

CIRCULAR CONNECTORS

Connecting the world, connecting the future



POWER



www.weipu.cn

We are delighted to listen to your ideas.
If you have any needs, please feel free to
contact us. We are willing to provide you
with advice and create a tailored solution
that perfectly suits your needs.

COMPANY PROFILE

64000+^{m²}
Factory Area

54+
Patents

5000+
Domestic and International
Customers

90+
The product is widely used
in various countries

Guangdong Weipu Electrical Co., Ltd. was established in 1996 and is a high-tech enterprise integrating the research and development, manufacturing, marketing, and service of connectors, industrial waterproof connector devices, and cable assembly.

Weipu Electric has developed over 60 product series to date, obtaining 54 national patents, with products applied in more than 90 countries. After years of steady operation and rapid development, Weipu has received numerous recognitions, successively becoming a member of the "National Electrical Accessories Standardization Technical Committee" and the drafting unit of the national standard GB/T11918.

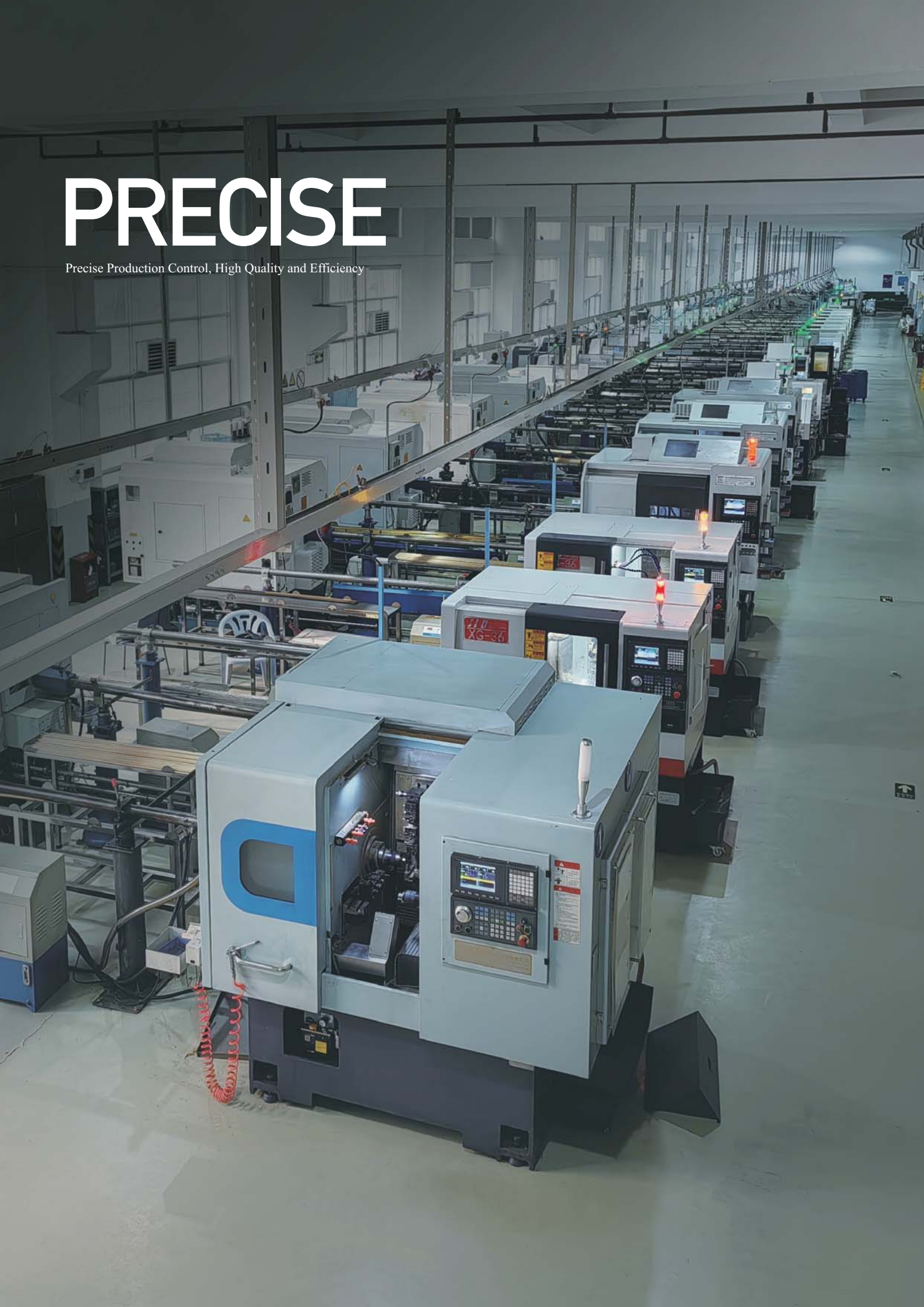
Weipu boasts a rich product line with a comprehensive range, including circular connectors, industrial connectors, heavy-duty connectors, distribution boxes, cable assembly, cable gland, and accessories. With intelligent production equipment and high-configuration testing devices, Weipu offers over 70,000 varieties of products, with an annual production of 45 million units.

