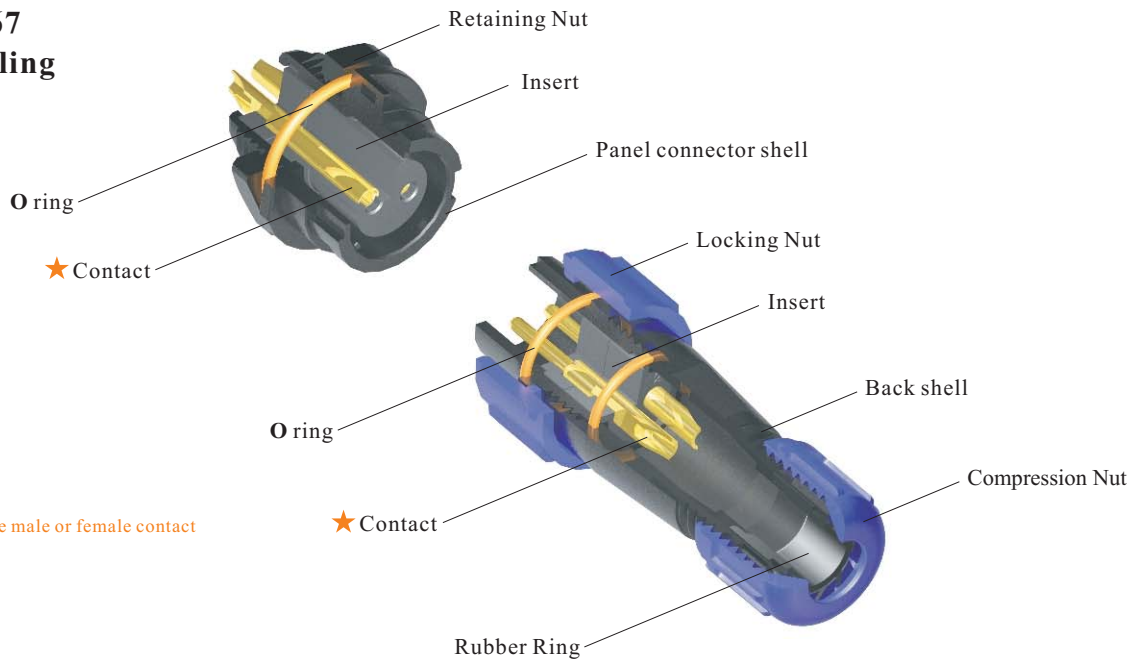
★ Crimp contact spec [CLICK >](#)

★ Screw contact spec [CLICK >](#)

Number of contact	2	3	4	7	8	8B	9	10	10B	12	16	17	20	24	26	35
Male contact face view																
Rated current (A)	50	50	25	25	25	60, 5	25, 5	25	10	10	10	10	5	5	5	5
Contact diameter (mm)	Ø3.5X2	Ø3.5X3	Ø2.5X4	Ø2.5X7	Ø2.5X8	Ø5X2 Ø1X6	Ø2.5X4 Ø1X5	Ø2.5X10	Ø1.5X10	Ø1.5X12	Ø1.5X16	Ø1.5X17	Ø1X20	Ø1X24	Ø1X26	Ø1X35
Rated voltage (AC.V)	500	500	500	500	500	500 400	500	500	500	500	500	500	400	400	400	400
Test voltage (AC.V) 1 min	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1200	1200	1200	1200
Contact resistance (mΩ)	0.5	0.5	1	1	1	5, 0.5	1, 5	1	2.5	2.5	2.5	2.5	5	5	5	5
Termination	solder / screw	solder / screw	solder / screw	solder / screw	solder / screw	solder	solder	solder / screw	solder	solder	solder	solder	solder	solder	solder	solder
Wire size (mm <sup>2</sup> /AWG)	≤10/7	≤10/7	≤4/11	≤4/11	≤4/11	≤16/5 ≤0.75/18	≤4/11 ≤0.75/18	≤4/11	≤2/14	≤2/14	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18
Wire size for screw termination	≤6/10	≤6/10	≤1.5/15	≤1.5/15	≤1.5/15	/	/	≤1.5/15	/	/	/	/	/	/	/	/

IP67

- SY Series IP67
- Bayonet coupling



## Material and spec

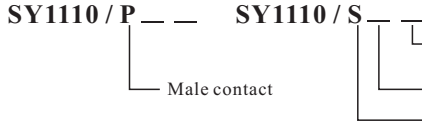
Coupling	Bayonet
Shell material	PC, Nylon66, fire resistance: V-0
Insert material	PPS, max temperature 260 °C
Contact material	Brass with gold plating
Termination	Solder: SY13, SY17, SY21 Crimp: SY17 Screw: SY21 (ø3mm contact)
Cable outer diameter range	SY11: 4-6.5mm    SY13 I: 4-6.5mm(default,no mark), II: 5-8mm    SY17: 6-10mm SY21: I: 4.5-7mm, II: 7-12mm(default,no mark)    SY29: 13-16mm
IP rating	IP67
Mating cycle	500
Temperature range	-40°C~+85°C
Insulation resistance	2000 MΩ



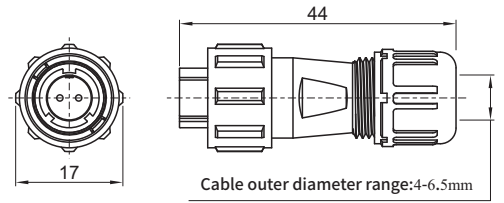
**SY11 Series**



**Cable connector**  
Mate with SY1111, SY1112



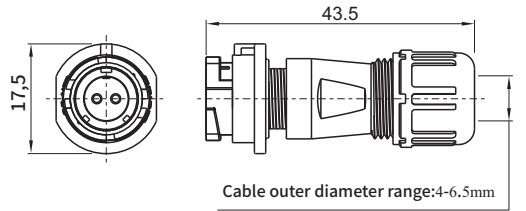
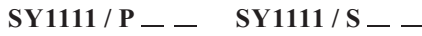
Cable outer diameter  
4-6.5mm  
Number of contact  
Female contact



Cable outer diameter range:4-6.5mm



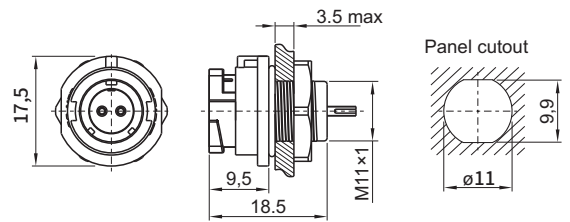
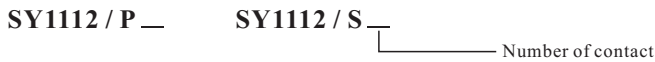
**In-line cable connector**  
Mate with SY1110



Cable outer diameter range:4-6.5mm



**Rear-nut mount**  
Mate with SY1110



Panel cutout

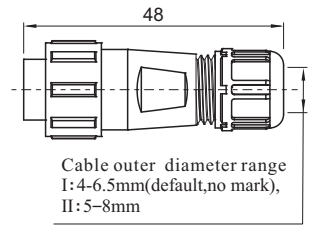
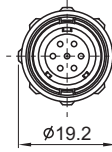
**Solder contact spec**

Number of contact	2	3	4	5
Male contact face view				
Rated current (A)	5	5	3	3
Contact diameter(mm)	∅1×2	∅1×3	∅0.7×4	∅0.7×5
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

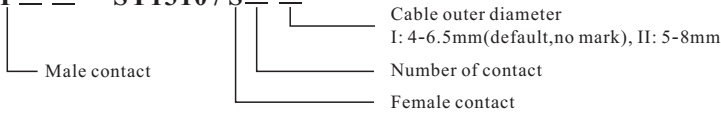
## SY13 Series



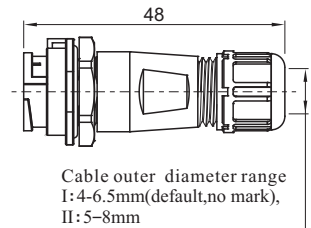
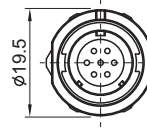
**Cable connector**  
Mate with SY1311, SY1312



SY1310 / P    SY1310 / S



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

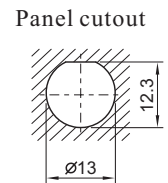
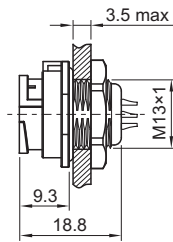
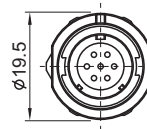


SY1311 / P    SY1311 / S

Cable outer diameter range  
I: 4-6.5mm(default,no mark),  
II: 5-8mm



**Rear-nut mount**  
Mate with SY1310



SY1312 / P    SY1312 / S

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)	Ø1.6X2	Ø1.6X3	Ø1X4	Ø1X5	Ø1X6	Ø1X7	Ø0.7X9
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

**SY17 Series**



SY1710 / P \_ \_

SY1710 / S \_ \_

Male contact

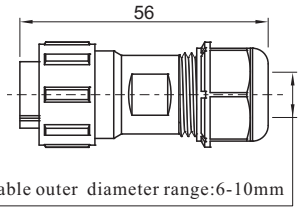
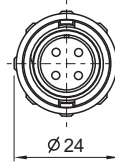
**Cable connector**

Mate with SY1711,SY1712

1: solder(default,no mark), 3: crimp

Number of contact

Female contact

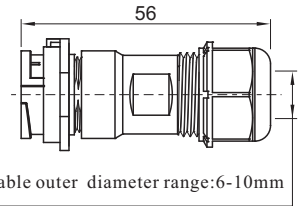
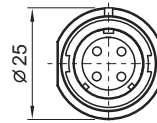


SY1711 / P \_ \_

SY1711 / S \_ \_

**In-line cable connector**

Mate with SY1710

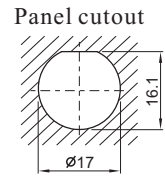
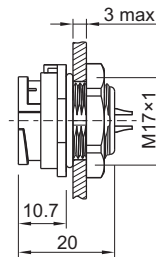
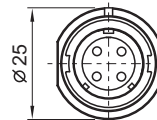


SY1712 / P \_

SY1712 / S \_

**Rear-nut mount**

Mate with SY1710



**Solder contact spec**

★ [Crimp contact spec](#) CLICK >

Number of contact	2	3	4	2B	3B	4B	5	7	9	10
Male contact face view										
Rated current (A)	10	10	5	15	15	15	5	5	5	5
Contact diameter(mm)	∅1.5X2	∅1.5X3	∅1X4	∅2X2	∅2X3	∅2X4	∅1X5	∅1X7	∅1X9	∅1X10
Rated voltage (AC.V)	500	500	500	500	500	500	500	400	400	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500	1500	1200	1200	1200
Contact resistance (mΩ)	2.5	2.5	5	2.5	2.5	2.5	5	5	5	5
Wire size (mm <sup>2</sup> /AWG)	≤2/14	≤2/14	≤0.75/18	≤2/14	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18

# SY21 Series



## Cable connector

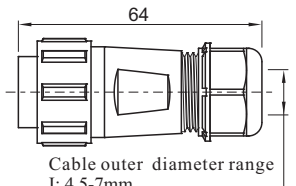
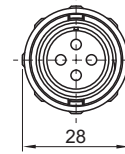
Mate with SY2111, SY2112, SY2113

SY2110 / P \_ \_ \_ SY2110 / S \_ \_ \_

Male contact  
Female contact  
Number of contact

1: solder(default,no mark), 2: screw, 3: crimp

Cable outer diameter: I: 4.5-7mm, II: 7-12mm(default,no mark)



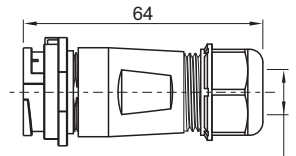
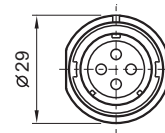
Cable outer diameter range  
I: 4.5-7mm,  
II: 7-12mm(default,no mark)



## In-line cable connector

Mate with SY2110, SY2116

SY2111 / P \_ \_ \_ SY2111 / S \_ \_ \_



Cable outer diameter range  
I: 4.5-7mm, II: 7-12mm(default,no mark)



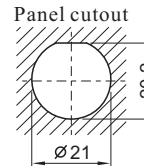
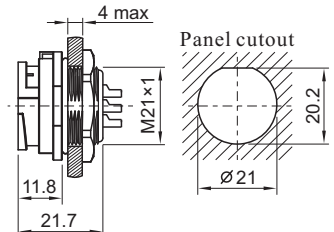
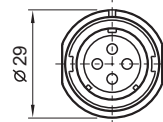
## Rear-nut mount

Mate with SY2110, SY2116

SY2112 / P \_ \_ \_ SY2112 / S \_ \_ \_

Number of contact

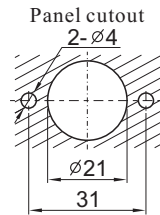
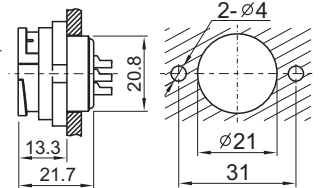
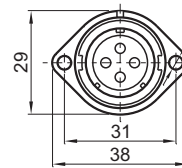
1:solder(default,no mark), 2: screw, 3: crimp



## 2-hole flange

Mate with SY2110, SY2116

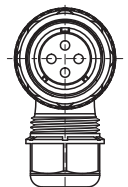
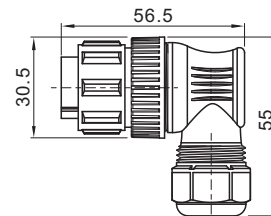
SY2113 / P \_ \_ \_ SY2113 / S \_ \_ \_



## Angled cable connector

Mate with SY2111, SY2112, SY2113

SY2116 / P \_ \_ \_ SY2116 / S \_ \_ \_



Cable outer diameter range  
I: 4.5-7mm,  
II: 7-12mm (default,no mark)

## Solder contact spec

★ Crimp contact spec [CLICK >](#)

★ Screw contact spec [CLICK >](#)

Number of contact	2	3	4	5	5B	5C	6	6B	7	8	9	12	15
Male contact face view													
Rated current (A)	30	30	30	30	30 5	15	25 5	30 5	15	10	5	5	5
Contact diameter (mm)	ø3X2	ø3X3	ø3X4	ø3X5	ø3X2 ø1X3	ø2X5	ø2.5X4 ø1X2	ø3X2 ø1X4	ø2X7	ø1.5X10	ø1X9	ø1X12	ø1X15
Rated voltage (AC.V)	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	1200	1200	1200
Contact resistance (mΩ)	1	1	1	1	1 5	2.5	1 5	1 5	2.5	2.5	5	5	5
Termination	solder / screw	solder / screw	solder / screw	solder / screw	solder	solder	solder	solder	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	≤4/11 ≤0.75/18	≤4/11 ≤0.75/18	≤2/14	≤2/14	≤0.75/18	≤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	/	/	/	/	/	/	/	/	/



## SY29 Series

**SY  
29**

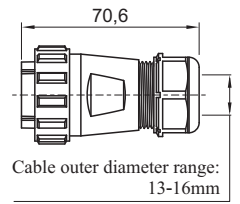
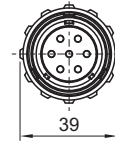


### Cable connector

Mate with SY2911, SY2912, SY2913

SY2910 / P \_ \_ \_ SY2910 / S \_ \_

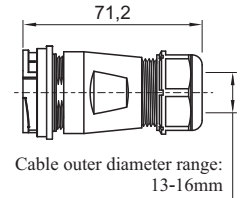
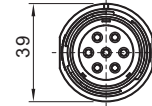
Male contact  
Female contact  
Number of contact  
1: solder(default,no mark), 2: screw, 3: crimp



### In-line cable connector

Mate with SY2910

SY2911 / P \_ \_ \_ SY2911 / S \_ \_

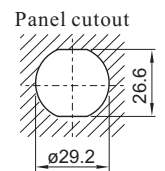
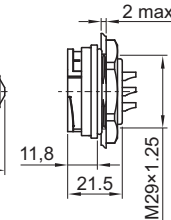
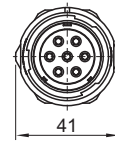


### Rear-nut mount

Mate with SY2910

SY2912 / P \_ \_ \_ SY2912 / S \_ \_

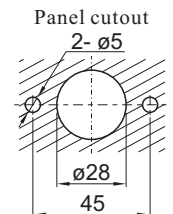
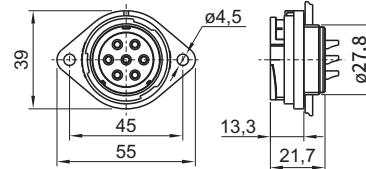
1:solder(default,no mark), 2: screw, 3: crimp  
Number of contact



### 2-hole flange

Mate with SY2910

SY2913 / P \_ \_ \_ SY2913 / S \_ \_



## Solder contact spec

★ Crimp contact spec [CLICK >](#)

★ Screw contact spec [CLICK >](#)

Number of contact	2	3	4	7	8	8B	9	10	10B	12	16	17	20	24	26	35
Male contact face view																
Rated current (A)	50	50	25	25	25	60, 5	25, 5	25	10	10	10	10	5	5	5	5
Contact diameter(mm)	ø3.5X2	ø3.5X3	ø2.5X4	ø2.5X7	ø2.5X8	ø5X2 ø1X6	ø2.5X4 ø1X5	ø2.5X10	ø1.5X10	ø1.5X12	ø1.5X16	ø1.5X17	ø1X20	ø1X24	ø1X26	ø1X35
Rated voltage (AC.V)	500	500	500	500	500	500 400	500	500	500	500	500	500	400	400	400	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1200	1200	1200	1200
Contact resistance(mΩ)	0.5	0.5	1	1	1	5, 0.5	1, 5	1	2.5	2.5	2.5	2.5	5	5	5	5
Termination	solder / screw	solder / screw	solder / screw	solder / screw	solder / screw	solder	solder	solder / screw	solder	solder	solder	solder	solder	solder	solder	solder
Wire size (mm <sup>2</sup> /AWG)	≤10/7	≤10/7	≤4/11	≤4/11	≤4/11	≤16/5 ≤0.75/18	≤4/11 ≤0.75/18	≤4/11	≤2/14	≤2/14	≤2/14	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18
Wire size for screw termination	≤6/10	≤6/10	≤1.5/15	≤1.5/15	≤1.5/15	/	/	≤1.5/15	/	/	/	/	/	/	/	/



**IP68**



**SP Series**


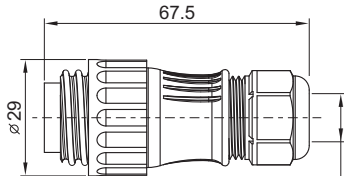



IP67


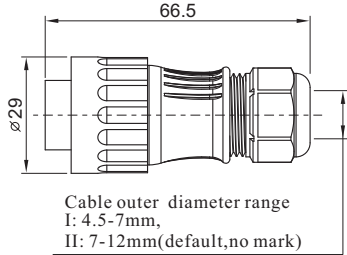


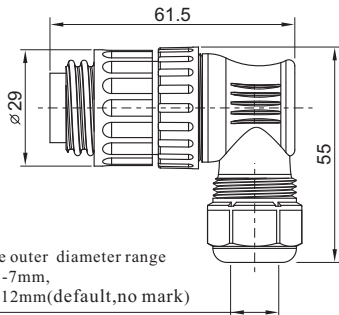


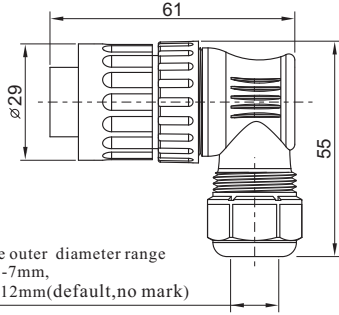


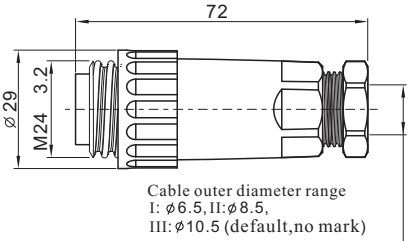




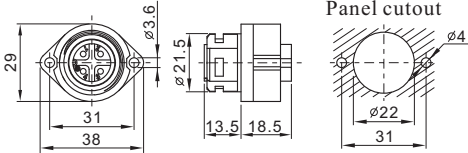

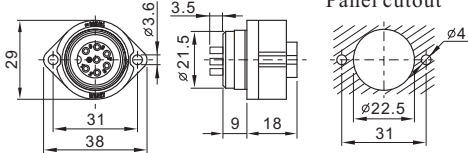

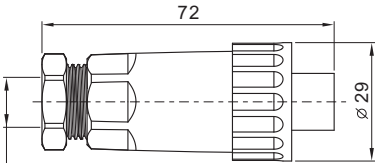

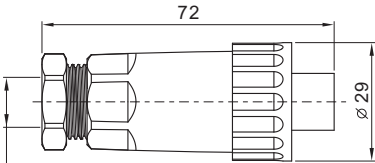

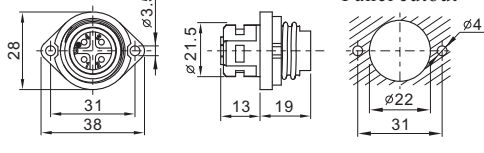

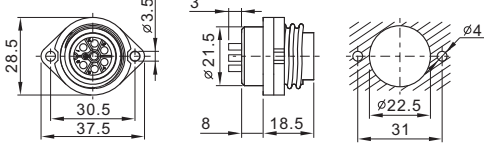

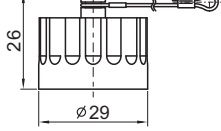

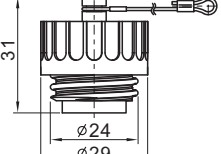
● WA22Series IP67

Material and spec		
Number of contact	3+PE	6+PE
Contact diameter (mm)	ø2	ø1.5
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
<p>WA22J4TK2</p> 	<p>3+PE male cable connector with short back shell, screw termination</p>	 <p>Cable outer diameter range I: 4.5-7mm, II: 7-12mm(default,no mark)</p>
<p>WA22J7TK1</p> 	<p>6+PE male cable connector with short back shell, solder termination</p>	