Weipu people keep in mind the mission of "synchronizing Chinese connector technology with the world," responding to "Made in China 2025." We are committed to the path of refinement, standardization, and globalization, striving to create a world-class brand in the connector field.



PRECISE

Precise Production Control, High Quality and Efficiency



Our production process is controlled by an intelligent system, with each step closely connected and operating efficiently, significantly reducing production time and enhancing overall efficiency. Relying on advanced equipment, we can quickly respond to market changes, winning customer trust with high-quality products. We are steadily advancing on the path of high-quality development, setting industry benchmarks and creating a bright future.



Fully automatic 12 station CNC machining center



Imported precision core CNC lathe

QUALITY

Rigorous testing ensures product quality



Connector vibration detection

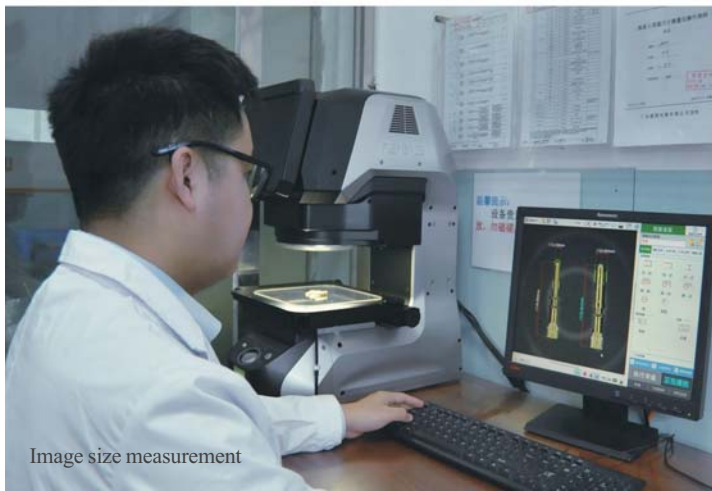


Image size measurement

Driven by an unwavering commitment to quality and a deep sense of responsibility to our customers, Weipu devotes immense effort and dedication to the product testing phase. From the careful selection of raw materials to the final emergence of the finished product, each step is meticulously tested.

It is this meticulous approach to testing and control that makes Weipu's products exceptionally reliable and safe. In every industrial domain, we have earned the trust and acclaim of our customers through our unparalleled reliability and safety.meticulous approach to testing and control that makes Weipu's products exceptionally reliable and safe.

Series

Page

Push-pull Self-latching Connector

Series >

01/01-22

IP rating: B, P series: IP50 W series: IP68

Coupling: B, P series: push-pull self-latching W series: screw coupling

No. of contact: 1B: 2-16 1P: 2-14
 2B: 2-32 2P: 2-32
 3B: 2-30 3W: 2-30



WK

Series >

02/01-12

IP rating: IP68

Coupling: Lock hook connection



No. of contact: WK16: 2-9 WK24: 2-19
 WK20: 2-15 WK28: 2-35



M23X

Series >

03/01-08

IP rating: IP67

Coupling: threaded



No. of contact: for power: 6, 8
 for sinal: 9,12,17,19



SF

Series >

04/01-20

IP rating: IP67

Coupling: push-pull

No. of contact: SF6:2-5
 SF8:2-8 SF16:2-10
 SF10:2-5 SF20:2-15
 SF12:2-9 SF24:2-19

SF Anti-bending Series



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



SF24 Signal、Data Series



IP rating: IP67

Coupling: push-pull

No. of contact: LC, RJ45,
 USB3.0, HDMI2.0

Series

Page

SA

Series >

05/01-14

IP rating: IP67

Coupling: push-pull

No. of contact: SA6:2-5 SA16:2-10
SA8:2-8 SA20:2-15
SA10:2-5 SA24:2-19
SA12:2-9 SA28:2-35

SA24 Signal, Data Series



IP rating: IP67

Coupling: push-pull

No. of contact: LC, RJ45,
USB3.0, HDMI2.0



ST

Series >

06/01-02

IP rating: IP67

Coupling: threaded

No. of contact: 2-9



SP

Series >

07/01-12

IP rating: IP68

Coupling: threaded

No. of contact: SP11: 2-5 SP21: 1-15
SP13: 2-9 SP25: 2-19
SP17: 1-10 SP29: 2-35



SY

Series >

08/01-14

IP rating: IP67

Coupling: bayonet

No. of contact: SY11:2-5 SY21: 1-15
SY13:2-9 SY25: 2-19
SY17:1-10 SY29: 2-35

SY25 Signal, Data Series



IP rating: IP67

Coupling: bayonet

No. of contact: LC, RJ45,
USB3.0, HDMI2.0



WA22

Series >

09/01-04

IP rating: IP67

Coupling: threaded

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



Series

Page

WAC3

Series >

10/01-02

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



RJ45F

Series >

11/01-02

IP rating: IP67
Coupling: bayonet



WP

Series >

12/01-02

IP rating: IP44, IP55
Coupling: bayonet
No. of contact: 1-15



WT

Series >

13/01-02

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



WL52

Series >

14/01-06

IP rating: IP66, IP67
Coupling: threaded
No. of contact: 19



Series

Page

WD

Series >

15/01-02

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



WB

Series >

16/01-04

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



WS

Series >

17/01-16

IP rating: for indoor only
Coupling: threaded
No. of contact: 1-61



WF

Series >

18/01-14

IP rating: IP55, IP65, IP67
Coupling: threaded
No. of contact: 1-61



WY

Series >

19/01-14

IP rating: IP55, IP65, IP66, IP67
Coupling: bayonet
No. of contact: 1-61

WY12 Series

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

WY24 Signal, Data Series

IP rating: IP67
Coupling: bayonet
No. of contact: LC, RJ45,
USB3.0, HDMI2.0



Series

Page

Electrical accessories >

20/01-04

Cable gland
Adapter
Junction-box



Solder contact spec >

21/01-02

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



Crimp contact spec and tool >

22/01-05

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



Screw contact spec >

23/01-02

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



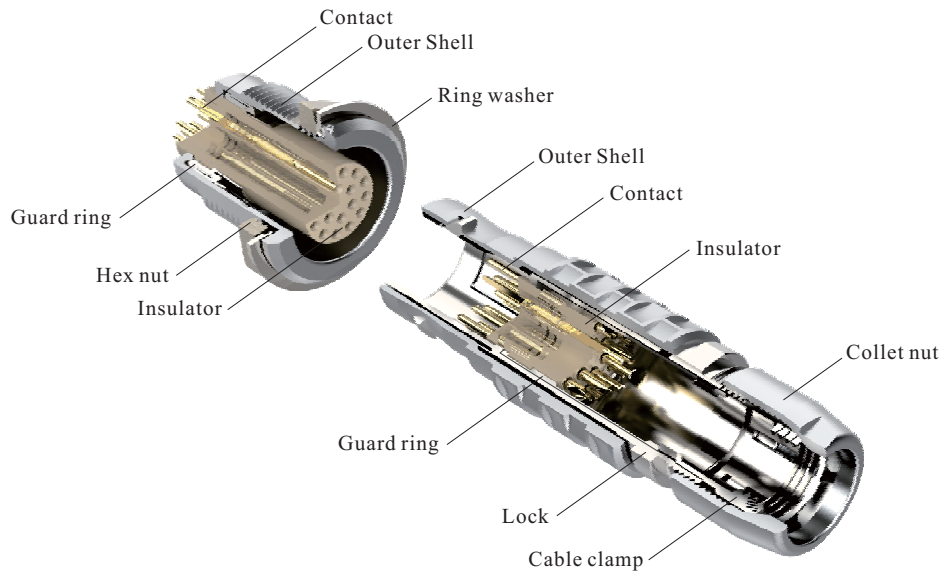
Standard of the Push-Pull
self-latching system
— keying system

B
Series



IP50

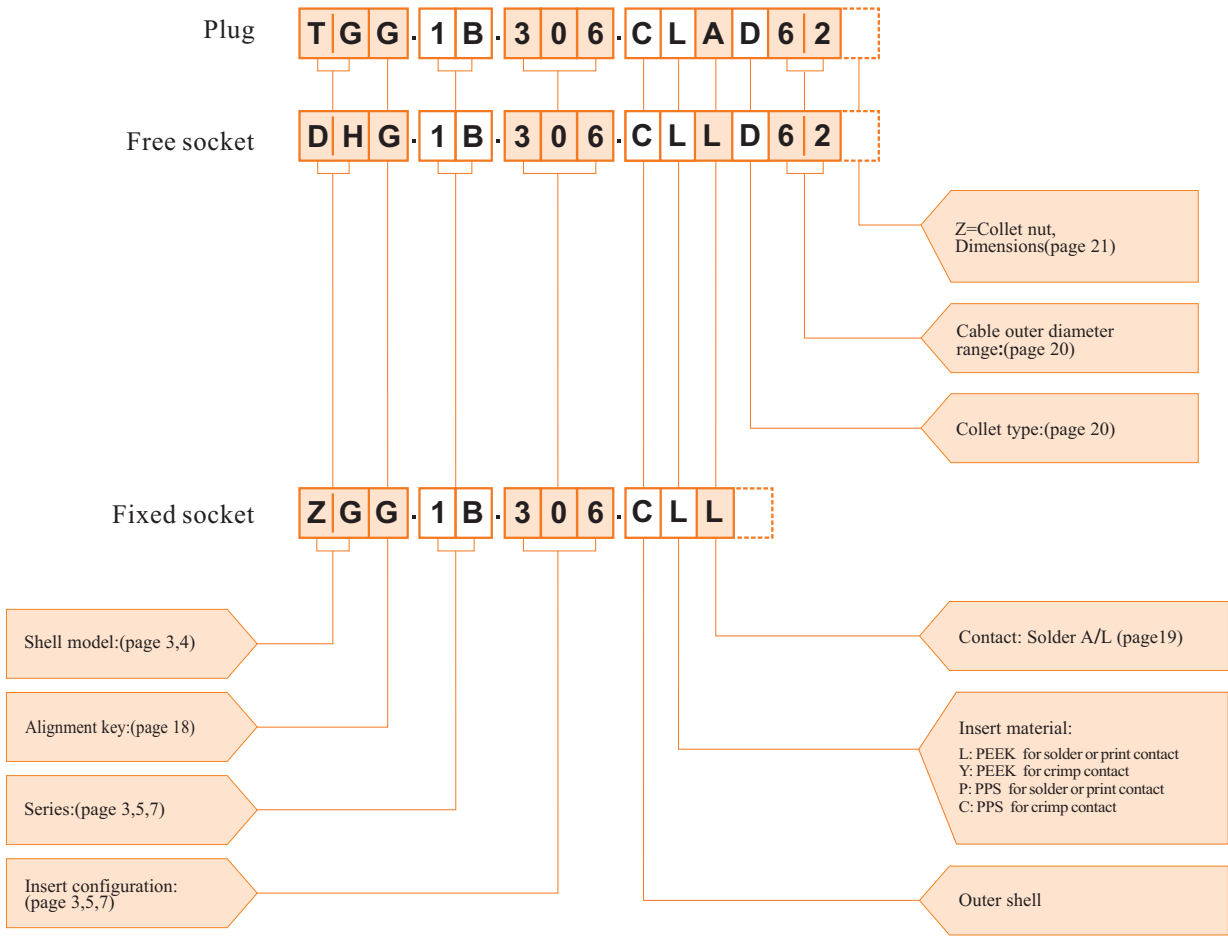
● Part Section Showing
Internal Components