Part number	Description	Drawing
<b>WA22K4TK2</b> 	<b>3+PE</b> female cable connector with short back shell, screw termination	
<b>WA22K7TK1</b> 	<b>6+PE</b> female cable connector with short back shell, solder termination	
<b>WA22J4TL2</b> 	<b>3+PE</b> male cable connector with angled back shell, screw termination	
<b>WA22J7TL1</b> 	<b>6+PE</b> male cable connector with angled back shell, solder termination	
<b>WA22K4TL2</b> 	<b>3+PE</b> female cable connector with angled back shell, screw termination	
<b>WA22K7TL1</b> 	<b>6+PE</b> female cable connector with angled back shell, solder termination	
<b>WA22J4TE2</b> 	<b>3+PE</b> male cable connector , screw termination	
<b>WA22J7TE1</b> 	<b>6+PE</b> male cable connector , solder termination	

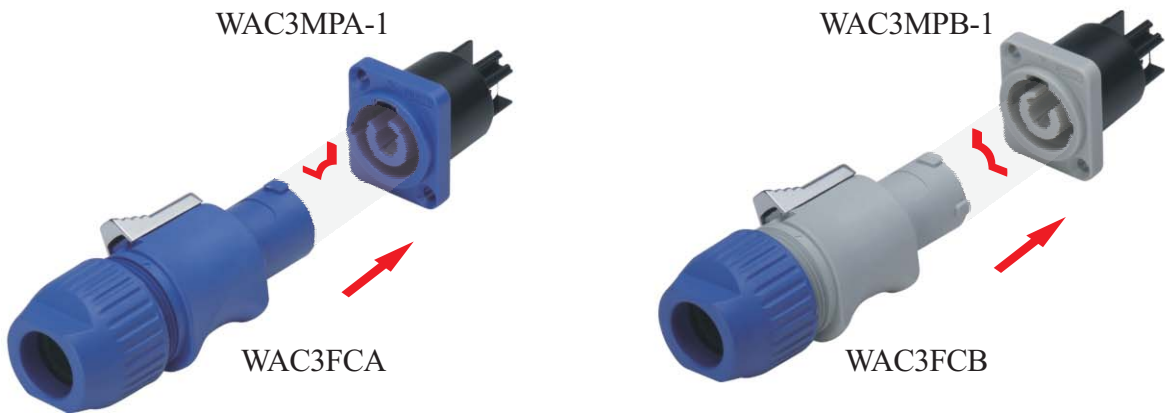
Part number	Description	Drawing
<b>WA22K4Z2</b> 	<b>3+PE</b> female panel connector, screw termination	
<b>WA22K7Z1</b> 	<b>6+PE</b> female panel connector, solder termination	
<b>WA22K4ZE2</b> 	<b>3+PE</b> female cable connector, screw termination	
<b>WA22K7ZE1</b> 	<b>6+PE</b> female cable connector, solder termination	 <p>Cable outer diameter range I: <math>\phi 6.5</math>, II: <math>\phi 8.5</math>, III: <math>\phi 10.5</math> (default, no mark)</p>
<b>WA22J4Z2</b> 	<b>3+PE</b> male panel connector, screw termination	
<b>WA22J7Z1</b> 	<b>6+PE</b> male panel connector, solder termination	
<b>WA22G1</b> 	Cap 1	
<b>WA22G2</b> 	Cap 2	



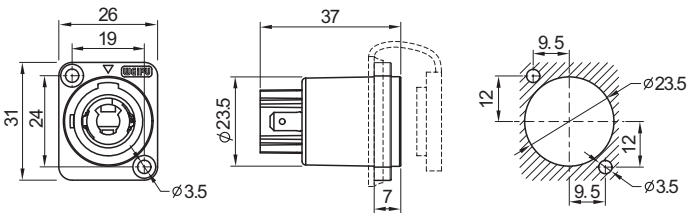
**IP 65**



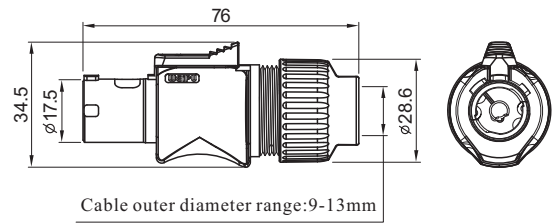
● **WAC3 Series**



● **Receptacle**



● **Plug**



**Material and spec**

Coupling	Bayonet
Shell	Plug: Nylon66 Socket: PC
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 )	2000
Mating cycle	1000
Temperature range	-40℃~+85℃
IP range	IP65
Termination	Plug: screw, Receptacle: 3/16" flat tab terminals



**IP65**

**WAC3 Series**





**RJ  
45F**

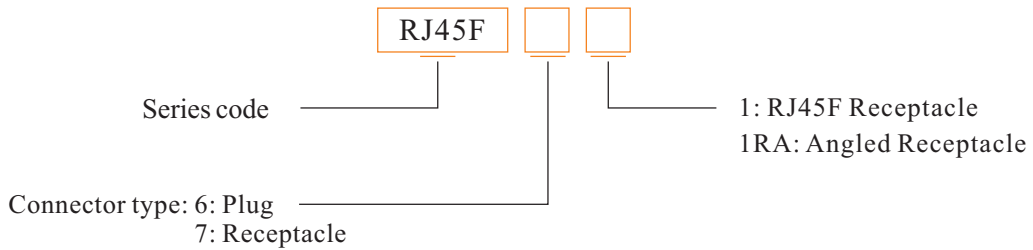
**IP67**



● **RJ45F Series IP67**

RJ45F connector is used to connect standard Ethernet Class D /Cat.5e and Class E/cat 6 (10 Base T , 100 base TX , 1000 Base T net works ) in outdoor or water proof harsh working environment . no need soldering , easy to connect , it is widely use in communications , LED boards , security monitoring , automation control etc.

**Part number system**



**Material and spec**

Coupling	Bayonet
Shell material	PC, fire resistance: V-0
IP rating	IP67
Cable out diameter range	I: 5-6mm (default, no mark) , II: 6-7mm
Mating cycle	500
Temperature range	-40°C ~ +85°C

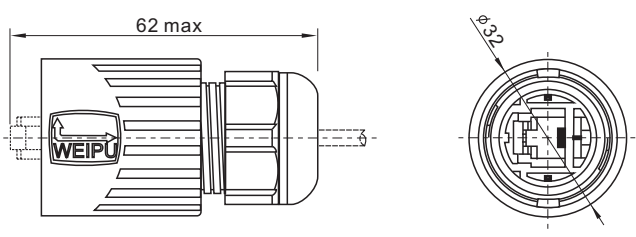


RJ  
45F

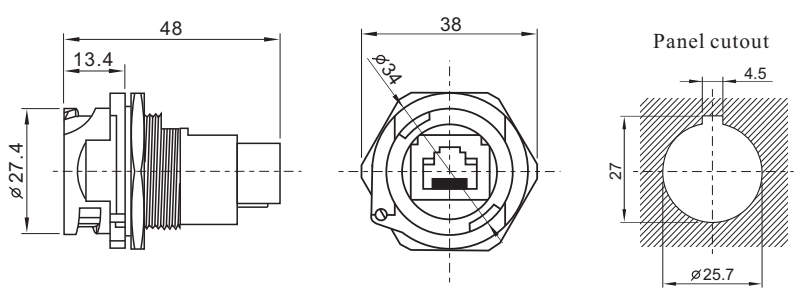
IP67



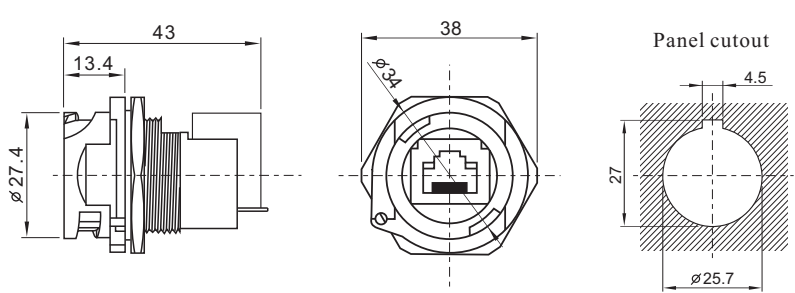
- RJ45F plug: RJ45F6 — Cable outer diameter  
I: 5-6mm, II: 6-7mm



- RJ45F Receptacle: RJ45F71



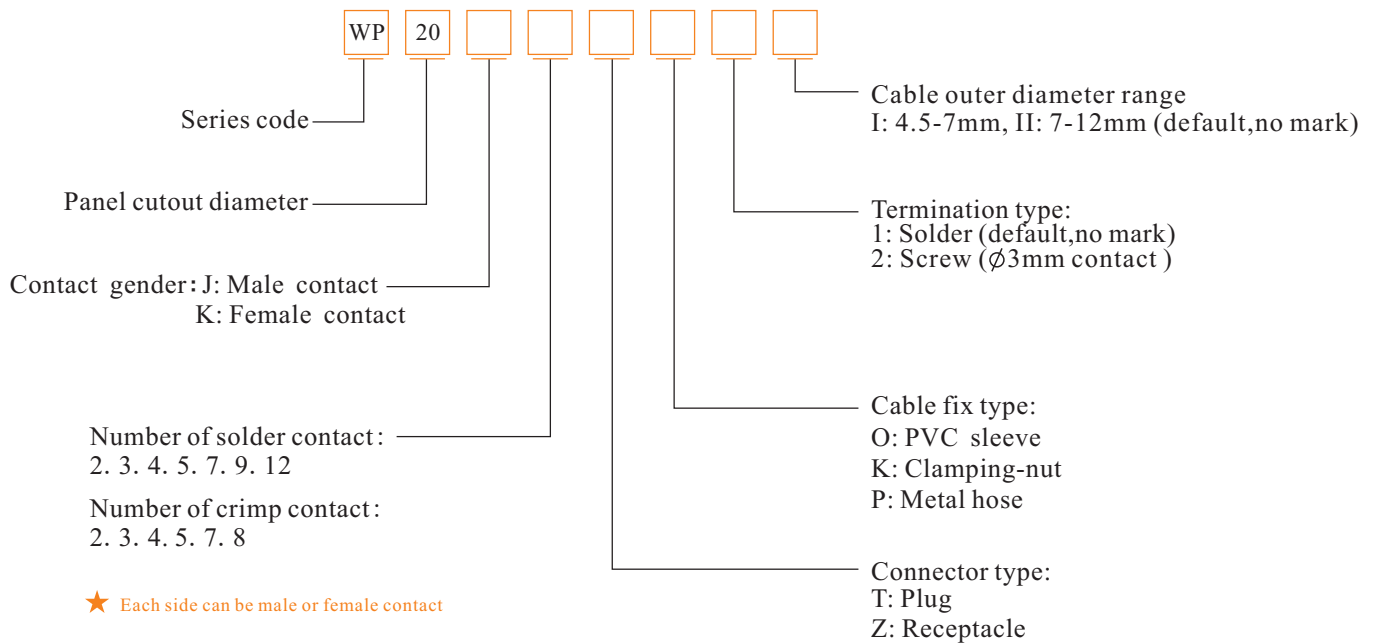
- Angled Receptacle: RJ45F71RA





● WP Series

**Part number system**



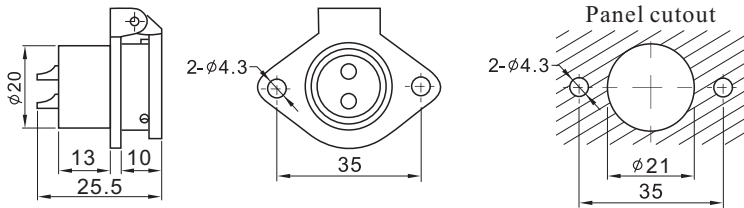
**Material and spec**

Coupling	Bayonet
Shell	Nylon 66 / Zinc alloy
Insert material	PPS, max temperature 260 °C
Contact material	Brass
Contact plating	Gold Plating
Termination	Solder: ∅1mm, ∅2mm, ∅3mm contact Screw: ∅3mm contact
Mating cycle	500
Temperature range	-40°C ~ +85°C

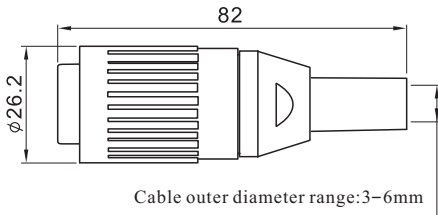




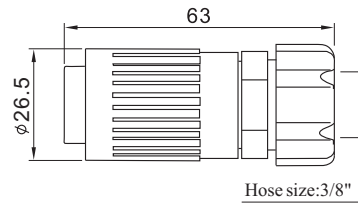
● Receptacle: Z IP44



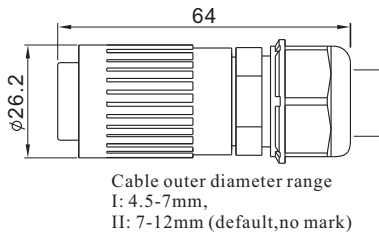
● PVC sleeve : TO



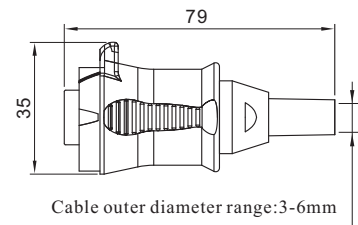
● Metal hose: TP



● Plastic clamping-nut: TK IP55



● Without bayonet: TO-G



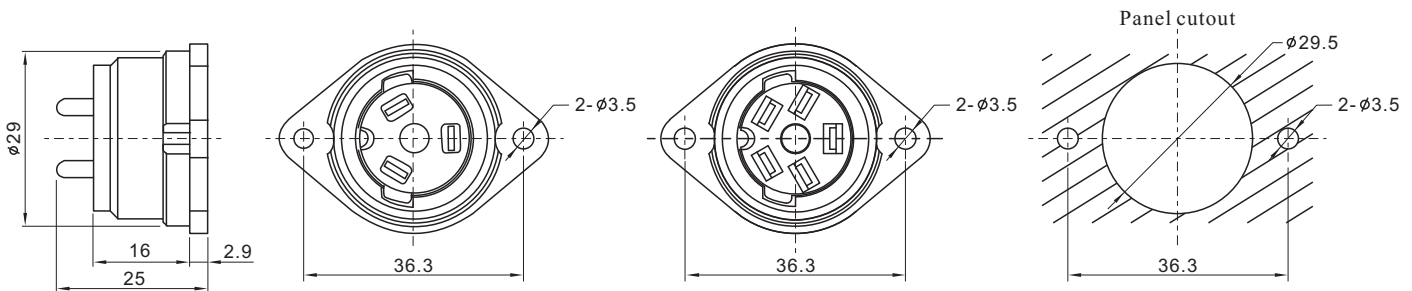
**Solder contact spec**

★ [Crimp contact spec](#) CLICK >    ★ [Screw contact spec](#) CLICK >

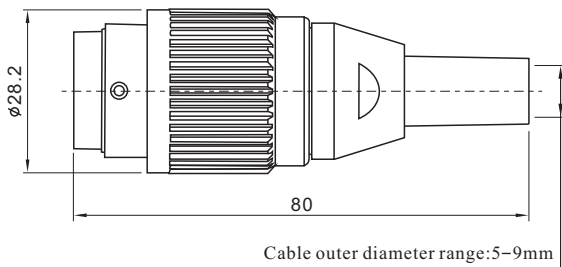
Number of contact	2	3	4	5	5B	5C	6	6B	7	8	9	12	15
Male contact face view													
Rated current (A)	30	30	30	30	30 5	15	25 5	30 5	15	10	5	5	5
Contact diameter (mm)	∅3X2	∅3X3	∅3X4	∅3X5	∅3X2 ∅1X3	∅2X5	∅2.5X4 ∅1X2	∅3X2 ∅1X4	∅2X7	∅1.5X10	∅1X9	∅1X12	∅1X15
Rated voltage (AC.V)	500	500	500	500	500	500	500	500	500	500	400	400	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1200	1200	1200
Contact resistance (mΩ)	1	1	1	1	1 5	2.5	1 5	1 5	2.5	2.5	5	5	5
Termination	solder / screw	solder / screw	solder / screw	solder / screw	solder	solder	solder	solder	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	≤4/11 ≤0.75/18	≤4/11 ≤0.75/18	≤2/14	≤2/14	≤0.75/18	≤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	/	/	/	/	/	/	/	/	/



- **WT29 Series**
- Receptacle: WT29K3Z / WT29K5Z



- Plug: WT29J3T / WT29J5T



## Material and spec

Coupling	Bayonet
Shell	Nylon PA66, Fire resistance V-0
Insert material	Nylon PA66
Contact material	Brass with silver plating
Termination	Solder
Mating cycle	500
Temperature range	-40°C ~ +85°C
Insulation resistance (M $\Omega$ )	2000
Test voltage (AC.V) 1 min	1500
Wire size (mm <sup>2</sup> /AWG)	2.5 / 16 max
Rated current (A)	10
Rated voltage (AC.V)	400
Contact resistance (m $\Omega$ )	2.5

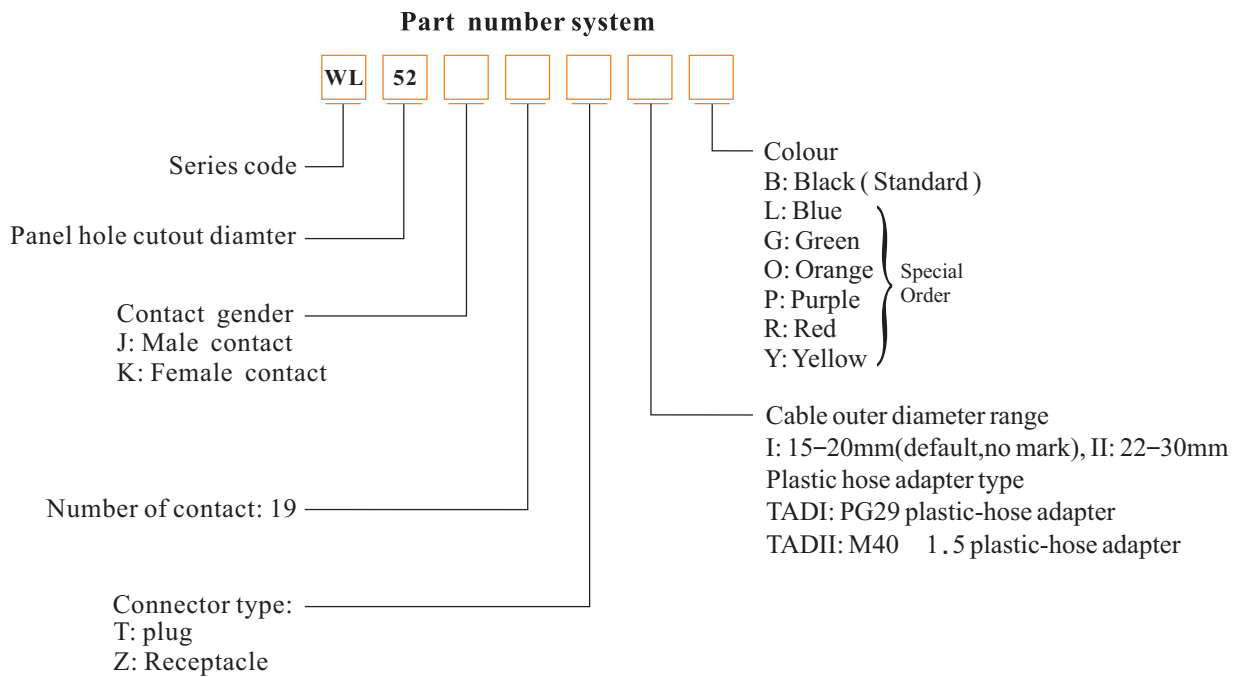
# WT29 Series



IP66/67



● **WL52 Series**



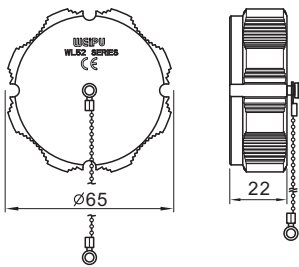
**Material and spec**

Coupling	Threaded
Shell	Anodized aluminium
Insert material	PPS, fire resistance: V-0, 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	2000 MΩ