Material and spec

Specifications	B Series connector	
Coupling	Push-pull self-latching connector	
Shell	Outer shell in chrome-plated brass	
Insert material	PEEK	PPS
Contact material	Brass with gold plating	
IP rating	IP50 (mated)	
Mating cycle	>5000	
Temperature range	-55°C~+250°C	-55°C~+250°C
Insulation impedance	≥100MΩ	
Shielding efficiency	at 10MHz >75dB/at 1GHz >40dB	
Salt spray test	>144 hrs	>48 hrs

Part Numbering System



Optional configs

TGG.1B.306.CLAD62 = straight plug with key (G) and cable collet, 1B series, multipole type with 6 contacts, outer shell in chrome-plated brass, PEEK insulator, male solder contacts, D type collet for 5.3mm-6.2mm diameter cable.

ZGG.1B.306.CLL = fixed socket, nut fixing, with key (G), 1B series, multipole type with 6 contacts, outer shell in chrome-plated brass, PEEK extended insulator, female crimp contacts.



1B Series Insert configuration

Insert configuration		Reference	Contact		Contact type				Test voltage (kV rms)				Rated current (A)
Plug	Fixed socket		Number of contact	Cable (mm)	Solder	Crimp	Print	Print (elbow)	Solder		Crimp		
									Contact ↑ Contact	Contact ↑ Housing	Contact ↑ Contact	Contact ↑ Housing	
		302	2	1.3	●	●	●	●	1.50	1.35	1.70	1.45	15.0
									Contact ↑ Contact	Contact ↑ Housing	Contact ↑ Contact	Contact ↑ Housing	
<p>TGG Straight plug, key(G), cable collet</p>		303	3	1.3	●	●	●	●	1.30	1.15	1.60	1.85	12.0
<p>TGG Straight plug, key(G), cable collet and nut for fitting a bend relief Note: The bend relief must be ordered separately (page 21)</p>		304	4	0.9	●	●	●	●	1.35	1.45	1.70	1.80	10.0
<p>DHG Free socket, key(G), cable collet</p>		305	5	0.9	●	●	●	●	1.25	1.15	1.30	1.55	9.0
<p>DHG Free socket, key(G), cable collet and nut for fitting a bend relief Note: The bend relief must be ordered separately (page 21)</p>		306	6	0.7	●	●	●	●	1.05	1.20	1.35	1.45	7.0
<p>DHG Free socket, key(G), cable collet</p>		307	7	0.7	●	●	●	●	0.95	1.05	1.45	1.45	7.0
<p>DHG Free socket, key(G), cable collet and nut for fitting a bend relief Note: The bend relief must be ordered separately (page 21)</p>		308	8	0.7	●	●	●	●	0.95	1.15	1.30	1.30	5.0
<p>DHG Free socket, key(G), cable collet and nut for fitting a bend relief Note: The bend relief must be ordered separately (page 21)</p>		310	10	0.5	●	● ¹⁾	●	●	0.90	1.50	1.20	1.80	2.5
<p>DHG Free socket, key(G), cable collet and nut for fitting a bend relief Note: The bend relief must be ordered separately (page 21)</p>		314	14	0.5	●	● ¹⁾	●	●	0.80	0.95	0.95	1.60	2.0
<p>DHG Free socket, key(G), cable collet and nut for fitting a bend relief Note: The bend relief must be ordered separately (page 21)</p>		316	16	0.5	●	● ¹⁾	●	●	0.80	1.25	0.95	1.60	1.5
<p>DHG Free socket, key(G), cable collet and nut for fitting a bend relief Note: The bend relief must be ordered separately (page 21)</p>													

- Regular model, preferred
- In development
- ¹⁾for male contacts

Calculation Standard: Working Voltage = Test Voltage / 3
Note: The maximum admissible operating voltage depends upon the national or international standards in force for the application in question. Air and creepage distances impact the operating voltage.

1B Series Insert configuration



Male solder contacts		Female solder contacts		Insert configuration		Contact		Contact type				Test voltage (kV rms)				Rated current (A)		
Male crimp contacts		Female crimp contacts		Plug	Fixed socket	Reference	Number of contact	Cable (mm)	Solder	Crimp	Print	Print (elbow)	Solder		Crimp			
													Contact	Housing	Contact		Housing	
						302	2	1.3	●	●	●	●	1.50	1.35	1.70		1.45	15.0
<p>ZGG Fixed socket, nut fixing, key(G)</p>																		
						303	3	1.3	●	●	●	●	1.30	1.15	1.60	1.85	12.0	
						304	4	0.9	●	●	●	●	1.35	1.45	1.70	1.80	10.0	
						305	5	0.9	●	●	●	●	1.25	1.15	1.30	1.55	9.0	
						306	6	0.7	●	●	●	●	1.05	1.20	1.35	1.45	7.0	
						307	7	0.7	●	●	●	●	0.95	1.05	1.45	1.45	7.0	
						308	8	0.7	●	●	●	●	0.95	1.15	1.30	1.30	5.0	
						310	10	0.5	●	● ¹⁾	●	●	0.90	1.50	1.20	1.80	2.5	
						314	14	0.5	●	● ¹⁾	●	●	0.80	0.95	0.95	1.60	2.0	
						316	16	0.5	●	● ¹⁾	●	●	0.80	1.25	0.95	1.60	1.5	

- Regular model, preferred
- In development
- ¹⁾for male contacts

Calculation Standard: Working Voltage = Test Voltage / 3

Note: The maximum admissible operating voltage depends upon the national or international standards in force for the application in question. Air and creepage distances impact the operating voltage.



2B Series Insert configuration

Male solder contacts		Female solder contacts		Insert configuration		Reference		Contact		Contact type				Test voltage (kV rms)				Rated current (A)
Male crimp contacts		Female crimp contacts		Plug	Fixed socket	Number of contact	Cable (mm)	Solder	Crimp	Print	Print (elbow)	Solder		Crimp				
												Contact ↓ Contact	Contact ↑ Housing	Contact ↓ Contact	Contact ↑ Housing			
<p>TGG Straight plug, key(G), cable collet</p>						302	2	2.0	●	●	●	●	2.10	1.75	2.85	2.70	25.0	
<p>TGG Straight plug, key(G), cable collet and nut for fitting a bend relief Note: The bend relief must be ordered separately (page 21)</p>						303	3	1.6	●	●	●	●	2.40	1.85	1.90	1.90	17.0	
						304	4	1.3	●	●	●	●	1.85	1.85	2.20	2.20	15.0	
						305	5	1.3	●	●	●	●	1.75	1.60	2.15	2.15	14.0	
						306	6	1.3	●	●	●	●	1.35	1.45	2.00	2.35	12.0	
						307	7	1.3	●	●	●	●	1.75	1.25	1.95	2.15	11.0	
						308	8	0.9	●	●	●	●	1.50	1.25	1.95	1.95	10.0	
						310	10	0.9	●	●	●	●	1.45	1.30	1.80	2.10	8.0	
						312	12	0.7	●	●	●	●	1.25	1.35	1.65	2.00	7.0	
<p>DHG Free socket, key(G), cable collet</p>						314	14	0.7	●	●	●	●	1.15	1.35	1.55	1.95	6.5	
						316	16	0.7	●	●	●	●	0.95	1.25	1.55	1.75	6.0	
						318	18	0.7	●	●	●	●	0.85	1.20	1.45	2.10	5.5	
						319	19	0.7	●	●	●	●	0.95	1.25	1.55	1.65	5.0	
						326	26	0.5	●	●	●	●	0.95	1.30	/	/	2.0	
						332	32	0.5	●	●	●	●	0.70	1.20	/	/	1.5	

- Regular model, preferred
- In development

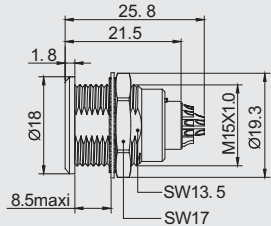
Calculation Standard: Working Voltage = Test Voltage / 3

Note: The maximum admissible operating voltage depends upon the national or international standards in force for the application in question. Air and creepage distances impact the operating voltage.