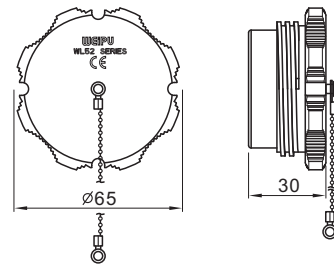




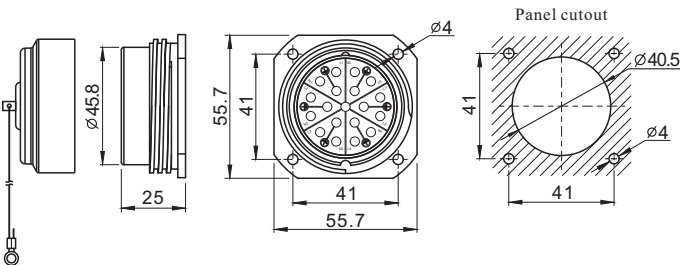
● **WL52-GZK IP67**  
Aluminium cap for female-contact connector



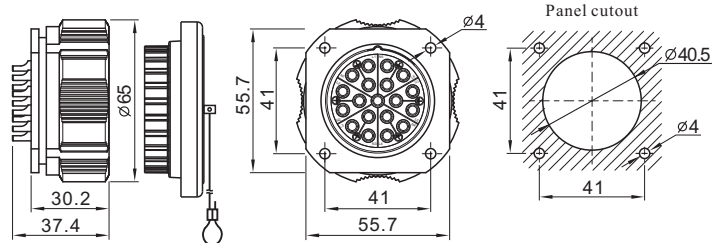
● **WL52-GZJ IP67**  
Aluminium cap for male-contact connector



● **WL52K19Z IP67**  
Square flange female contact receptacle



● **WL52J19Z IP67**  
Square flange male contact receptacle

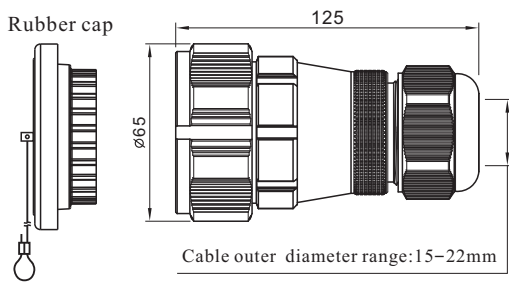


### Solder contact spec

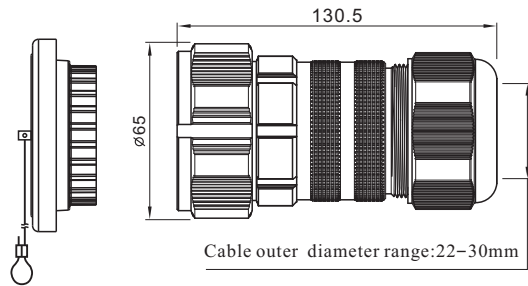
Number of contact	19
Male contact face view	
Rated current (A)	25
Contact diameter	ø3
Rated voltage	700 (DC.V), 500 (AC.V)
Test voltage(AC.V) 1 min	2500
Contact resistance (MΩ)	1
Wire size (mm <sup>2</sup> /AWG)	≤6/9



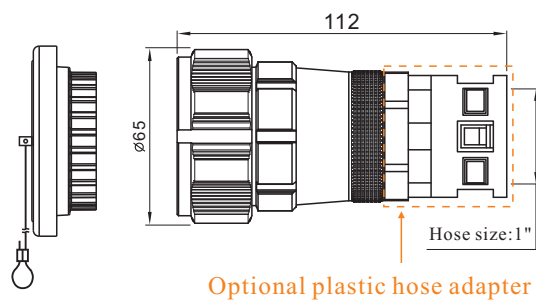
● Male-contact plug with clamping-nut: WL52J19T IP67



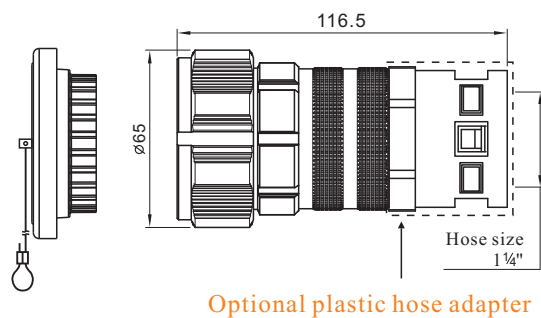
● Male-contact plug with clamping-nut 2: WL52J19TII IP67



● Male-contact plug for PG29 Plastic hose adapter: WL52J19TAD I IP66

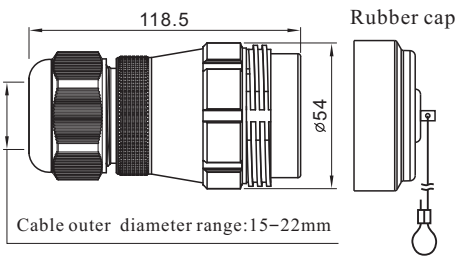


● Male-contact plug for M40 × 1.5 plastic hose adapter: WL52J19TAD II IP66

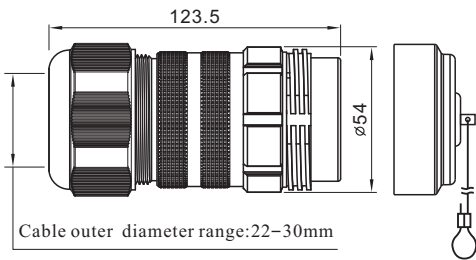




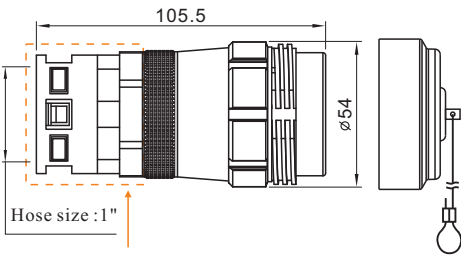
- Female-contact connector with clamping-nut: WL52K19T IP67



- Female-contact connector with clamping-nut 2: WL52K19TII IP67

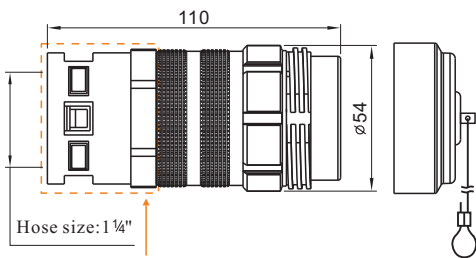


- Female-contact connector for PG29 Plastic hose adapter: WL52K19TAD I IP66



Optional plastic hose adapter

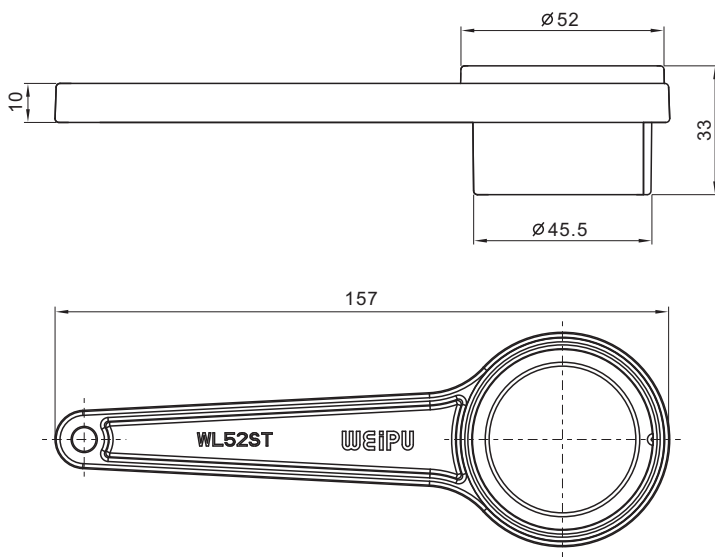
- Female-contact connector for M40 × 1.5 Plastic hose adapter: WL52K19TAD II IP66



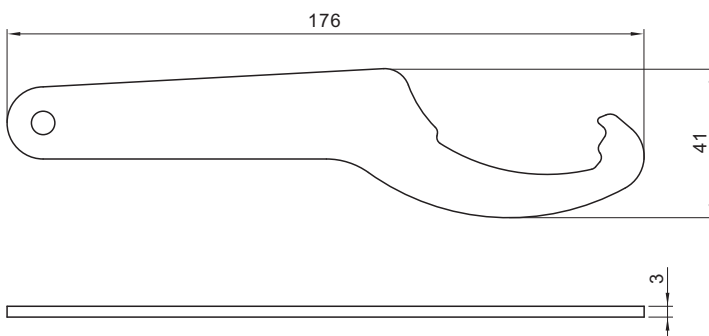
Optional plastic hose adapter



● Wrench 1: WL52ST



● Wrench 2: WL52SY



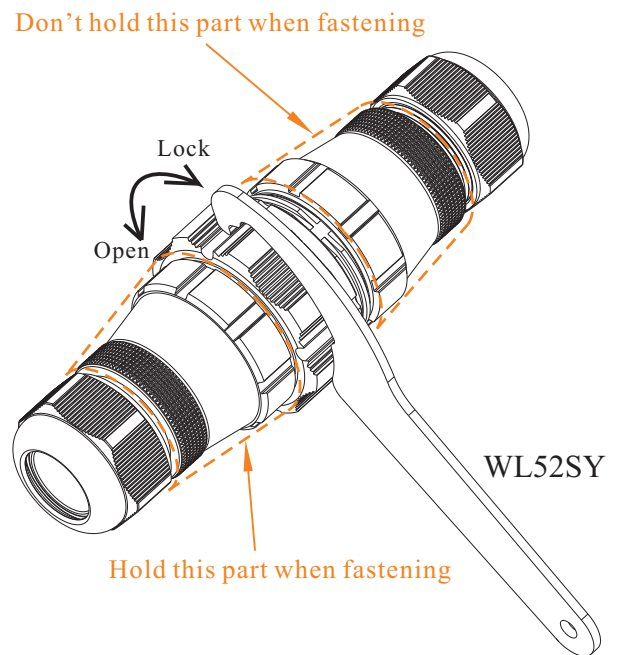
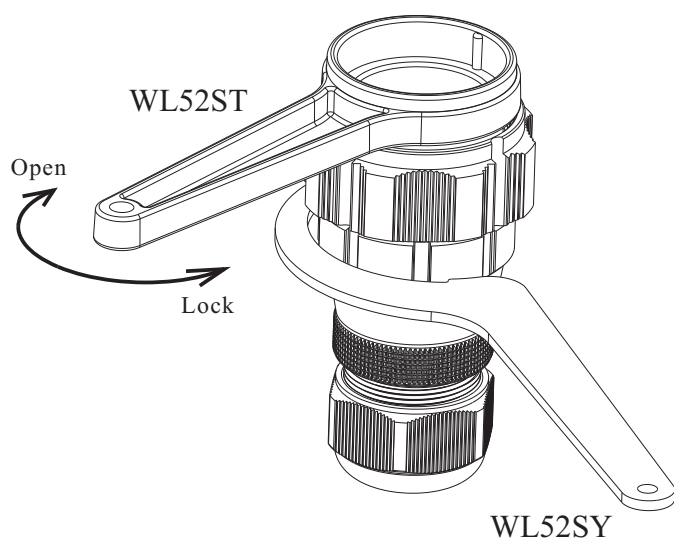
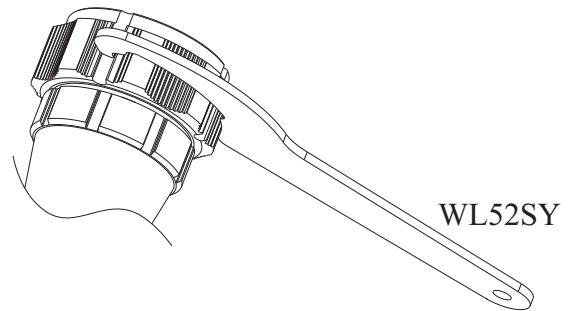
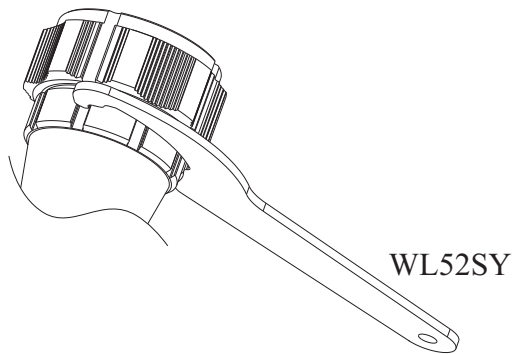
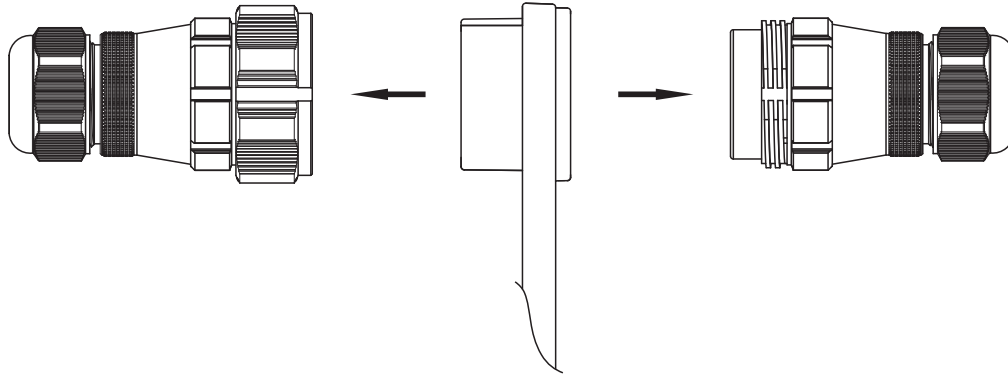


# Instruction

Male-contact connector

WL52ST

Female-contact connector









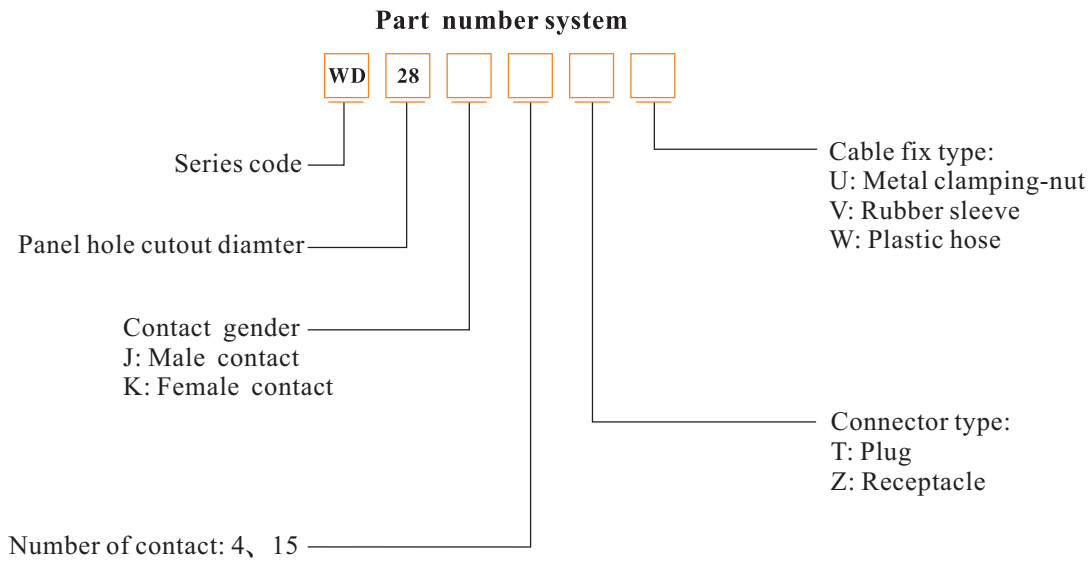
**IP67**

**WL52 Series**





● WD Series



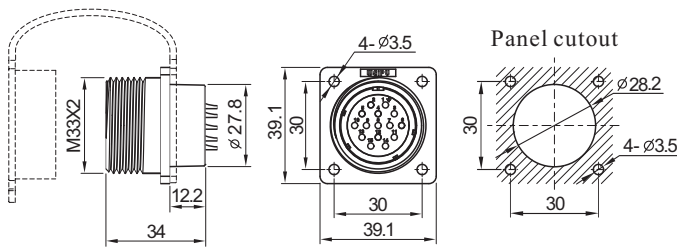
### Material and spec

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
Mating cycle	500
Temperature range	-40°C~+85°C
Insulation resistance	2000 MΩ

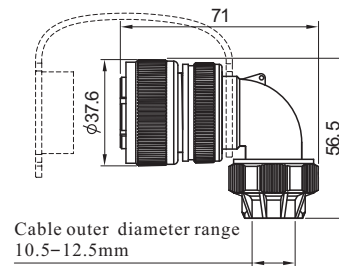




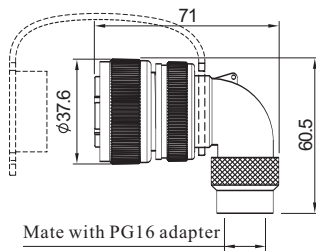
● Receptacle: Z IP65



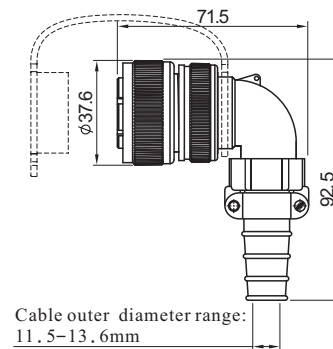
● Cable connector with clamping-nut: TU IP65



● Cable connector for plastic hose: TW IP55



● Cable connector with rubber sleeve: TV IP65

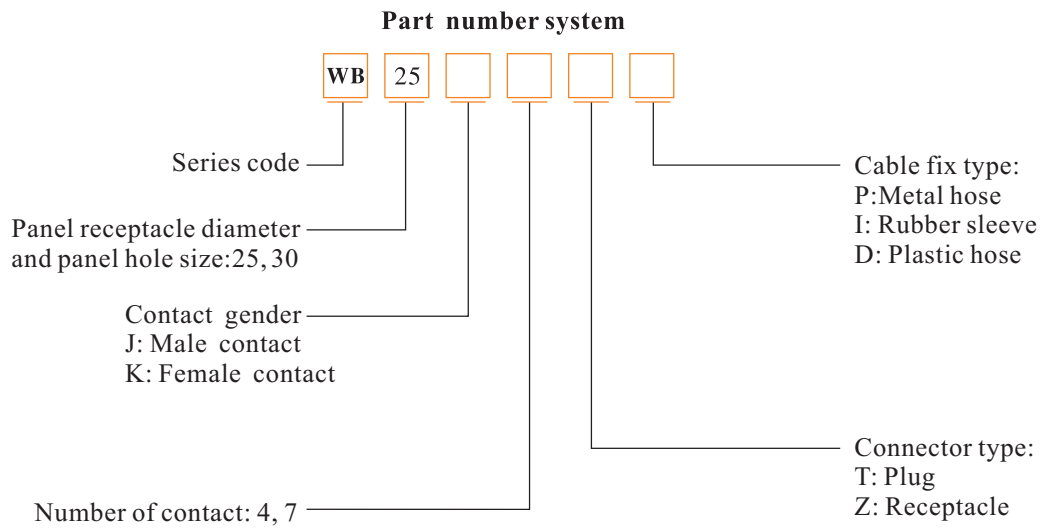


### Solder contact spec

Number of contact	4	15
Male contact face view		
Rated current (A)	50A、25A	10A
Contact diameter	ø3.5×3、ø2.5×1	ø1.5×15
Rated voltage (AC.V)	500	500
Test voltage(AC.V) 1 min	1500	1500
Contact resistance (MΩ)	1、0.5	2.5
Wire size (mm <sup>2</sup> /AWG)	≤10 / 7、≤4 / 11	≤2 / 14