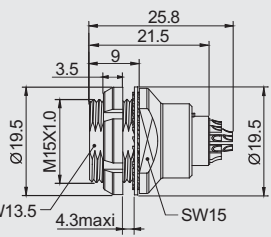
2B Series Insert configuration



Male solder contacts		Female solder contacts		Insert configuration		Contact		Contact type				Test voltage (kV rms)				Rated current (A)	
Male crimp contacts		Female crimp contacts		Plug	Fixed socket	Reference	Number of contact	Cable (mm)	Solder	Crimp	Print	Print (elbow)	Solder		Crimp		
													Contact Contact	Contact Housing	Contact Contact		Contact Housing



ZGG
Fixed socket, nut fixing, key(G)



ZEG
Fixed socket, nut fixing, key(G)
Note: Panel cut-out, nut fixing torque, (page21)

		302	2	2.0	●	●	●	●	2.10	1.75	2.85	2.70	25.0
		303	3	1.6	●	●	●	●	2.40	1.85	1.90	1.90	17.0
		304	4	1.3	●	●	●	●	1.85	1.85	2.20	2.20	15.0
		305	5	1.3	●	●	●	●	1.75	1.60	2.15	2.15	14.0
		306	6	1.3	●	●	●	●	1.35	1.45	2.00	2.35	12.0
		307	7	1.3	●	●	●	●	1.75	1.25	1.95	2.15	11.0
		308	8	0.9	●	●	●	●	1.50	1.25	1.95	1.95	10.0
		310	10	0.9	●	●	●	●	1.45	1.30	1.80	2.10	8.0
		312	12	0.7	●	●	●	●	1.25	1.35	1.65	2.00	7.0
		314	14	0.7	●	●	●	●	1.15	1.35	1.55	1.95	6.5
		316	16	0.7	●	●	●	●	0.95	1.25	1.55	1.75	6.0
		318	18	0.7	●	●	●	●	0.85	1.20	1.45	2.10	5.5
		319	19	0.7	●	●	●	●	0.95	1.25	1.55	1.65	5.0
		326	26	0.5	●	●	●	●	0.95	1.30	/	/	2.0
		332	32	0.5	●	●	●	●	0.70	1.20	/	/	1.5

- Regular model, preferred
- In development

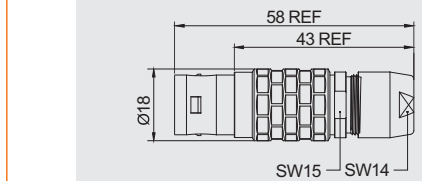
Calculation Standard: Working Voltage = Test Voltage / 3

Note: The maximum admissible operating voltage depends upon the national or international standards in force for the application in question. Air and creepage distances impact the operating voltage.

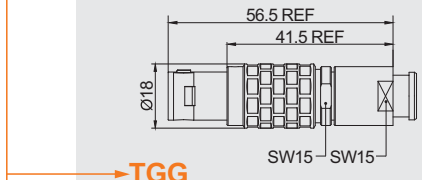


3B Series Insert configuration

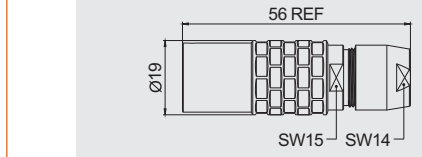
Male solder contacts		Female solder contacts		Insert configuration		Contact		Contact type				Test voltage (kV rms)				Rated current (A)	
Male crimp contacts		Female crimp contacts		Plug	Fixed socket	Reference	Number of contact	Cable (mm)	Solder	Crimp	Print	Print (elbow)	Solder		Crimp		
													Contact ↓ Contact	Contact ↑ Housing	Contact ↓ Contact		Contact ↑ Housing
						302	2	3.0	●	●	●	●	2.10	1.55	2.30	1.80	35.0
						303	3	2.0	●	●	●	●	1.90	1.50	3.20	2.65	25.0
						304	4	2.0	●	●	●	●	1.45	1.25	2.50	2.20	19.0
						305	5	1.6	●	●	●	●	1.90	1.25	2.40	1.75	19.0
						306	6	1.6	●	●	●	●	1.60	1.15	1.90	1.80	17.0
						307	7	1.6	●	●	●	●	1.70	1.25	2.00	2.05	15.0
						308	8	1.3	●	●	●	●	1.65	1.15	1.85	1.75	13.0
						309	8	1.3	●	●	●	●	1.35	1.05	1.10	1.05	6.0
						310	10	1.3	●	●	●	●	1.25	0.90	1.50	1.80	12.0
						312	12	0.9	●	●	●	●	1.45	1.00	1.65	1.85	9.0
						314	14	0.9	●	●	●	●	1.20	1.20	1.80	1.65	9.0
						316	16	0.9	●	●	●	●	1.20	0.85	1.80	1.50	8.0
						318	18	0.9	●	●	●	●	1.20	1.05	1.85	1.60	7.0
						320	20	0.7	●	●	●	●	1.00	0.90	1.35	1.55	6.0
						322	22	0.7	●	●	●	●	1.00	0.90	1.70	1.45	5.5
						324	24	0.7	●	●	●	●	0.95	0.80	1.35	1.35	4.0
						326	26	0.7	●	●	●	●	0.95	0.70	1.50	1.30	4.0
						330	30	0.7	●	●	●	●	0.80	0.70	1.35	1.20	3.5