● WB Series

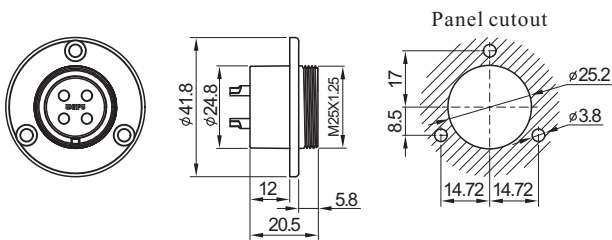


### Material and spec

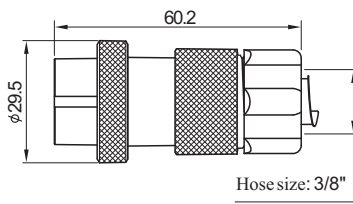
Coupling	Threaded
Shell material	Zinc alloy with chrome plating
Insert material	PPS, max temperature 260°C
Contact material	Brass with gold plating
Termination	Solder
Mating cycle	500
Temperature range	-40°C ~ +85°C
Insulation resistance	2000 MΩ



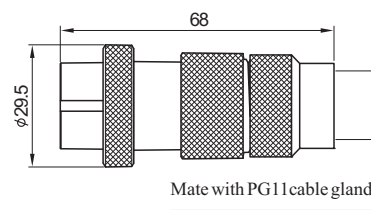
● Receptacle: Z



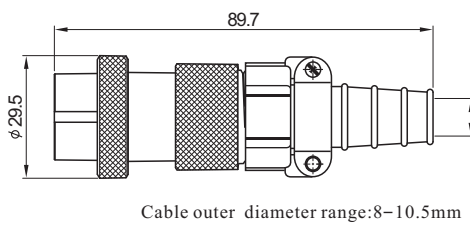
● Plug for metal-hose: TP



● Plug for plastic hose: TD



● Plug with rubber sleeve: TI

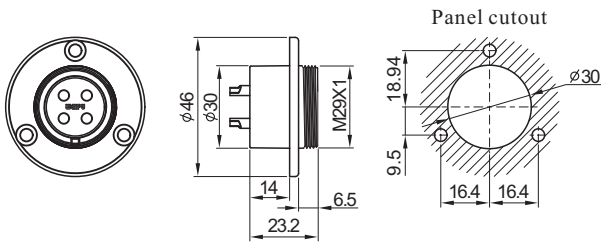


### Solder contact spec

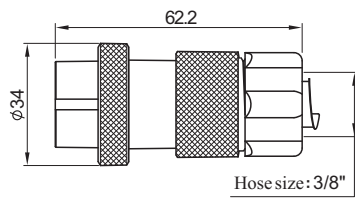
Number of contact	4
Male contact face view	
Rated current (A)	25
Contact diameter	φ 2.5×4
Rated voltage (AC.V)	500
Test voltage(AC.V) 1 min	1500
Contact resistance (MΩ)	1
Wire size (mm <sup>2</sup> /AWG)	≤ 4 / 11



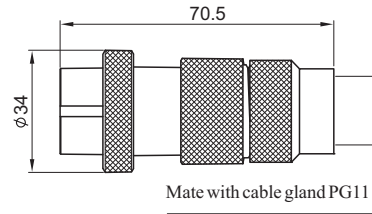
● Receptacle: Z



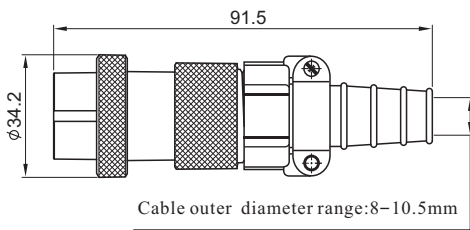
● Plug for metal-hose: TP



● Plug for plastic hose: TD



● Plug with rubber sleeve: TI



**Solder contact spec**

Number of contact	4	7
Male contact face view		
Rated current (A)	30	25
Contact diameter	∅3.5×4	∅ 2.5×7
Rated voltage (AC.V)	500	500
Test voltage(AC.V) 1 min	1500	1500
Contact resistance (MΩ)	1	2.5
Wire size (mm <sup>2</sup> /AWG)	≤ 4 / 11	≤ 2 / 14



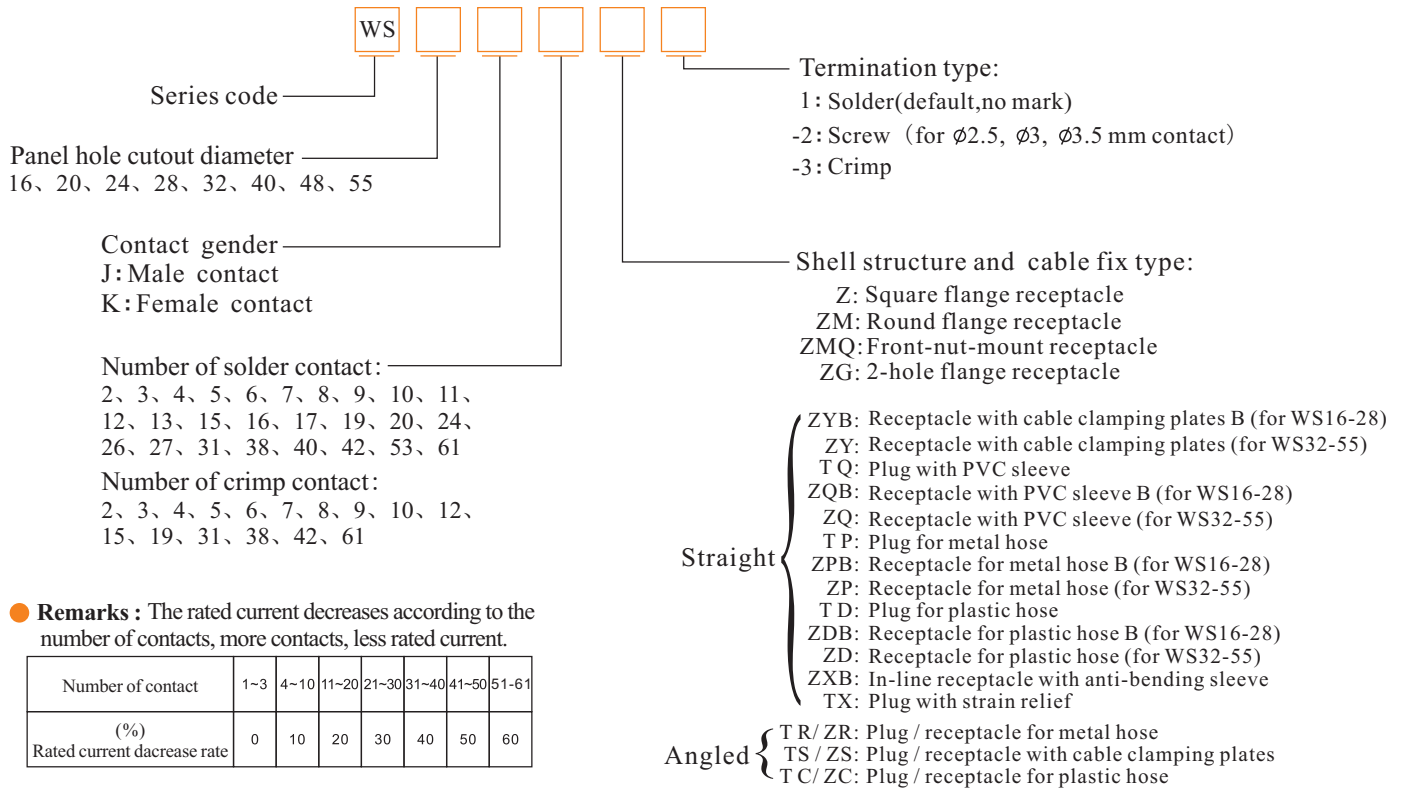
# WB Series





## ● WS Series

### Part number system



● **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

## Material and spec

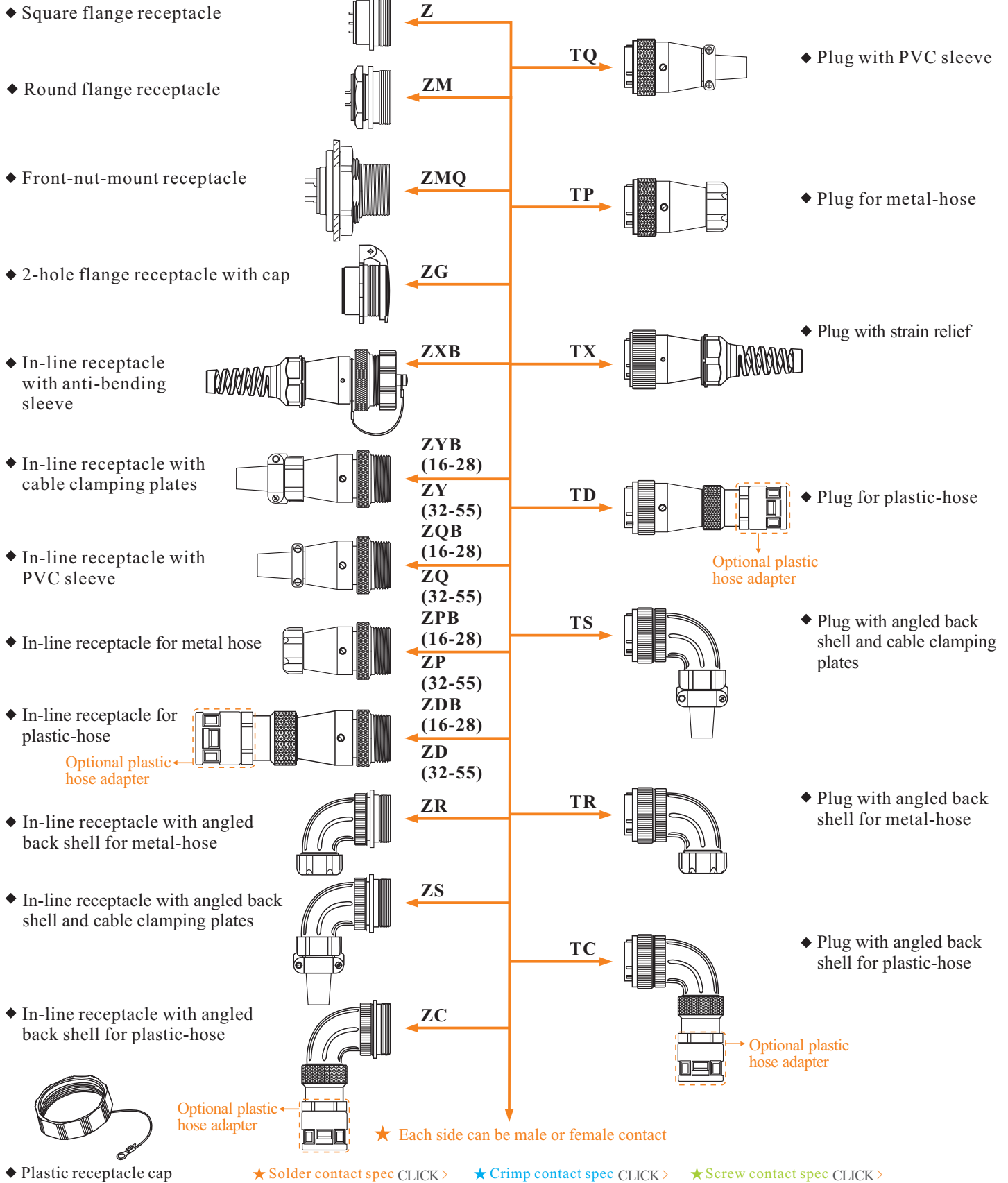
★ Solder contact spec [CLICK >](#)

★ Crimp contact spec [CLICK >](#)

★ Screw contact spec [CLICK >](#)

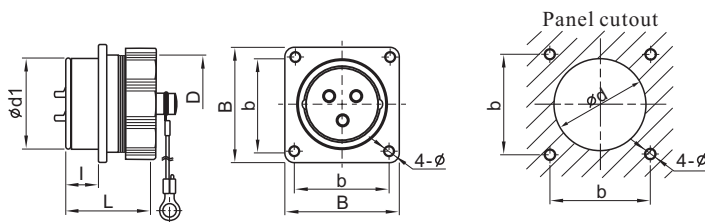
Coupling	Threaded
Shell material	Zinc alloy with chrome plating
Insert material	PPS, max temperature 260 °C
Contact material	Brass with gold plating
Termination	Solder: $\phi 1$ , $\phi 1.5$ , $\phi 2.5$ , $\phi 3.5$ , $\phi 5.5$ mm; Screw: $\phi 2.5$ , $\phi 3$ , $\phi 3.5$ mm; Crimp: $\phi 1$ , $\phi 1.5$ , $\phi 2.5$ , $\phi 3.5$ , $\phi 5.5$ , $\phi 10$ mm
Mating cycle	500
Temperature range	-40°C ~ +85°C

## WS Series Mating diagram



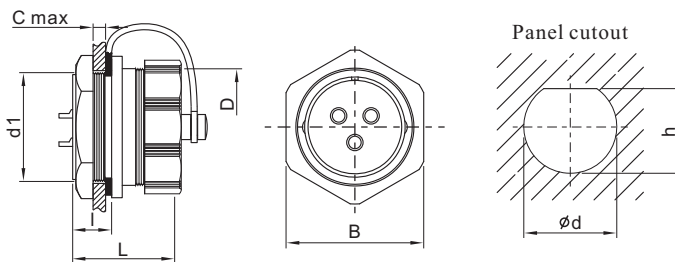


● Square flange mount receptacle: Z



Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
$\phi d1$	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
$\phi d$	16.5	20.5	24.5	28.5	32.5	40.5	48.5	55.5
$\phi$	3.2	3.2	3.2	3.2	3.5	4.5	4.5	4.5

● Round flange receptacle: ZM

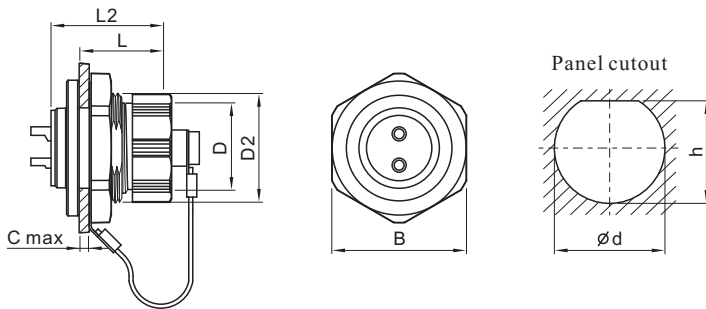


Dimension(mm)	WS16	WS20	WS24	WS28
d1	M16X1	M20X1	M24X1	M28X1
D	M18X1	M22X1	M26X1	M30X1
C	5	5	5	5
l	9.7	9.9	10	10.2
L	22	23	23	23
B	21.2	25.5	29.2	33.3
$\phi d$	15.7	19.7	23.9	27.7
h	15.3	19.3	23.2	26.9



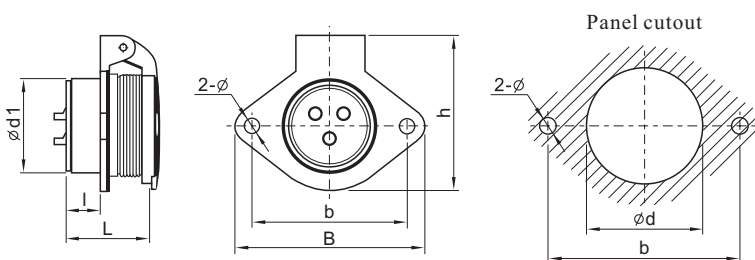


● Front-nut-mount receptacle: ZMQ IP67



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

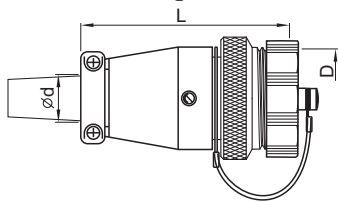
● 2-hole flange receptacle with cap: ZG



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



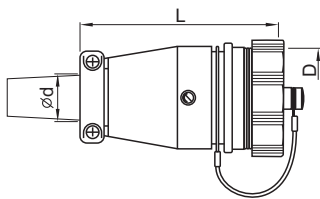
● In-line receptacle with PVC sleeve B: ZQB



Dimension(mm)	WS16	WS20	WS24	WS28
D	M18X1	M22X1	M26X1	M30X1
L	44.5	49	53	55
ød max	10.5	13	14	17.5

Optional cap size see [CLICK](#) > PVC sleeve dimension see [CLICK](#) >

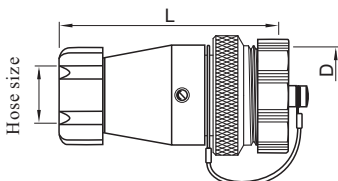
● In-line receptacle with PVC sleeve: ZQ



Dimension(mm)	WS32	WS40	WS48	WS55
D	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	70.5	76.5	85	97.5
ød max	21.5	26	26	32

Optional cap size see [CLICK](#) > PVC sleeve dimension see [CLICK](#) >

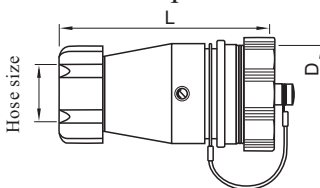
● In-line receptacle for metal-hose B: ZPB



Dimension(mm)	WS16	WS20	WS24	WS28
D	M18X1	M22X1	M26X1	M30X1
L	50	57.5	60.5	64.5
Hose size	1/4"	3/8"	3/8"	1/2"

Optional cap size see [CLICK](#) >

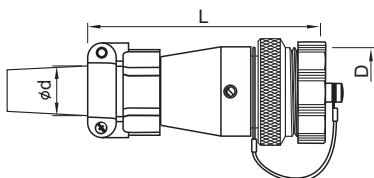
● In-line receptacle for metal-hose: ZP



Dimension(mm)	WS32	WS40	WS48	WS55
D	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	80	87	97	113
Hose size	3/4"	1"	I: 1" (default, no mark) II: 1 1/4"	1 1/4"

Optional cap size see [CLICK](#) >

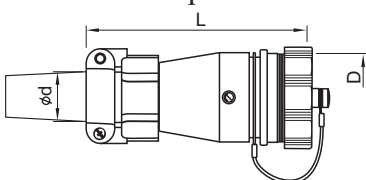
● In-line receptacle with cable clamping plates B: ZYB



Dimension(mm)	WS16	WS20	WS24	WS28
D	M18X1	M22X1	M26X1	M30X1
L	50.5	60.5	63.5	69
ød max	10.4	13.5	13.5	17

Optional cap size see [CLICK](#) > PVC sleeve dimension see [CLICK](#) >

● In-line receptacle with cable clamping plates: ZY

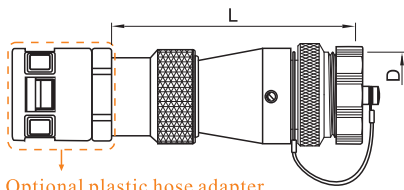


Dimension(mm)	WS32	WS40	WS48	WS55
D	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	86	95	102	117.5
ød max	19	25	I: 24 (default, no mark) II: 32	32

Optional cap size see [CLICK](#) > PVC sleeve dimension see [CLICK](#) >



● In-line receptacle for plastic-hose B: ZDB

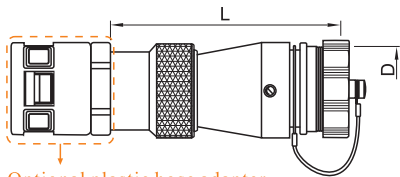


Optional plastic hose adapter

Dimension(mm)	WS16	WS20	WS24	WS28
D	M18X1	M22X1	M26X1	M30X1
L	55.5	64.5	69	75.5
Adapter size	PG7	PG11	PG11	PG16
Hose size	1/4"	3/8"	3/8"	1/2"

Optional cap size see [CLICK](#) >

● In-line receptacle for plastic-hose: ZD

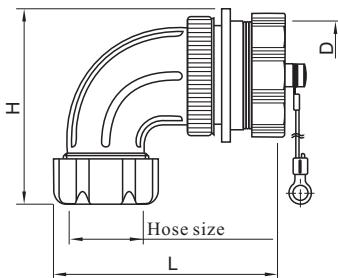


Optional plastic hose adapter

Dimension(mm)	WS32	WS40	WS48	WS55
D	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	89.5	96.5	105	119.5
Adapter size	PG21	PG29	I: PG29 (default, no mark) II: PG36	PG36
Hose size	3/4"	1"	I: 1" (default, no mark) II: 1 1/4"	1 1/4"

Optional cap size see [CLICK](#) >

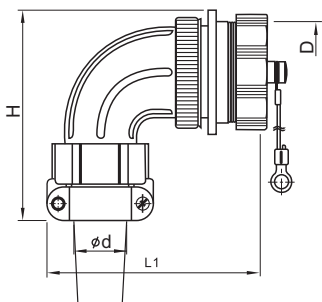
● In-line receptacle with angled back shell for metal-hose: ZR



Dimension(mm)		WS20	WS24	WS28	WS32	WS40	WS48	WS55
D	—	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	—	61	60.5	64.5	83.5	90.5	97	114.5
H	—	48	51.5	52	63.5	74.5	85	98
Hose size	—	3/8"	3/8"	1/2"	3/4"	1"	1"	1 1/4"