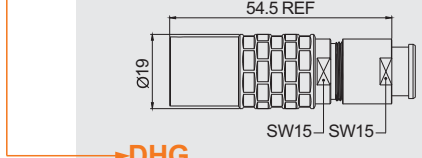
TGG
Straight plug, key(G), cable collet



TGG
Straight plug, key(G), cable collet and nut for fitting a bend relief
Note: The bend relief must be ordered separately (page 21)



DHG
Free socket, key(G), cable collet



DHG
Free socket, key(G), cable collet and nut for fitting a bend relief
Note: The bend relief must be ordered separately (page 21)

- Regular model, preferred
- In development

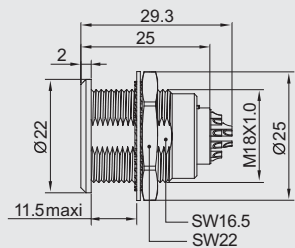
Calculation Standard: Working Voltage = Test Voltage / 3

Note: The maximum admissible operating voltage depends upon the national or international standards in force for the application in question. Air and creepage distances impact the operating voltage.

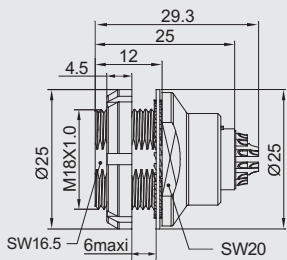
3B Series Insert configuration



Male solder contacts		Female solder contacts		Insert configuration		Contact		Contact type				Test voltage (kV rms)				Rated current (A)	
Male crimp contacts		Female crimp contacts		Plug	Fixed socket	Reference	Number of contact	Cable (mm)	Solder	Crimp	Print	Print (elbow)	Solder		Crimp		
													Contact ↑ Contact ↓	Contact ↑ Housing ↓	Contact ↑ Contact ↓		Contact ↑ Housing ↓



ZGG
Fixed socket, nut fixing, key(G)



ZEG
Fixed socket, nut fixing, key(G)
Note: Panel cut-out, nut fixing torque, (page21)

		302	2	3.0	●	●	●	2.10	1.55	2.30	1.80	35.0
		303	3	2.0	●	●	●	1.90	1.50	3.20	2.65	25.0
		304	4	2.0	●	●	●	1.45	1.25	2.50	2.20	19.0
		305	5	1.6	●	●	●	1.90	1.25	2.40	1.75	19.0
		306	6	1.6	●	●	●	1.60	1.15	1.90	1.80	17.0
		307	7	1.6	●	●	●	1.70	1.25	2.00	2.05	15.0
		308	8	1.3	●	●	●	1.65	1.15	1.85	1.75	13.0
		309	8	1.3	●	●	●	1.35	1.05	1.10	1.05	6.0
		310	10	1.3	●	●	●	1.35	1.05	1.10	1.05	15.0
		312	12	0.9	●	●	●	1.25	0.90	1.50	1.80	12.0
		314	14	0.9	●	●	●	1.45	1.00	1.65	1.85	9.0
		316	16	0.9	●	●	●	1.20	1.20	1.80	1.65	9.0
		318	18	0.9	●	●	●	1.20	0.85	1.80	1.50	8.0
		320	20	0.7	●	●	●	1.20	1.05	1.85	1.60	7.0
		322	22	0.7	●	●	●	1.00	0.90	1.35	1.55	6.0
		324	24	0.7	●	●	●	1.00	0.90	1.70	1.45	5.5
		326	26	0.7	●	●	●	0.95	0.80	1.35	1.35	4.0
		330	30	0.7	●	●	●	0.95	0.70	1.50	1.30	4.0
		330	30	0.7	●	●	●	0.80	0.70	1.35	1.20	3.5

- Regular model, preferred
- In development

Calculation Standard: Working Voltage = Test Voltage / 3

Note: The maximum admissible operating voltage depends upon the national or international standards in force for the application in question. Air and creepage distances impact the operating voltage.