Optional cap size see [CLICK](#) >

● In-line receptacle with angled back shell and cable clamping plates: ZS

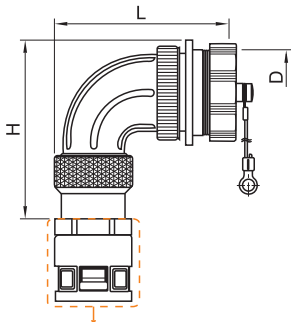


Dimension(mm)		WS20	WS24	WS28	WS32	WS40	WS48	WS55
D	—	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	—	60.5	60.5	64.5	82	89	95.5	114
H	—	56.5	57	63.5	72	83.5	94.5	112.5
ød max	—	13.5	13	17	19	23	24	32

Optional cap size see [CLICK](#) >



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

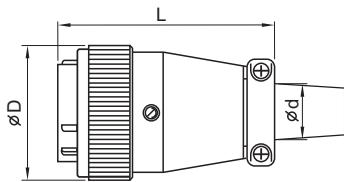


Optional plastic hose adapter

Dimension(mm)		WS20	WS24	WS28	WS32	WS40	WS48	WS55
D	—	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	—	60	61	63	82	88.5	95	112
H	—	58	60	65	75.5	83	95.5	104
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 cap size see [CLICK >](#)

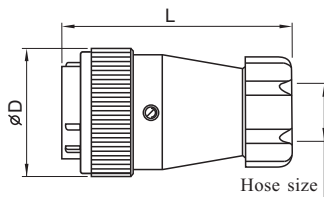
● Plug with PVC sleeve: TQ



Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
øD	21.5	26	30	34	39.5	49.5	57	64.5
L	44	49	53	55	69	76	85	97
ød max	10.5	13	13.5	17.5	21.5	26	26	32

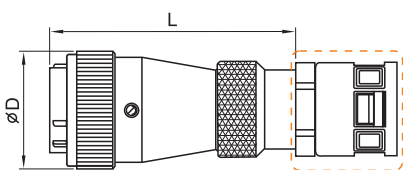
PVC sleeve dimension see [CLICK >](#)

● Plug for metal-hose: TP



Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
øD1	21.5	26	29	34	39.5	49.5	57	64.5
L	48.5	57	61	64	81	86	96.5	112
Hose size	1/4"	3/8"	3/8"	1/2"	3/4"	1"	I: 1" (default, no mark) II: 1 1/4"	1 1/4"

● Plug for plastic-hose: TD



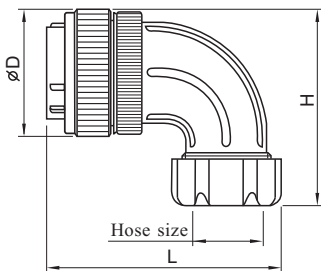
Optional plastic hose adapter

Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
øD	21.5	26	30	34.5	39.5	49.5	57	64.5
L	56	64.5	68.5	73	88.5	95.5	105	119
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" (default, no mark) II: 1 1/4"	1 1/4"



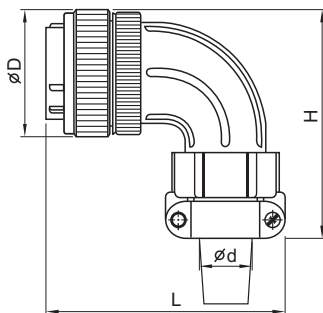


● Plug with angled back shell for metal-hose: TR



Dimension(mm)		WS20	WS24	WS28	WS32	WS40	WS48	WS55
ØD	—	27.5	31	35	39	49	57	64.5
H	—	50	51	54.5	63	73	89	97.5
L	—	60	60	64	82	87.5	94	115
Hose size	—	3/8"	3/8"	1/2"	3/4"	1"	1"	1 1/4"

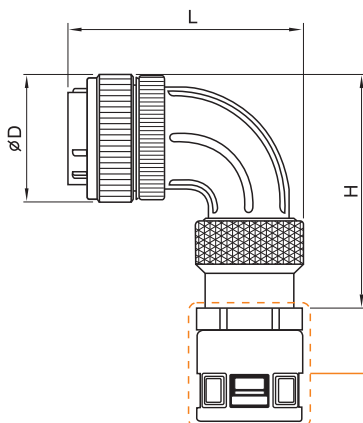
● Plug with angled back shell with cable clamping plates: TS



Dimension(mm)		WS20	WS24	WS28	WS32	WS40	WS48	WS55
ØD	—	27.5	31	35	39	49.5	57	65
H	—	53.5	56	61	67.5	78	91	99.5
L	—	60	60	64	81	88	95	106
Ød max	—	13.5	13.5	16.8	19	23.5	24	32

PVC sleeve dimension see [CLICK >](#)

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

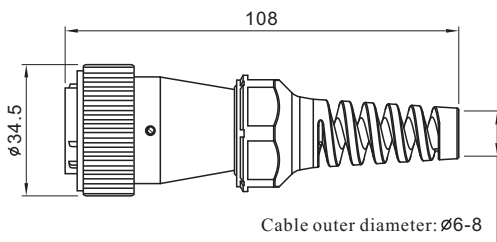


Dimension(mm)		WS20	WS24	WS28	WS32	WS40	WS48	WS55
ØD	—	27.5	31	35	39	49.5	57	64.5
H	—	57	62	65	71.5	82	96	104
L	—	59.5	60	63	81	88	94	112
Adapter size	—	PG11	PG11	PG16	PG21	PG29	PG29	PG36
Hose size	—	3/8"	3/8"	1/2"	3/4"	1"	1"	1 1/4"

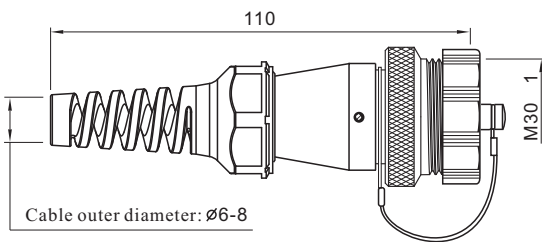
Optional plastic hose adapter



● Plug with strain relief: TX



● In-line receptacle with anti-bending sleeve: ZXB



★ It can be produced 28 models, other models are customizable

**Solder contact spec**

★ [Crimp contact spec](#) CLICK >

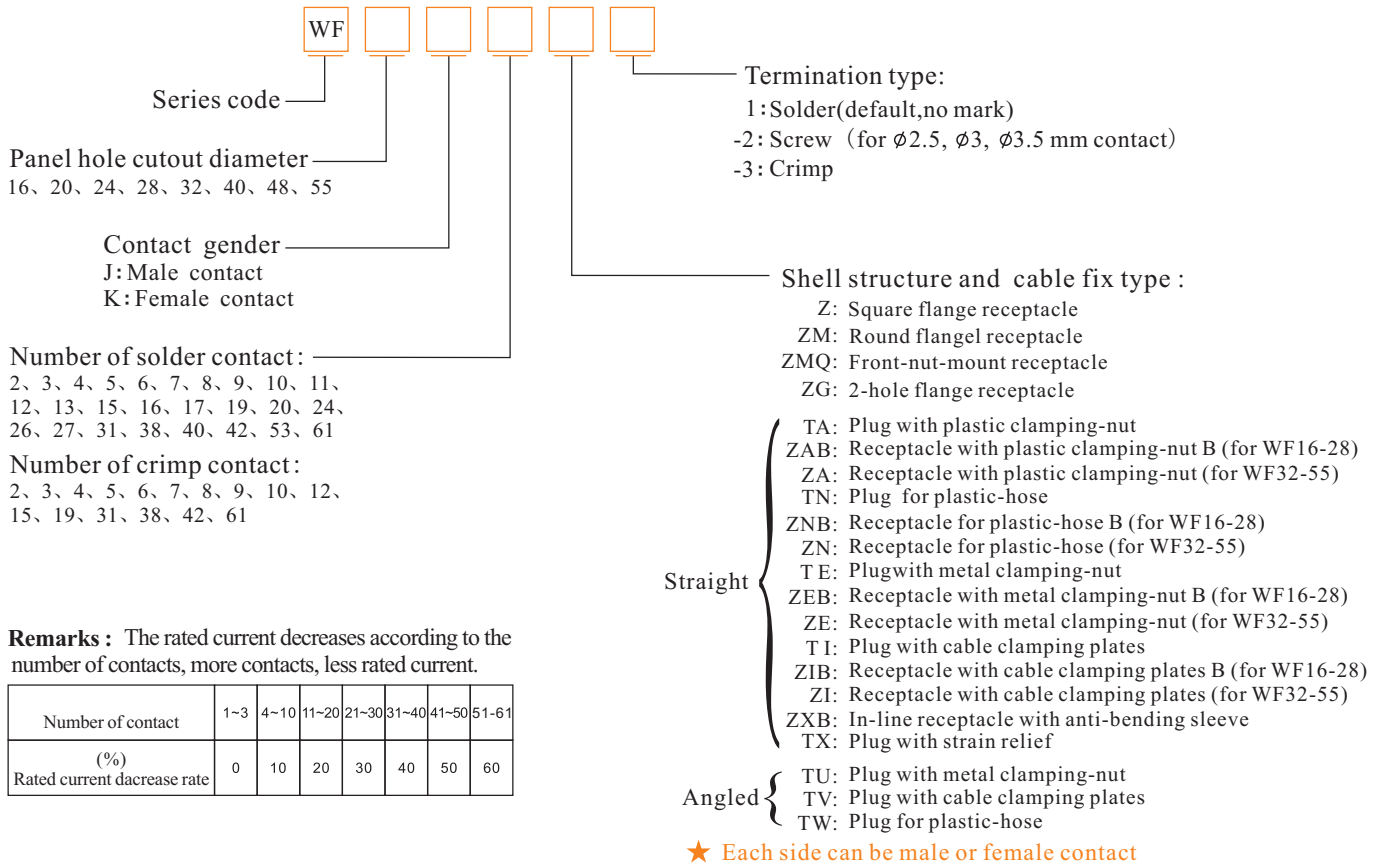
★ [Screw contact spec](#) CLICK >

WS28	2	3	4	7	8	8B	9	10	10B	12	16	17	20	24	26	35
Male contact face view																
Rated current (A)	50	50	25	25	25	60, 5	25, 5	25	10	10	10	10	5	5	5	5
Contact diameter (mm)	3.5X2	3.5X3	2.5X4	2.5X7	2.5X8	5X2 1X6	2.5X4 1X5	2.5X10	1.5X10	1.5X12	1.5X16	1.5X17	1X20	1X24	1X26	1X35
Rated voltage (AC.V)	500	500	500	500	500	500 400	500	500	500	500	500	500	400	400	400	400
Test voltage (AC.V) 1 min	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1200	1200	1200	1200
Contact resistance (mΩ)	0.5	0.5	1	1	1	5, 0.5	1, 5	1	2.5	2.5	2.5	2.5	5	5	5	5
Termination	solder / screw	solder / screw	solder / screw	solder / screw	solder / screw	solder / screw	solder	solder	solder / screw	solder	solder	solder	solder	solder	solder	solder
Wire size (mm <sup>2</sup> /AWG)	≤10/7	≤10/7	≤4/11	≤4/11	≤4/11	≤16/5 ≤0.75/18	≤4/11 ≤0.75/18	≤4/11	≤2/14	≤2/14	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18
Wire size for screw termination	≤6/10	≤6/10	≤1.5/15	≤1.5/15	≤1.5/15	/	/	≤1.5/15	/	/	/	/	/	/	/	/



● **WF Series**

**Part number system**



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

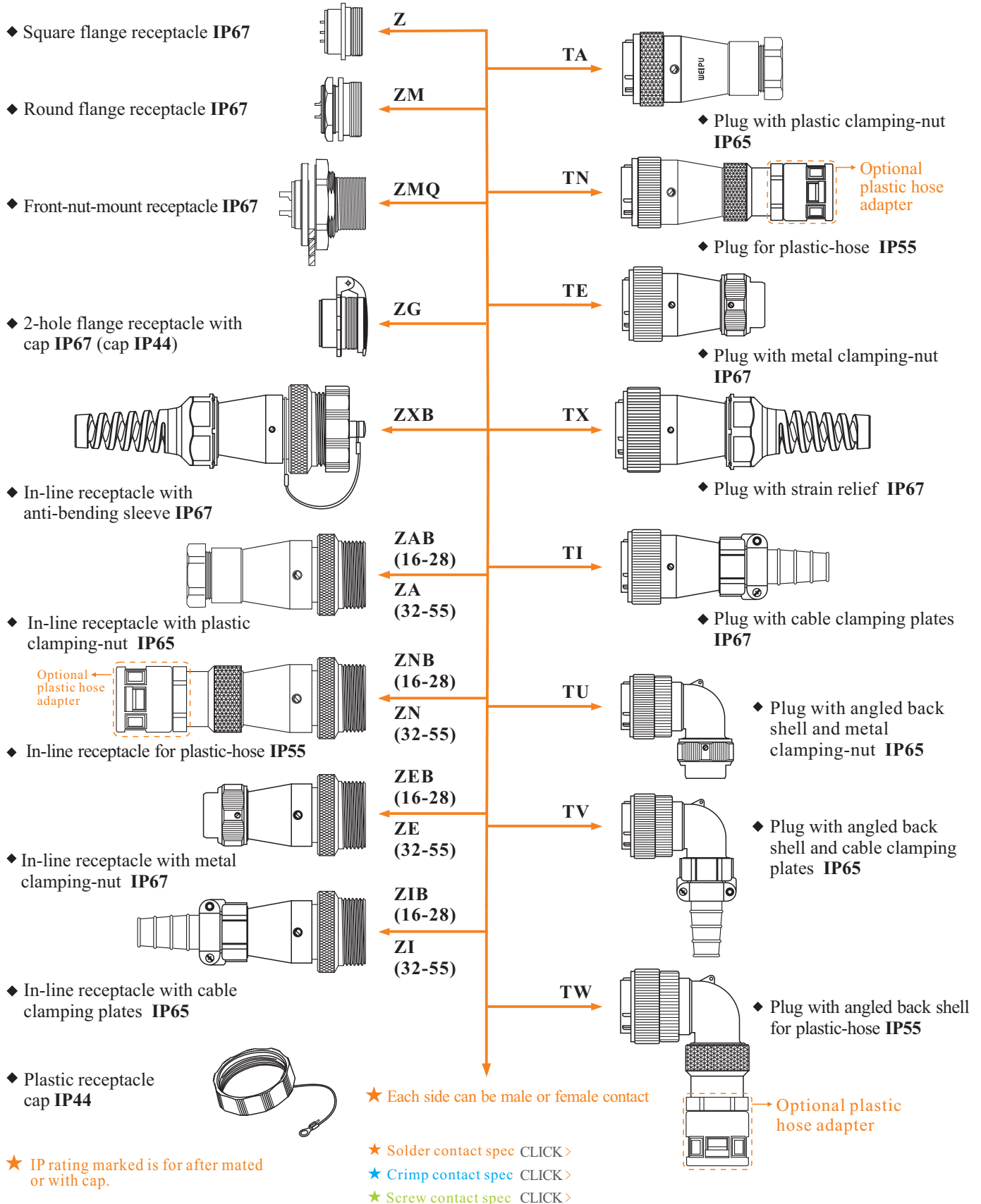
Number of contact	1~3	4~10	11~20	21~30	31~40	41~50	51~61
(%)	0	10	20	30	40	50	60
Rated current decrease rate	0	10	20	30	40	50	60

**Material and spec**

★ [Solder contact spec CLICK >](#)   ★ [Crimp contact spec CLICK >](#)   ★ [Screw contact spec CLICK >](#)

Coupling	Threaded
Shell material	Zinc alloy with chrome plating
Insert material	PPS, max temperature 260 °C
Contact material	Brass with gold plating
Termination	Solder: $\phi 1, \phi 1.5, \phi 2.5, \phi 3.5, \phi 5, 5$ mm;   Screw: $\phi 2.5, \phi 3, \phi 3.5$ mm;   Crimp: $\phi 1, \phi 1.5, \phi 2.5, \phi 3.5, \phi 5.5, \phi 10$ mm
Mating cycle	500
Temperature range	-40°C ~ +85°C

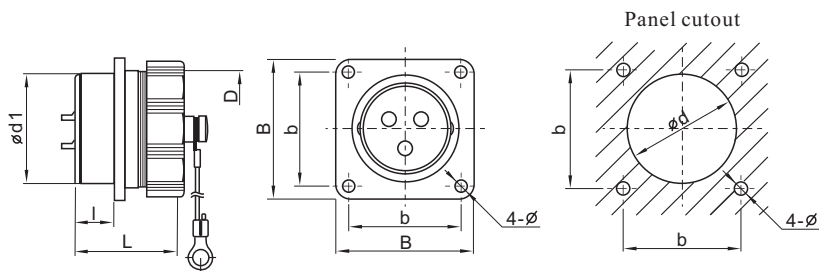
## WF Series Mating diagram





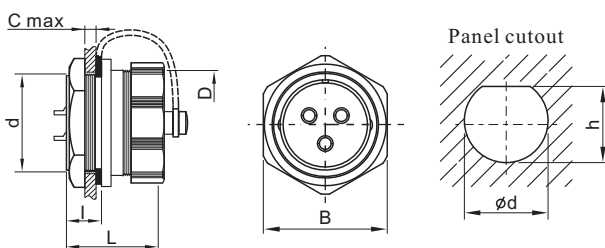


● Square flange receptacle: Z IP67



Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
$\varnothing d1$	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
I	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
$\varnothing d$	16.5	20.5	24.5	28.5	32.5	40.5	48.5	55.5
$\varnothing$	3.2	3.2	3.2	3.2	3.5	4.5	4.5	4.5

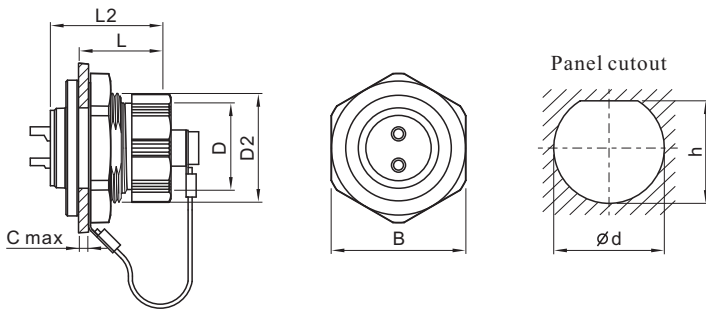
● Round flange receptacle: ZM IP67



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

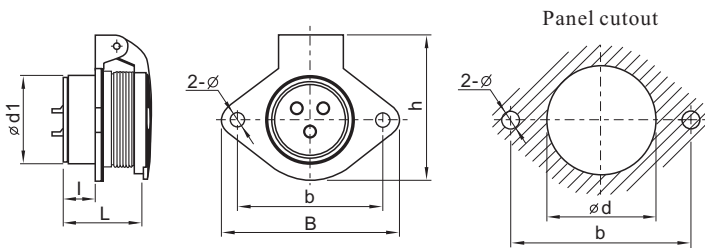


● Front-nut-mount panel receptacle: ZMQ IP67



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

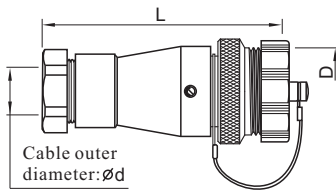
● 2-hole flange receptacle with cap: ZG IP67(cap IP44)



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



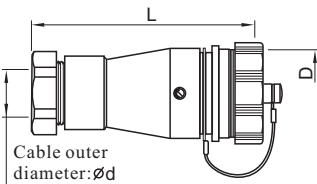
● In-line receptacle with plastic clamping-nut B: ZAB IP65



Dimension(mm)	WF16	WF20	WF24	WF28
D	M18X1	M22X1	M26X1	M30X1
L	53.5	65	68	73.5
Ød	4.5-7	5-12	5-12	6.5-15.5

Optional cap size see [CLICK >](#)

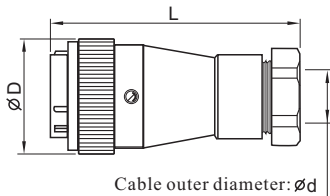
● In-line receptacle with plastic clamping-nut: ZA IP65



Dimension(mm)	WF32	WF40	WF48	WF55
D	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	89	109	108.5	128
Ød	8.5-19.5	11.5-24.5	11.5-24.5	15-31

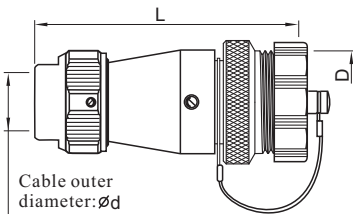
Optional cap size see [CLICK >](#)

● Plug with plastic clamping-nut: TA IP65



Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
ØD	22	26	30	34.5	39.5	49.5	57	64.5
L	53.5	64	67	73	89.5	100	108.5	127
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

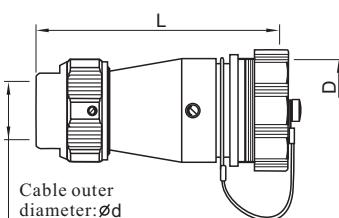
● In-line receptacle with metal clamping-nut B: ZEB IP67



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

Optional cap size see [CLICK >](#)

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

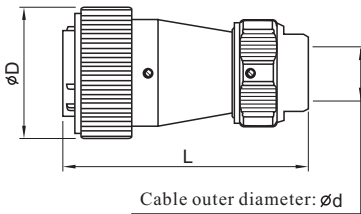


Dimension(mm)	WF32	WF40	WF48	WF55
D	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	90.5	99.5	108	134.5
Ød	15.5-17	18-20	I:18-20 (default, no mark) II:24.5-26	24.5-26

Optional cap size see [CLICK >](#)

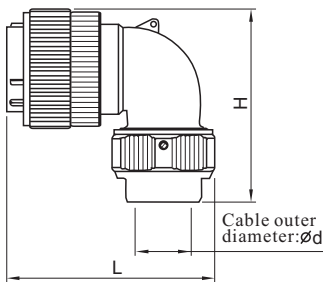


● Plug with metal clamping-nut: TE IP67



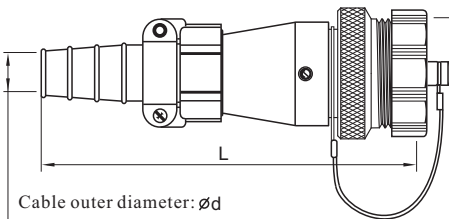
Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
$\varnothing D$	22	26	30	34.5	39.5	49.5	57	64.5
L	54.5	62.5	65	68	88	100	110	131.5
$\varnothing d$	5-6.5	9-10.5	9-10.5	10.5-12.5	15.5-17	18-20	I:18-20 (default, no mark) II:24.5-26	24.5-26

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



Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
H	43	51	59	57	73.5	85	103	108
L	48	57	59	61	84	90	97	109
$\varnothing d$	5-6.5	9-10.5	9-10.5	10.5-12.5	15.5-17	18-20	24.5-26	24.5-26

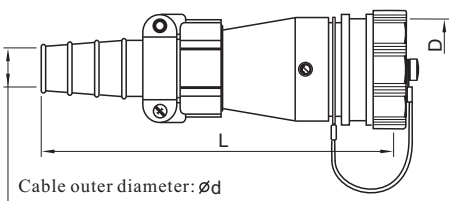
● In-line receptacle with cable clamping plates B: ZIB IP65



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

Optional cap size see [CLICK >](#)

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



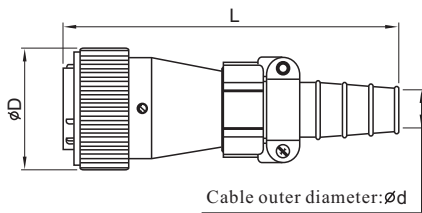
Dimension(mm)	WF32	WF40	WF48	WF55
D	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	118.5	130	137	163
$\varnothing d$	13-15.6	15.5-18.8	I:15.5-18.8 (default, no mark) II:24-28	24-28

Optional cap size see [CLICK >](#)



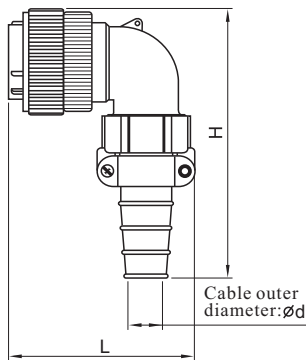


● Plug with cable clamping plates: TI IP65



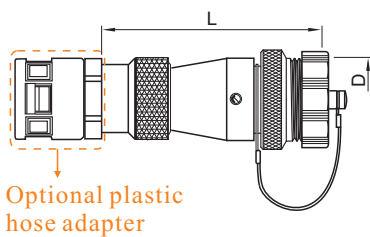
Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
ØD	22	26	30	34.5	39.5	49.5	57	64.5
L	72.5	87	92	100.5	118.5	130.5	140	163
Ød	7-8	8-10.5	8-10.5	11.5-13.6	13-15.6	15.5-18.8	I:15.5-18.8 II:24-28	24-28

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



Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
H	60	80	80	88.5	96	115	127	140
L	49.5	56.5	58	61	82.5	90	98	108
Ød	7-8	8-10.5	8-10.5	11.5-13.6	13-15.6	15.5-18.8	24-28	24-28

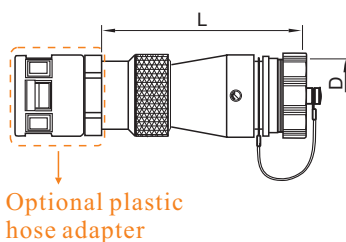
● In-line receptacle for plastic-hose B: ZNB IP55



Dimension(mm)	WF16	WF20	WF24	WF28
D	M18X1	M22X1	M26X1	M30X1
L	54.5	64	67	73
Adapter size	PG7	PG11	PG11	PG16
Hose size	1/4"	3/8"	3/8"	1/2"

Optional cap size see [CLICK](#) >

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

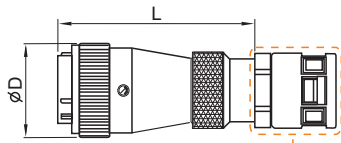


Dimension(mm)	WF32	WF40	WF48	WF55
D	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	86.5	95	104	120
Adapter size	PG21	PG29	I: PG29 (default, no mark) II: PG36	PG36
Hose size	3/4"	1"	I: 1" (default, no mark) II: 1 1/4"	1 1/4"

Optional cap size see [CLICK](#) >



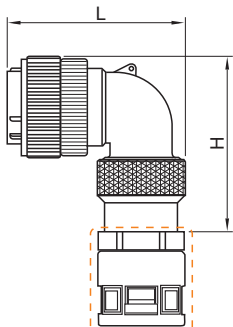
● Plug for plastic-hose: TN IP55



Optional plastic hose adapter

Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
∅D	22	26	30	34.5	39.5	49.5	57	64.5
L	54	62.5	66.5	72.5	87.5	95	105	118
Adapter size	PG7	PG11	PG11	PG16	PG21	PG29	<small>(default,no mark)</small> I: Pg29 II: PG36 Pg36	
Hose size	1/4"	3/8"	3/8"	1/2"	3/4"	1"	<small>(default,no mark)</small> I: 1" II: 1 1/4"	

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

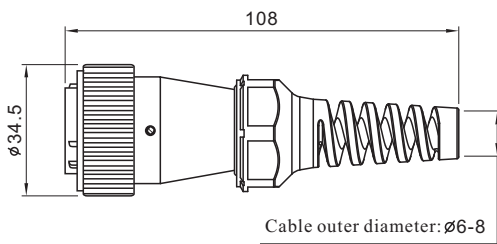


Optional plastic hose adapter

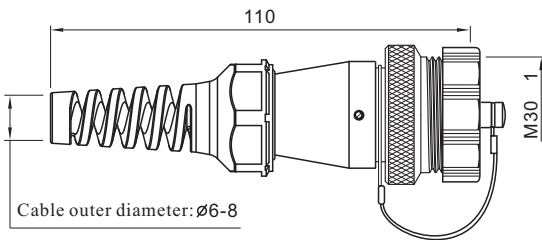
Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
H	42	53.5	54.5	60	67	80	89.5	95
L	47	56.5	57.5	61	82	88.5	95	106
Adapter size	PG7	PG11	PG11	PG16	PG21	PG29	PG36	PG36
Hose size	1/4"	3/8"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/4"



● Plug with strain relief: TX IP67



● In-line receptacle with anti-bending sleeve: ZXB IP67



★ It can be produced 28 models, other models are customizable

**Solder contact spec**

★ [Crimp contact spec](#) CLICK >

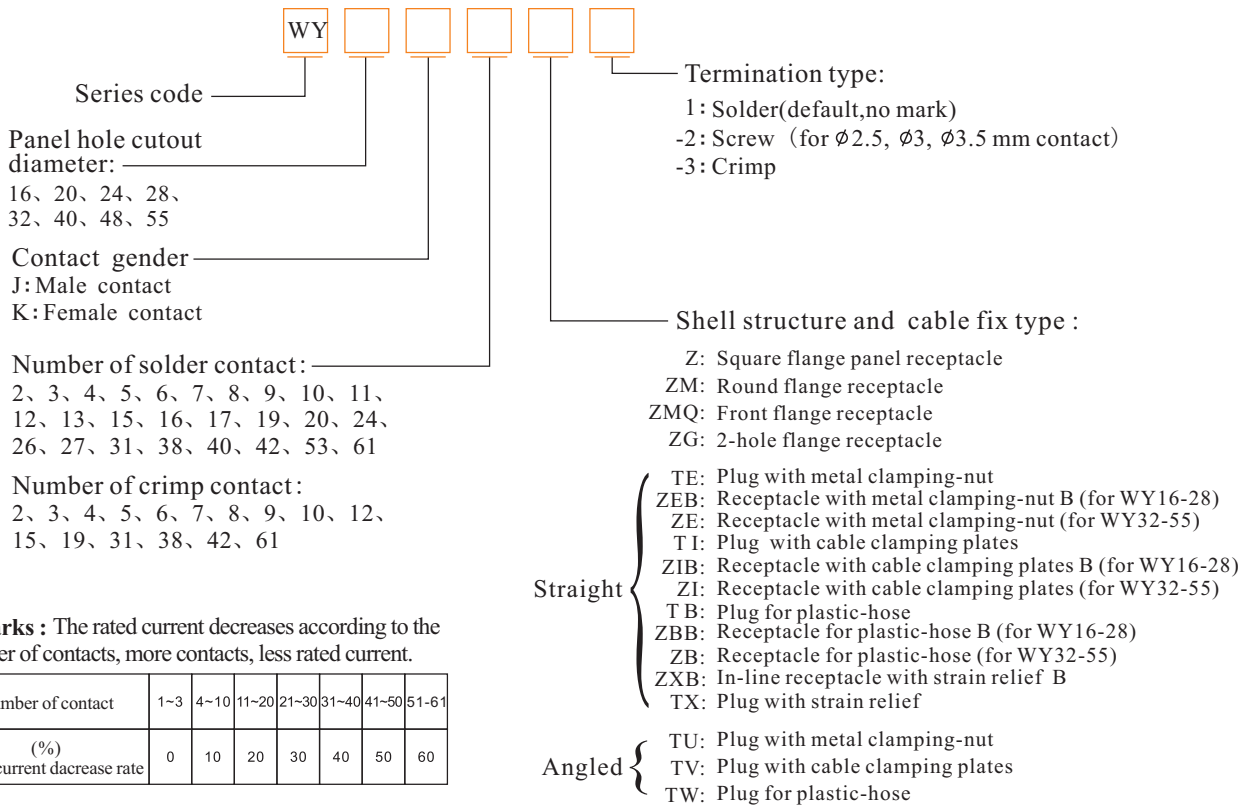
★ [Screw contact spec](#) CLICK >

WF28	2	3	4	7	8	8B	9	10	10B	12	16	17	20	24	26	35
Male contact face view																
Rated current (A)	50	50	25	25	25	60, 5	25, 5	25	10	10	10	10	5	5	5	5
Contact diameter(mm)	φ3.5X2	φ3.5X3	φ2.5X4	φ2.5X7	φ2.5X8	φ5X2 φ1X6	φ2.5X4 φ1X5	φ2.5X10	φ1.5X10	φ1.5X12	φ1.5X16	φ1.5X17	φ1X20	φ1X24	φ1X26	φ1X35
Rated voltage (AC.V)	500	500	500	500	500	500 400	500	500	500	500	500	500	400	400	400	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1200	1200	1200	1200
Contact resistance(mΩ)	0.5	0.5	1	1	1	5, 0.5	1, 5	1	2.5	2.5	2.5	2.5	5	5	5	5
Termination	solder / screw	solder / screw	solder / screw	solder / screw	solder / screw	solder / screw	solder	solder / screw	solder	solder	solder	solder	solder	solder	solder	solder
Wire size (mm <sup>2</sup> /AWG)	≤10/7	≤10/7	≤4/11	≤4/11	≤4/11	≤16/5 ≤0.75/18	≤4/11 ≤0.75/18	≤4/11	≤2/14	≤2/14	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18
Wire size for screw termination	≤6/10	≤6/10	≤1.5/15	≤1.5/15	≤1.5/15	/	/	≤1.5/15	/	/	/	/	/	/	/	/



● **WY Series**

**Part number system**



● **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

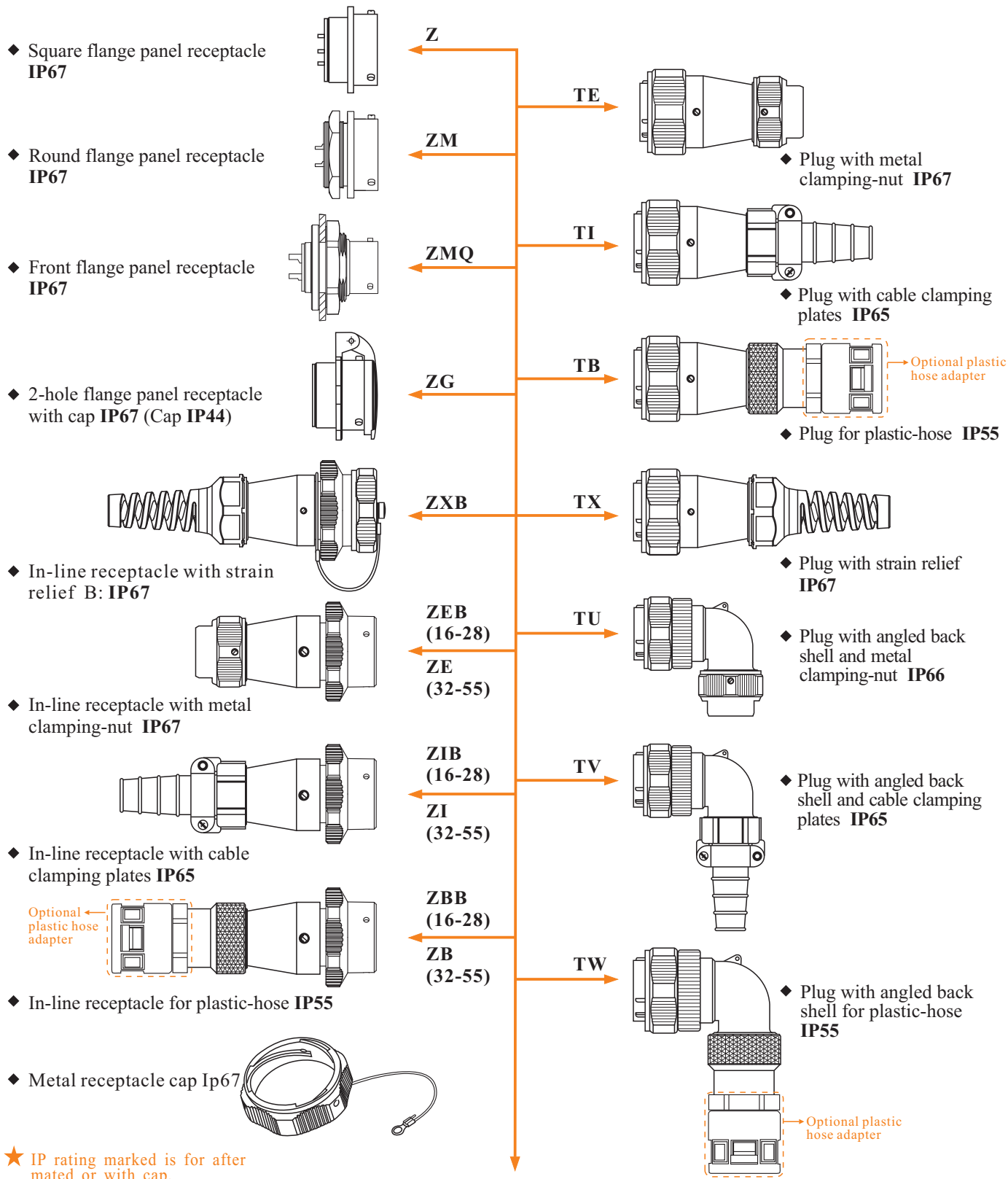
**Material and spec**

★ [Solder contact spec CLICK >](#) ★ [Crimp contact spec CLICK >](#) ★ [Screw contact spec CLICK >](#)

Coupling	Bayonet
Shell material	Zinc alloy with chrome plating
Insert material	PPS, max temperature 260 °C
Contact material	Brass with gold plating
Termination	Solder: $\phi 1, \phi 1.5, \phi 2.5, \phi 3.5, \phi 5, 5\text{mm}$ ; Screw: $\phi 2.5, \phi 3, \phi 3.5\text{mm}$ ; Crimp: $\phi 1, \phi 1.5, \phi 2.5, \phi 3.5, \phi 5.5, \phi 10\text{mm}$
Mating cycle	500
Temperature range	-40°C ~ +85°C



### WY Series Mating diagram



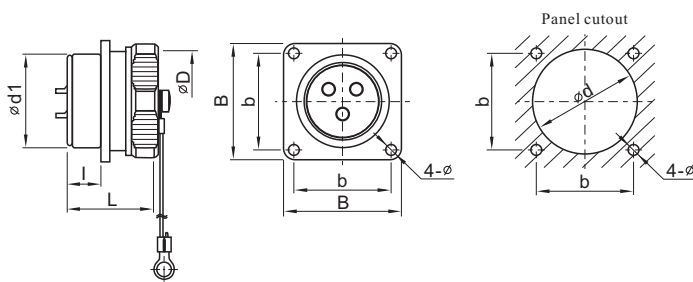
★ IP rating marked is for after mated or with cap.

★ Each side can be male or female contact

★ Solder contact spec [CLICK >](#) ★ Crimp contact spec [CLICK >](#) ★ Screw contact spec [CLICK >](#)

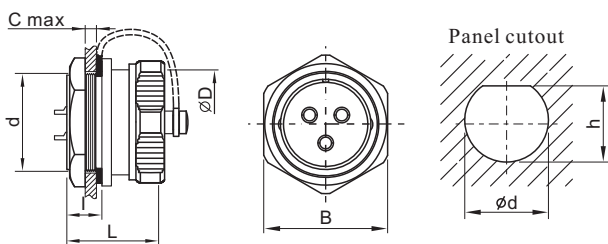


● Square flange panel receptacle: Z IP67



Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
d1	15.8	19.8	23.8	27.8	31.8	40	47.8	54.8
D	18	22	26	30	35	44	52	58
I	9.7	9.8	10	9.8	14.4	14.2	14.2	14
L	21.6	23	23	23	34	33.5	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
$\varnothing$	3.2	3.2	3.2	3.2	3.5	4.5	4.5	4.5

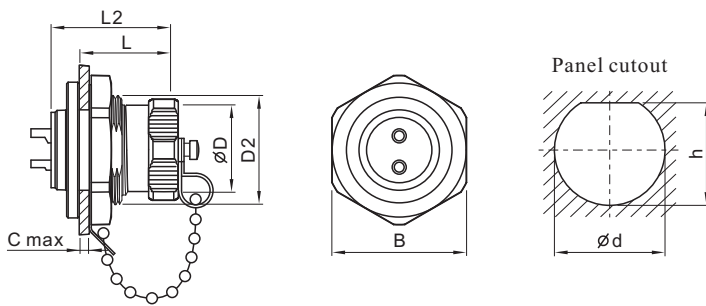
● Round flange panel receptacle: ZM IP67



Dimension(mm)	WY16	WY20	WY24	WY28
d	M16X1	M20X1	M24X1	M28X1
D	18	22	26	30
C	5	5	5	5
I	9.7	9.9	10	10.2
L	22	23	23	23
B	21.2	25.5	29.2	33.3
$\varnothing d$	15.9	19.9	23.9	27.9
h	15.3	19.3	23.2	26.9

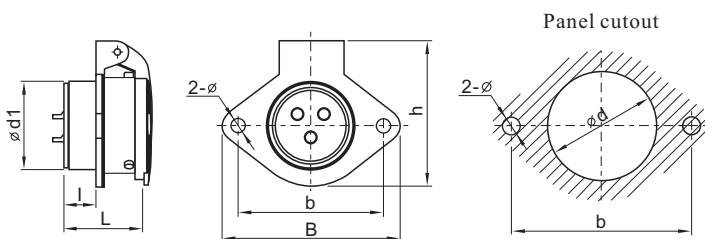


● Front-nut-mount receptacle: ZMQ IP67



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

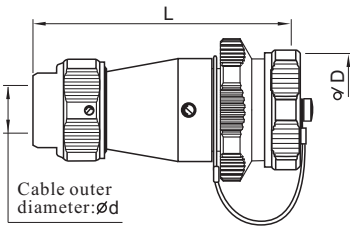
● 2-hole flange panel receptacle with cap: ZG IP67 (Cap IP44)



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
I	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



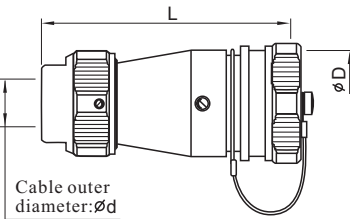
● In-line receptacle with metal clamping-nut B: ZEB IP67



Dimension(mm)	WY16	WY20	WY24	WY28
D	18	22	26	30
L	55	63	66.5	70
Ød	5-6.5	9-10.5	9-10.5	10.5-12.5

Optional cap size see [CLICK >](#)

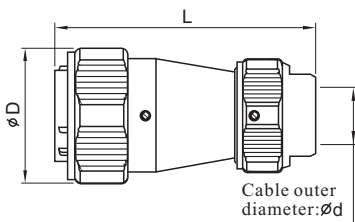
● In-line receptacle with metal clamping-nut: ZE IP67



Dimension(mm)	WY32	WY40	WY48	WY55
D	35	44	52	58
L	90.5	103.5	108	131.6
Ød	15.5-17	18-20	I:18-20 (default,no mark) II:24.5-26	24.5-26

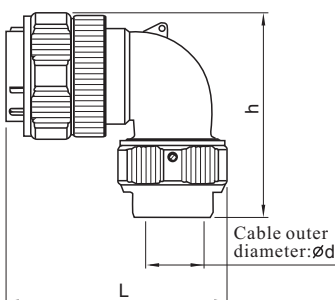
Optional cap size see [CLICK >](#)

● Plug with metal clamping-nut: TE IP67



Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
D	25	29.5	34	38.5	44.5	54	62	68.5
L	54.5	62.5	65	68	88	100	110	131.5
Ød	5-6.5	9-10.5	9-10.5	10.5-12.5	15.5-17	18-20	I:18-20 (default,no mark) II:24.5-26	24.5-26

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

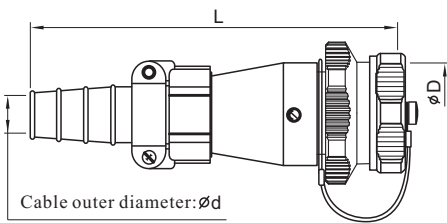


Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
h	43	53	54	58	72	88	103	110.5
L	48	57	59	61	84	90	97	109
Ød	5-6.5	9-10.5	9-10.5	10.5-12.5	15.5-17	18-20	24.5-26	24.5-26





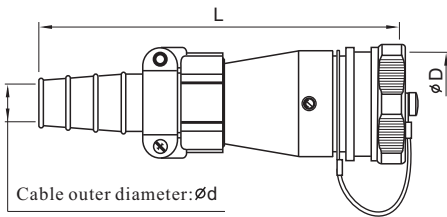
● In-line receptacle with cable clamping plates B: ZIB IP65



Dimension(mm)	WY16	WY20	WY24	WY28
D	18	21.5	25.5	29.5
L	73	88	92	101
$\varnothing d$	7-8	8-10.5	8-10.5	11.5-13.6

Optional cap size see [CLICK >](#)

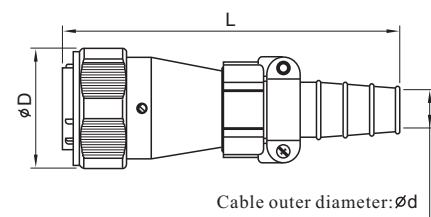
● In-line receptacle with cable clamping plates: ZI IP65



Dimension(mm)	WY32	WY40	WY48	WY55
D	34.5	43.5	51.5	58
L	119	130	137	165
$\varnothing d$	13-15.6	15.5-18.8	I:15.5-18.8 (default,no mark) II:24-28	24-28

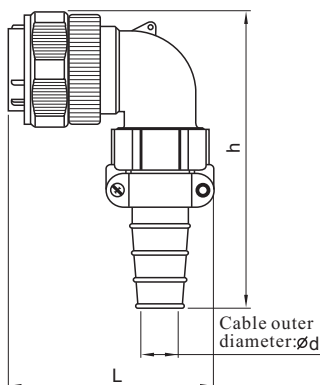
Optional cap size see [CLICK >](#)

● Plug with cable clamping plates: TI IP65



Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
D	25	29.5	34	38.5	44.5	54	62	68.5
L	72.5	87	92	100.5	48.5	130.5	140	163
$\varnothing d$	7-8	8-10.5	8-10.5	11.5-13.6	13-15.6	15.5-18.8	I:15.5-18.8 (default,no mark) II:24-28	24-28

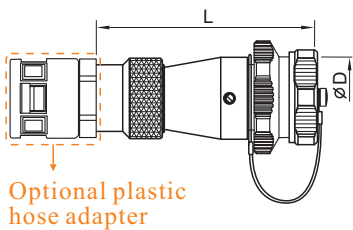
● Plug with angled back shell and cable clamping plates: TV IP65



Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
h	60	80	80	93	103	118	137	140
L	49.5	56.5	58	61	82.5	90	98	108
$\varnothing d$	7-8	8-10.5	8-10.5	11.5-13.6	13-15.6	15.5-18.8	24-28	24-28



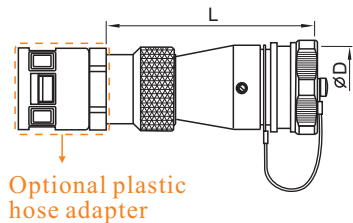
● In-line receptacle for plastic-hose B: ZBB IP55



Dimension(mm)	WY16	WY20	WY24	WY28
D	18	22	26	30
L	54.5	64	67	73
Adapter size	PG7	PG11	PG11	PG16
Hose size	1/4"	3/8"	3/8"	1/2"

Optional cap size see [CLICK >](#)

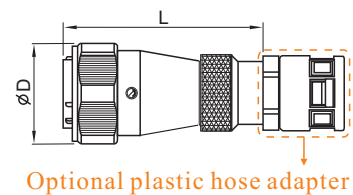
● In-line receptacle for plastic-hose: ZB IP55



Dimension(mm)	WY32	WY40	WY48	WY55
D	35	44	52	58
L	86.5	95	104	120
Adapter size	PG21	PG29	I: PG29 (default, no mark) II: PG36	PG36
Hose size	3/4"	1"	I: 1" (default, no mark) II: 1 1/4"	1 1/4"

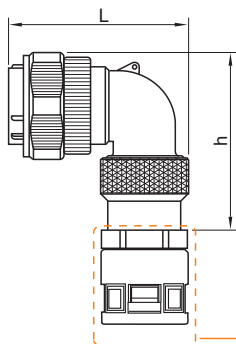
Optional cap size see [CLICK >](#)

● Plug for plastic-hose: TB IP55



Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
D	25	29.5	34	38.5	44.5	54	91	96.5
L	54	62.5	66.5	72.5	87.5	95	105	118
Adapter size	PG7	PG11	PG11	PG16	PG21	PG29	I: PG29 (default, no mark) II: PG36	PG36
Hose size	1/4"	3/8"	3/8"	1/2"	3/4"	1"	I: 1" (default, no mark) II: 1 1/4"	1 1/4"

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

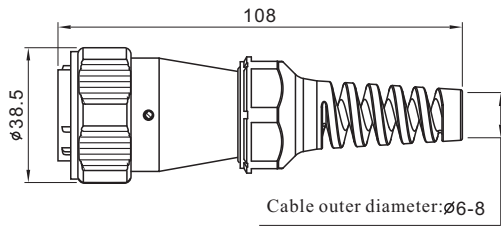


Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
h	44.5	53.5	55	61	70	83	91	96.5
L	47	56.5	57.5	61	82	88.5	95	106
Adapter size	PG7	PG11	PG11	PG16	PG21	PG29	PG36	PG36
Hose size	1/4"	3/8"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/4"

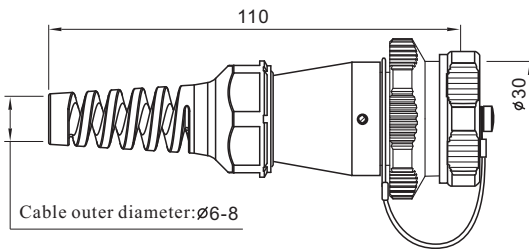
Optional plastic hose adapter



● Plug with strain relief: TX IP67



● In-line receptacle with strain relief: ZXB IP67



★ It can be produced 28 models, other models are customizable

**Solder contact spec**

★ Crimp contact spec [CLICK >](#) ★ Screw contact spec [CLICK >](#)

WY28	2	3	4	7	8	8B	9	10	10B	12	16	17	20	24	26	35
Male contact face view																
Rated current (A)	50	50	25	25	25	60, 5	25, 5	25	10	10	10	10	5	5	5	5
Contact diameter(mm)	φ3.5X2	φ3.5X3	φ2.5X4	φ2.5X7	φ2.5X8	φ5X2 φ1X6	φ2.5X4 φ1X5	φ2.5X10	φ1.5X10	φ1.5X12	φ1.5X16	φ1.5X17	φ1X20	φ1X24	φ1X26	φ1X35
Rated voltage (AC.V)	500	500	500	500	500	500 400	500	500	500	500	500	500	400	400	400	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1200	1200	1200	1200
Contact resistance(mΩ)	0.5	0.5	1	1	1	5, 0.5	1, 5	1	2.5	2.5	2.5	2.5	5	5	5	5
Termination	solder / screw	solder / screw	solder / screw	solder / screw	solder / screw	solder	solder	solder / screw	solder	solder	solder	solder	solder	solder	solder	solder
Wire size (mm <sup>2</sup> /AWG)	≤10/7	≤10/7	≤4/11	≤4/11	≤4/11	≤16/5 ≤0.75/18	≤4/11 ≤0.75/18	≤4/11	≤2/14	≤2/14	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18
Wire size for screw termination	≤6/10	≤6/10	≤1.5/15	≤1.5/15	≤1.5/15	/	/	≤1.5/15	/	/	/	/	/	/	/	/



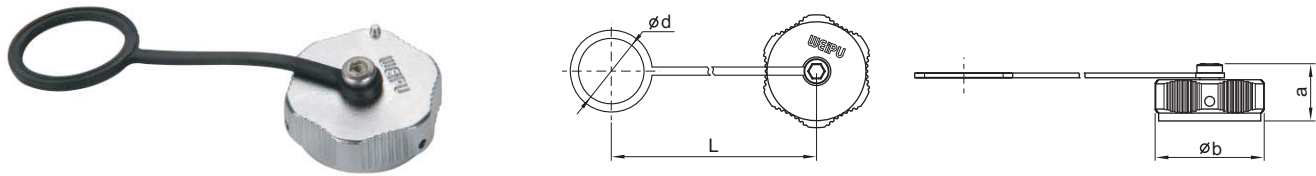


● PVC cable protection sleeve for WS series



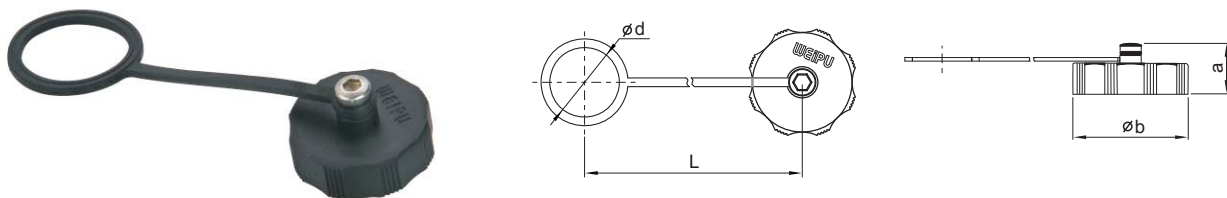
Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
D	12.5	16	16.5	19	25	30	30	36
L	30	38	38	38	51	53	53	59
d	6	6	6	7	13	17.8	17.8	23

● Metal receptacle cover for WY series IP67



Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
a	13.5	14.5	14.5	14.5	17	17	17	17
b	20	29.5	34	38.5	44	54	62	68.5
d	16	20	24	28	32	40	48	55
L	55	60	65	70	90	100	110	120

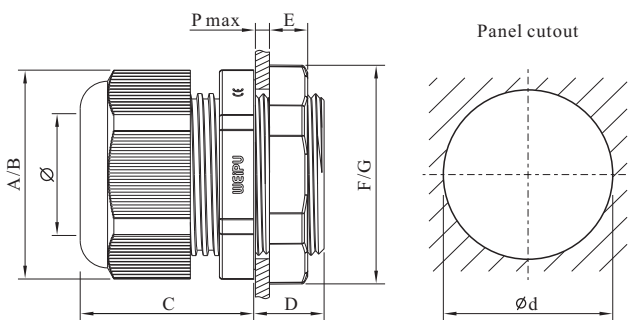
● Plastic receptacle cover for WS and WF series



Dimension(mm)	WS/WF16	WS/WF20	WS/WF24	WS/WF28	WS/WF32	WS/WF40	WS/WF48	WS/WF55
a	14	14.5	14.5	14.5	20	20	20	20
b	21	26	29.5	34	39	48	55.5	62.5
d	16	20	24	28	32	40	48	55
L	55	60	65	70	90	100	110	120



● Cable gland

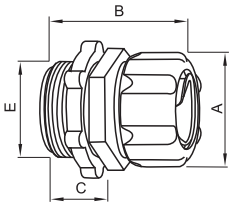


Material Nylon  
 Fire resistance V-0  
 Seal NBR  
 IP rating IP68  
 Temperature -40°C +85 °C  
 Color grey(standard)  
 black(special order)

AG PG	A Diagonal	B Parallel	C Max	D Length	E Thickness	F Diagonal	G Parall	P Max	Ø Cable outer diameter	Ød 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

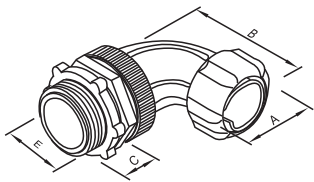


● Metal hose adapter



Part No.	WAB-16	WAB-20	WAB-24	WAB-30	WAB-36
Dimension(mm)					
A	19.6	24.8	29.1	35.7	41.8
B	26.7	33.3	37	37.9	41.5
C	9	14	15	16	17
E	16	20	24	30	36
hose size	—	3/8"	1/2"	3/4"	1"
Thread	M16X1.5	M20X1.5	M24X1.5	M30X2	M36X2

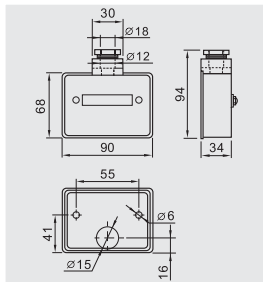
● Angled metal hose adapter



Part No.	WAL-20	WAL-24	WAL-30	WAL-36
Dimension(mm)				
A	24.8	29.1	35.7	41.8
B	48.5	53	59	70
C	14	15	16	17
E	20	24	30	36
hose size	3/8"	1/2"	3/4"	1"
Thread	M20X1.5	M24X1.5	M30X2	M36X2



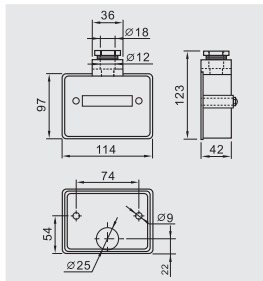
● Junction-box



Rated A	Part No.TYP	Terminal P	Weight(g/pcs)
15A	6005	3P+⊕	120

junction-box

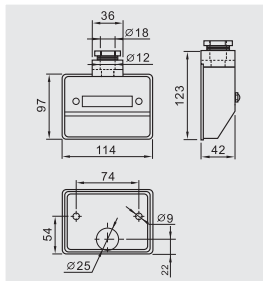
Bottom hole  
 Upper hole (with cable tightening fittings)  
 Electric Inlet  
 Min conducting wire section  $\text{mm}^2$  1.5  
 Max conducting wire section  $\text{mm}^2$  4



Rated A	Part No.TYP	Terminal P	Weight(g/pcs)
30A	6003	3P+N+⊕	230

junction-box

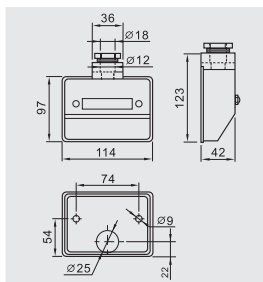
Bottom hole  
 Upper hole (with cable tightening fittings)  
 Electric Inlet  
 Min conducting wire section  $\text{mm}^2$  2.5  
 Max conducting wire section  $\text{mm}^2$  10



Rated A	Part No.TYP	Terminal P	Weight(g/pcs)
30A	6004	3P+N+⊕	200

junction-box

Bottom hole  
 Upper hole (with cable tightening fittings)  
 Electric Inlet  
 Min conducting wire section  $\text{mm}^2$  2.5  
 Max conducting wire section  $\text{mm}^2$  10



Rated A	Part No.TYP	Terminal P	Weight(g/pcs)
63A	6006	3P+N+⊕	248

junction-box

Bottom hole  
 Upper hole (with cable tightening fittings)  
 Electric Inlet  
 Min conducting wire section  $\text{mm}^2$  10  
 Max conducting wire section  $\text{mm}^2$  25



# Solder contact spec

WS16、WF16、WY16	2	3	4	2B	3B	4B	5	7	9	10
Male contact face view										
Rated current (A)	10	10	5	15	15	15	5	5	5	5
Contact diameter(mm)	∅1.5X2	∅1.5X3	∅1X4	∅2X2	∅2X3	∅2X4	∅1X5	∅1X7	∅1X9	∅1X10
Rated voltage (AC.V)	500	500	500	500	500	500	500	400	400	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500	1500	1200	1200	1200
Contact resistance(mΩ)	2.5	2.5	5	2.5	2.5	2.5	5	5	5	5
Insulation resistance (MΩ)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Wire size (mm <sup>2</sup> /AWG)	≤2/14	≤2/14	≤0.75/18	≤2/14	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18

WS20、WF20、WY20	2	3	4	5	6	6B	7	8	9	12	15
Male contact face view											
Rated current (A)	25	25	25	10	5 25	5 30	10	10	5	5	5
Contact diameter(mm)	∅2.5 2	∅2.5 3	∅2.5 4	∅1.5 5	∅1X2 ∅2.5X4	∅1X4 ∅3X2	∅1.5 7	∅1.5 8	∅1 9	∅1 12	∅1 15
Rated voltage (AC.V)	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	1200	1200	1200
Contact resistance(mΩ)	1	1	1	2.5	5 1	5 1	2.5	2.5	5	5	5
Insulation resistance (MΩ)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Wire size (mm <sup>2</sup> /AWG)	≤4/11	≤4/11	≤4/11	≤2/14	≤0.75/18 ≤4/11	≤0.75/18 ≤4/11	≤2/14	≤2/14	≤0.75/18	≤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	5 25	10	10	5 30	5
Contact diameter(mm)	∅2.5X2	∅2.5X3	∅2.5X4	∅1X5 ∅2.5X4	∅1.5X10	∅1.5X12	∅1X9 ∅3X3	∅1X19
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	5 1	2.5	2.5	5 1	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	≤0.75/18 ≤4/11	≤2/14	≤2/14	≤0.75/18 ≤4/11	≤0.75/18

WS28、WF28、WY28	2	3	4	7	8	8B	9	10	10B	12	16	17	20	24	26	35
Male contact face view																
Rated current (A)	50	50	25	25	25	60、5	25、5	25	10	10	10	10	5	5	5	5
Contact diameter(mm)	∅3.5X2	∅3.5X3	∅2.5X4	∅2.5X7	∅2.5X8	∅5X2 ∅1X6	∅2.5X4 ∅1X5	∅2.5X10	∅1.5X10	∅1.5X12	∅1.5X16	∅1.5X17	∅1X20	∅1X24	∅1X26	∅1X35
Rated voltage (AC.V)	500	500	500	500	500	500 400	500	500	500	500	500	500	400	400	400	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1200	1200	1200	1200
Contact resistance(mΩ)	0.5	0.5	1	1	1	5、0.5	1、5	1	2.5	2.5	2.5	2.5	5	5	5	5
Insulation resistance (MΩ)	2000	2000	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	≤4/11	≤4/11	≤2/14	≤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	10 50	10 50	10 50	10 25	25	25	25	10 25	10
Contact diameter(mm)	∅3.5X4	∅1.5X2 ∅3.5X4	∅1.5X5 ∅3.5X3	∅1.5X4 ∅3.5X4	∅1.5X5 ∅2.5X5	∅2.5X10	∅2.5X11	∅2.5X12	∅1.5X9 ∅2.5X4	∅1.5X19
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	2.5 0.5	2.5 0.5	2.5 0.5	2.5 1	1	1	1	2.5 1	2.5
Insulation resistance (MΩ)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Wire size (mm <sup>2</sup> /AWG)	≤10/7	≤2/14 ≤10/7	≤2/14 ≤10/7	≤2/14 ≤10/7	≤2/14 ≤4/11	≤4/11	≤4/11	≤4/11	≤2/14 ≤4/11	≤2/14








WS40、WF40、WY40	5	9	15	26	31	52
Male contact face view						
Rated current (A)	50	25 50	10	10 25	10	5
Contact diameter(mm)	∅3.5X5	∅2.5X5 ∅3.5X4	∅1.5X15	∅1.5X22 ∅2.5X4	∅1.5X31	∅1X52
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	1 0.5	2.5	2.5、1	2.5	5
Insulation resistance (MΩ)	2000	2000	2000	2000	2000	2000
Wire size (mm <sup>2</sup> /AWG)	≤10/7	≤4/11 ≤10/7	≤2/14	≤2/14 ≤4/11	≤2/14	≤0.75/18





WS48、WF48、WY48	5	7	20	27	38	42
Male contact face view						
Rated current (A)	100	50	25	10 25	10 25	10
Contact diameter(mm)	∅5.5X5	∅3.5X7	∅2.5X20	∅1.5X26 ∅2.5X1	∅1.5X33 ∅2.5X5	∅1.5X42
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	2.5、1	2.5、1	2.5
Insulation resistance (MΩ)	2000	2000	2000	2000	2000	2000
Wire size (mm <sup>2</sup> /AWG)	≤25/3	≤10/7	≤4/11	≤2/14 ≤4/11	≤2/14 ≤4/11	≤2/14






WS55、WF55、WY55	4	7	40	53	61
Male contact face view					
Rated current (A)	50 150	50 100	10 25	10 25	10
Contact diameter(mm)	∅3.5X1 ∅10X3	∅3.5X1 ∅5.5X6	∅1.5X25 ∅2.5X15	∅1.5X48 ∅2.5X5	∅1.5X61
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	2.5 1	2.5 1	2.5
Insulation resistance (MΩ)	2000	2000	2000	2000	2000
Wire size (mm <sup>2</sup> /AWG)	≤10/7 ≤70/(2/0)	≤10/7 ≤25/3	≤2/14 ≤4/11	≤2/14 ≤4/11	≤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)	∅1.5X2	∅1.5X3	∅1X4
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)	∅2.5X2	∅2.5X3	∅2.5X4	∅1.5X5	∅1.5X7	∅1X7	∅1X8
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)	∅2.5X4	∅2.5X5	∅1.5X9	∅1X12
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, SY29 WS28, WF28, WY28	2	7	12	15	19
Male contact face view					
Rated current (A)	50	25	10	5	5
Contact diameter(mm)	∅3.5X2	∅2.5X7	∅1.5X12	∅1X15	∅1X19
Rated voltage (AC.V)	500	500	500	400	400
Test voltage(AC.V) 1 min	1500	1500	1500	1200	1200
Contact resistance(mΩ)	0.5	1	2.5	5	5
Insulation resistance (MΩ)	2000	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)	∅3.5X4	∅3.5X4 ∅1.5X2	∅2.5X10	∅1.5X15	∅1.5X19
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)	∅3.5X5	∅2.5X19	∅1.5X31
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)	∅2.5X31	∅1.5X42
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

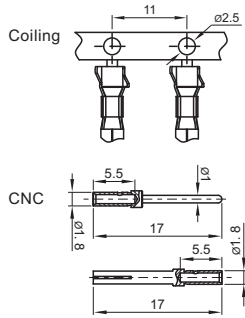
WS55、WF55、WY55	38	61
Male contact face view		
Rated current (A)	25	10
Contact diameter(mm)	∅2.5X38	∅1.5X61
Rated voltage (AC.V)	500	500
Test voltage(AC.V) 1 min	1500	1500
Contact resistance(mΩ)	1	2.5
Insulation resistance (MΩ)	2000	2000



# Crimp contact

## 5A Crimp 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	Stripping length	Male crimp contact p/n	Crimping tool p/n	Removal tool p/n
0.20-0.52mm <sup>2</sup> AWG 24-20	5.5mm	Punching YJ1-17-0.52AU-C die YJ1-17-0.52AU	CT-P20/28	RT-1.0

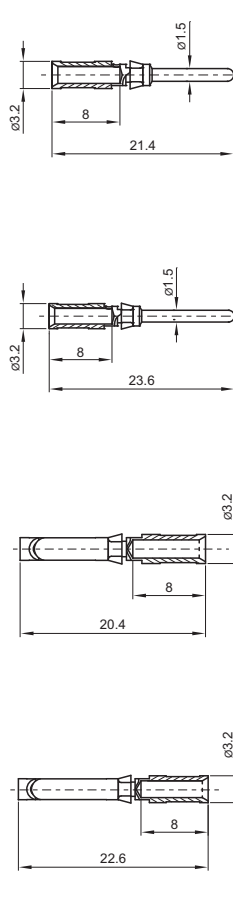
### 5A Female crimp contact

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

Wire size	Stripping length	Female crimp contact p/n	Crimping tool p/n	Removal tool p/n
0.20-0.52mm <sup>2</sup> AWG 24-20	5.5mm	Punching YK1-17-0.52AU-C die YK1-17-0.52AU	CT-P20/28	RT-1.0

## 10A Crimp 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	Stripping length	Male crimp contact p/n	Crimping tool p/n	Removal tool p/n
0.14-0.37mm <sup>2</sup> AWG 26-22	8mm	YJ1.5-21.4-0.37AU	CT-P20/28	RT-1.5
0.5mm <sup>2</sup> AWG 20	8mm	YJ1.5-21.4-0.5AU	CT-P20/28	RT-1.5
0.75-1.0mm <sup>2</sup> AWG 18	8mm	YJ1.5-21.4-1.0AU	CTW-0.14/4	RT-1.5
1.5mm <sup>2</sup> AWG 16	8mm	YJ1.5-21.4-1.5AU	CTW-0.14/4	RT-1.5
2.5mm <sup>2</sup> AWG 14	8mm	YJ1.5-21.4-2.5AU	CTW-0.14/4	RT-1.5

### 10A Male crimp contact

For WS/WF/WY32-55

Wire size	Stripping length	Male crimp contact p/n	Crimping tool p/n	Removal tool p/n
0.14-0.37mm <sup>2</sup> AWG 26-22	8mm	YJ1.5-23.6-0.37AU	CT-P20/28	RT-1.5
0.5mm <sup>2</sup> AWG 20	8mm	YJ1.5-23.6-0.5AU	CT-P20/28	RT-1.5
0.75-1.0mm <sup>2</sup> AWG 18	8mm	YJ1.5-23.6-1.0AU	CTW-0.14/4	RT-1.5
1.5mm <sup>2</sup> AWG 16	8mm	YJ1.5-23.6-1.5AU	CTW-0.14/4	RT-1.5
2.5mm <sup>2</sup> AWG 14	8mm	YJ1.5-23.6-2.5AU	CTW-0.14/4	RT-1.5

### 10A Female crimp contact

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

Wire size	Stripping length	Female crimp contact p/n	Crimping tool p/n	Removal tool p/n
0.14-0.37mm <sup>2</sup> AWG 26-22	8mm	YK1.5-20.4-0.37AU	CT-P20/28	RT-1.5
0.5mm <sup>2</sup> AWG 20	8mm	YK1.5-20.4-0.5AU	CT-P20/28	RT-1.5
0.75-1.0mm <sup>2</sup> AWG 18	8mm	YK1.5-20.4-1.0AU	CTW-0.14/4	RT-1.5
1.5mm <sup>2</sup> AWG 16	8mm	YK1.5-20.4-1.5AU	CTW-0.14/4	RT-1.5
2.5mm <sup>2</sup> AWG 14	8mm	YK1.5-20.4-2.5AU	CTW-0.14/4	RT-1.5

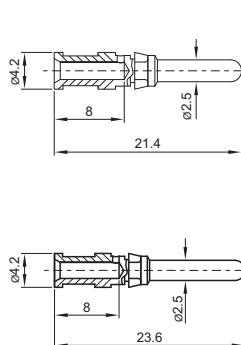
### 10A Female crimp contact

For WS/WF/WY32-55

Wire size	Stripping length	Female crimp contact p/n	Crimping tool p/n	Removal tool p/n
0.14-0.37mm <sup>2</sup> AWG 26-22	8mm	YK1.5-22.6-0.37AU	CT-P20/28	RT-1.5
0.5mm <sup>2</sup> AWG 20	8mm	YK1.5-22.6-0.5AU	CT-P20/28	RT-1.5
0.75-1.0mm <sup>2</sup> AWG 18	8mm	YK1.5-22.6-1.0AU	CTW-0.14/4	RT-1.5
1.5mm <sup>2</sup> AWG 16	8mm	YK1.5-22.6-1.5AU	CTW-0.14/4	RT-1.5
2.5mm <sup>2</sup> AWG 14	8mm	YK1.5-22.6-2.5AU	CTW-0.14/4	RT-1.5

## 25A Crimp 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	Stripping length	Male crimp contact p/n	Crimping tool p/n	Removal tool p/n
0.75-1.0mm <sup>2</sup> AWG 18	8mm	YJ2.5-21.4-1.0AU	CTW-0.14/4	RT-2.5
1.5mm <sup>2</sup> AWG 16	8mm	YJ2.5-21.4-1.5AU	CTW-0.14/4	RT-2.5
2.5mm <sup>2</sup> AWG 14	8mm	YJ2.5-21.4-2.5AU	CTW-0.14/4	RT-2.5
4.0mm <sup>2</sup> AWG 12	8mm	YJ2.5-21.4-4.0AU	CTW-0.14/4 CT-4/10	RT-2.5

### 25A Male crimp contact

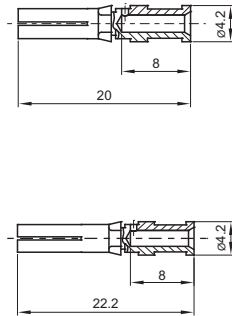
For WS/WF/WY32-55

Wire size	Stripping length	Male crimp contact p/n	Crimping tool p/n	Removal tool p/n
0.75-1.0mm <sup>2</sup> AWG 18	8mm	YJ2.5-23.6-1.0AU	CTW-0.14/4	RT-2.5
1.5mm <sup>2</sup> AWG 16	8mm	YJ2.5-23.6-1.5AU	CTW-0.14/4	RT-2.5
2.5mm <sup>2</sup> AWG 14	8mm	YJ2.5-23.6-2.5AU	CTW-0.14/4	RT-2.5
4.0mm <sup>2</sup> AWG 12	8mm	YJ2.5-23.6-4.0AU	CTW-0.14/4 CT-4/10	RT-2.5

# Crimp contact

## 25A Crimp 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	Stripping length	Female crimp contact p/n	Crimping tool p/n	Removal tool p/n
0.75-1.0mm <sup>2</sup> AWG 18	8mm	YK2.5-20-1.0AU	CTW-0.14/4	RT-2.5
1.5mm <sup>2</sup> AWG 16	8mm	YK2.5-20-1.5AU	CTW-0.14/4	RT-2.5
2.5mm <sup>2</sup> AWG 14	8mm	YK2.5-20-2.5AU	CTW-0.14/4	RT-2.5
4.0mm <sup>2</sup> AWG 12	8mm	YK2.5-20-4.0AU	CTW-0.14/4 CT-4/10	RT-2.5

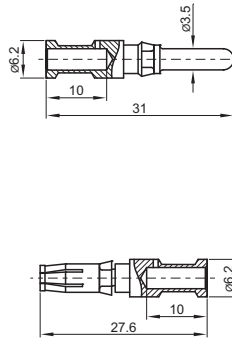
### 25A Female crimp contact

For WS/WF/WY32-55

Wire size	Stripping length	Female crimp contact p/n	Crimping tool p/n	Removal tool p/n
0.75-1.0mm <sup>2</sup> AWG 18	8mm	YK2.5-22.2-1.0AU	CTW-0.14/4	RT-2.5
1.5mm <sup>2</sup> AWG 16	8mm	YK2.5-22.2-1.5AU	CTW-0.14/4	RT-2.5
2.5mm <sup>2</sup> AWG 14	8mm	YK2.5-22.2-2.5AU	CTW-0.14/4	RT-2.5
4.0mm <sup>2</sup> AWG 12	8mm	YK2.5-22.2-4.0AU	CTW-0.14/4 CT-4/10	RT-2.5

## 50A Crimp 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	Stripping length	Male crimp contact p/n	Crimping tool p/n	Removal tool p/n
1.5mm <sup>2</sup> AWG 16	10mm	YJ3.5-31-1.5AU	CTW-0.14/4	RT-3.5
2.5mm <sup>2</sup> AWG 14	10mm	YJ3.5-31-2.5AU	CTW-0.14/4	RT-3.5
4.0mm <sup>2</sup> AWG 12	10mm	YJ3.5-31-4.0AU	CTW-0.14/4 CT-4/10	RT-3.5
6.0mm <sup>2</sup> AWG 10	10mm	YJ3.5-31-6.0AU	CT-4/10	RT-3.5
10.0mm <sup>2</sup> AWG 7	10mm	YJ3.5-31-10.0AU	CT-4/10	RT-3.5

### 50A Female crimp contact

For WS/WF/WY32-55

Wire size	Stripping length	Female crimp contact p/n	Crimping tool p/n	Removal tool p/n
1.5mm <sup>2</sup> AWG 16	10mm	YK3.5-27.6-1.5AU	CTW-0.14/4	RT-3.5
2.5mm <sup>2</sup> AWG 14	10mm	YK3.5-27.6-2.5AU	CTW-0.14/4	RT-3.5
4.0mm <sup>2</sup> AWG 12	10mm	YK3.5-27.6-4.0AU	CTW-0.14/4 CT-4/10	RT-3.5
6.0mm <sup>2</sup> AWG 10	10mm	YK3.5-27.6-6.0AU	CT-4/10	RT-3.5
10.0mm <sup>2</sup> AWG 7	10mm	YK3.5-27.6-10.0AU	CT-4/10	RT-3.5

## Crimp tool and Removal tool

### Crimp tool

For crimping the male / female contacts



Part number	Crimping wire range
CT-P20/28	0.08-0.52mm <sup>2</sup> AWG 28-20
CTW-0.14/4	0.14-4mm <sup>2</sup> AWG 25-11
CT-4/10	4-10mm <sup>2</sup> AWG 11-7




### Removal tool





For taking out male / female contacts












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

## Screw contact spec





SF20, SA20, WS20, WF20, WY20	2	3	4
Male contact face view			
Rated current (A)	10	10	10
Contact diameter(mm)	ø2.5X2	ø2.5X3	ø2.5X4
Rated voltage (AC.V)	500	500	500
Test voltage(AC.V) 1 min	1500	1500	1500
Contact resistance (mΩ)	1	1	1
Wire size (mm <sup>2</sup> / AWG)	≤1.5/15	≤1.5/15	≤1.5/15



SP21, SY21, WP20	2	3	4	5
Male contact face view				
Rated current (A)	10	10	10	10
Contact diameter(mm)	ø3 2	ø3 3	ø3 4	ø3 5
Rated voltage (AC.V)	500	500	500	500
Test voltage(AC.V) 1 min	1500	1500	1500	1500
Contact resistance (mΩ)	1	1	1	1
Wire size (mm <sup>2</sup> / AWG)	≤1.5/15	≤1.5/15	≤1.5/15	≤1.5/15



WS24, WF24, WY24	2	3	4
Male contact face view			
Rated current (A)	10	10	10
Contact diameter(mm)	ø2.5X2	ø2.5X3	ø2.5X4
Rated voltage (AC.V)	500	500	500
Test voltage(AC.V) 1 min	1500	1500	1500
Contact resistance (mΩ)	1	1	1
Wire size (mm <sup>2</sup> / AWG)	≤1.5/15	≤1.5/15	≤1.5/15

SA28, SP29, SY29 WS28, WF28, WY28	2	3	4	7	8	10
Male contact face view						
Rated current (A)	32	32	10	10	10	10
Contact diameter(mm)	ø3.5X2	ø3.5X3	ø2.5X4	ø2.5X7	ø2.5X8	ø2.5X10
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)	0.5	0.5	1	1	1	1
Wire size (mm <sup>2</sup> / AWG)	≤6/10	≤6/10	≤1.5/15	≤1.5/15	≤1.5/15	≤1.5/15



## Screw contact spec






WS32、WF32、WY32	4	10B	11	12
Male contact face view				
Rated current (A)	32	10	10	10
Contact diameter(mm)	∅3.5X4	∅2.5X10	∅2.5X11	∅2.5X12
Rated voltage (AC.V)	500V	500V	500V	500V
Test voltage(AC.V) 1 min	1500V	1500V	1500V	1500V
Contact resistance(mΩ)	0.5	1	1	1
Insulation resistance (MΩ)	2000	2000	2000	2000
Wire size (mm <sup>2</sup> /AWG)	≤6/10	≤1.5/15	≤1.5/15	≤1.5/15


WS40、WF40、WY40	5	9
Male contact face view		
Rated current (A)	32	10 32
Contact diameter(mm)	∅3.5X5	∅2.5X5 ∅3.5X4
Rated voltage (AC.V)	500	500
Test voltage(AC.V) 1 min	1500	1500
Contact resistance(mΩ)	0.5	1 0.5
Insulation resistance (MΩ)	2000	2000
Wire size (mm <sup>2</sup> /AWG)	≤6/10	≤1.5/15 ≤6/10



WS48、WF48、WY48	7	20
Male contact face view		
Rated current (A)	32	10
Contact diameter(mm)	∅3.5X7	∅2.5X20
Rated voltage (AC.V)	500	500
Test voltage(AC.V) 1 min	1500	1500
Contact resistance(mΩ)	0.5	1
Insulation resistance (MΩ)	2000	2000
Wire size (mm <sup>2</sup> /AWG)	≤6/10	≤1.5/15

## Solder connect to crimp

SF16, SA16, SP17, SY17 WS16, WF16, WY16	2	3
Male contact face view		
Rated current (A)	10	10
Contact diameter(mm)	Ø1.5X2	Ø1.5X3
Rated voltage (AC.V)	500	500
Test voltage(AC.V) 1 min	1500	1500
Contact resistance(mΩ)	2.5	2.5
Insulation resistance (MΩ)	2000	2000


SF20, SA20, WS20, WF20, WY20	2	3	4	5	7
Male contact face view					
Rated current (A)	25	25	25	10	10
Contact diameter(mm)	Ø2.5X2	Ø2.5X3	Ø2.5X4	Ø1.5X5	Ø1.5X7
Rated voltage (AC.V)	500	500	500	500	500
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500
Contact resistance(mΩ)	1	1	1	2.5	2.5
Insulation resistance (MΩ)	2000	2000	2000	2000	2000


SA28, WS28, WF28, WY28	7
Male contact face view	
Rated current (A)	25
Contact diameter(mm)	Ø2.5X7
Rated voltage (AC.V)	500
Test voltage(AC.V) 1 min	1500
Contact resistance(mΩ)	1
Insulation resistance (MΩ)	2000


WS32、WF32、WY32	4	19
Male contact face view		
Rated current (A)	50	10
Contact diameter(mm)	Ø3.5X4	Ø1.5X19
Rated voltage (AC.V)	500	500
Test voltage(AC.V) 1 min	1500	1500
Contact resistance(mΩ)	0.5	2.5
Insulation resistance (MΩ)	2000	2000





## Solder connect to crimp


WS40、WF40、WY40	31
Male contact face view	
Rated current (A)	10
Contact diameter(mm)	Ø1.5X31
Rated voltage (AC.V)	500
Test voltage(AC.V) 1 min	1500
Contact resistance(mΩ)	2.5
Insulation resistance (MΩ)	2000


WS48、WF48、WY48	42
Male contact face view	
Rated current (A)	10
Contact diameter(mm)	Ø1.5X42
Rated voltage (AC.V)	500
Test voltage(AC.V) 1 min	1500
Contact resistance(mΩ)	2.5
Insulation resistance (MΩ)	2000

WS55、WF55、WY55	61
Male contact face view	
Rated current (A)	10
Contact diameter(mm)	Ø1.5X61
Rated voltage (AC.V)	500
Test voltage(AC.V) 1 min	1500
Contact resistance(mΩ)	2.5
Insulation resistance (MΩ)	2000

## Screw connect to crimp

SF20, SA20, WS20, WF20, WY20	2	3
Male contact face view		
Rated current (A)	25	25
Contact diameter(mm)	Ø2.5X2	Ø2.5X3
Rated voltage (AC.V)	500	500
Test voltage(AC.V) 1 min	1500	1500
Contact resistance(mΩ)	1	1
Insulation resistance (MΩ)	2000	2000

SA28, WS28, WF28, WY28	7
Male contact face view	
Rated current (A)	25
Contact diameter(mm)	Ø2.5X7
Rated voltage (AC.V)	500
Test voltage(AC.V) 1 min	1500
Contact resistance(mΩ)	1
Insulation resistance (MΩ)	2000

WS32、WF32、WY32	4
Male contact face view	
Rated current (A)	50
Contact diameter(mm)	Ø3.5X4
Rated voltage (AC.V)	500
Test voltage(AC.V) 1 min	1500
Contact resistance(mΩ)	0.5
Insulation resistance (MΩ)	2000



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