Screw coupling watertightness connectors

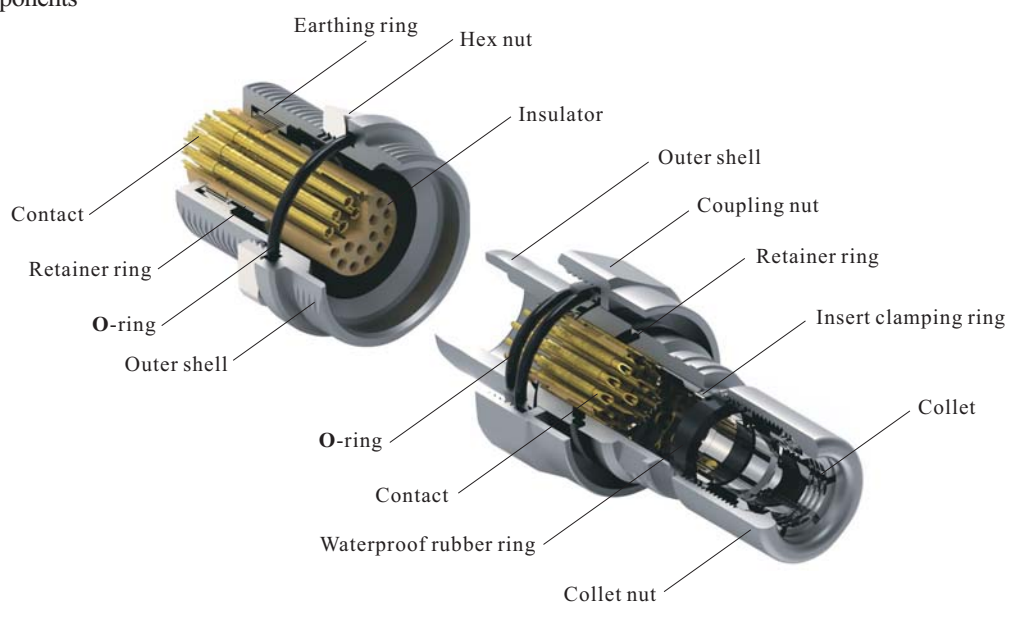


Alignment key, working pressure that can exceed 30 bars in mated conditions

IP68



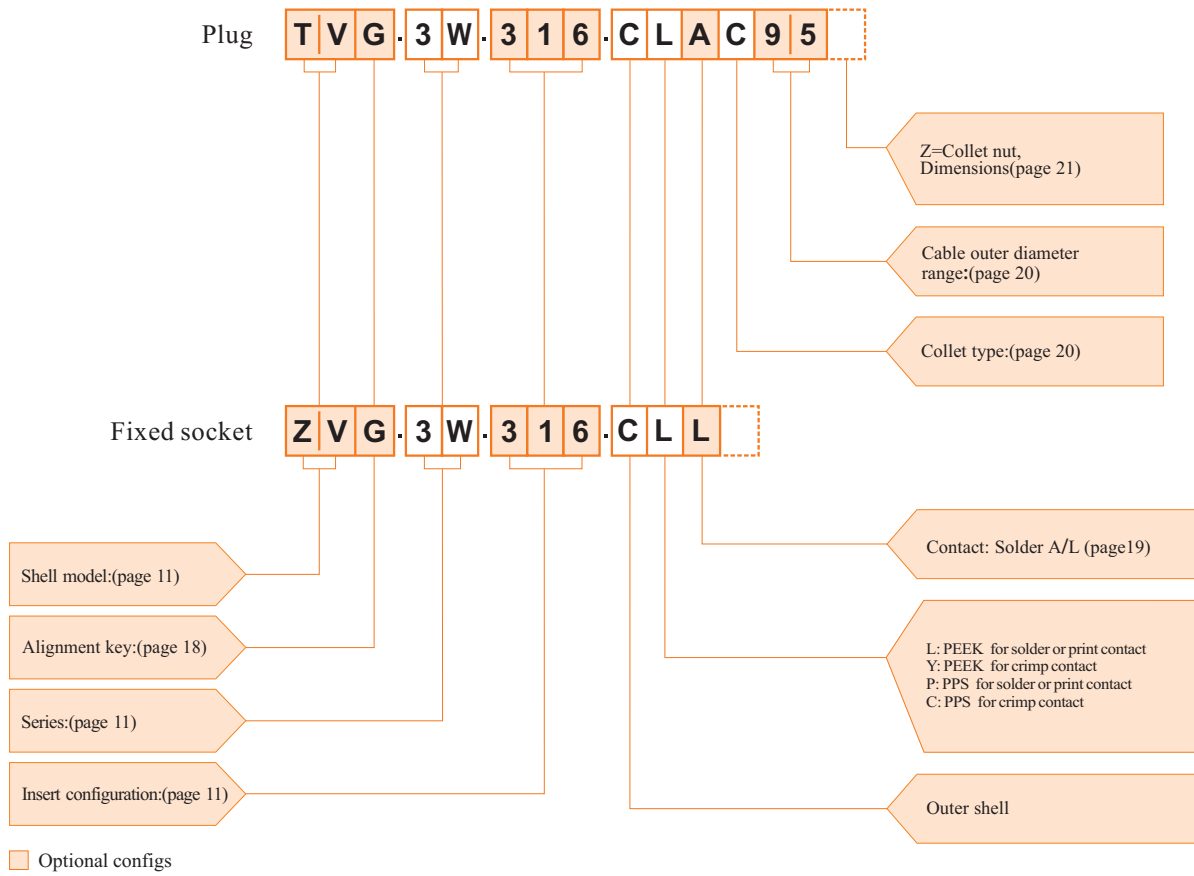
● Part Section Showing Internal Components



Material and spec

Specifications	W Series connector	
Coupling	Screw coupling connectors	
Shell	Outer shell in chrome-plated brass	
Insert material	PEEK	PPS
Contact material	Brass with gold plating	
IP rating	IP68 (mated)	
Mating cycle	> 1000	
Temperature range	-20°C~+200°C	
Insulation impedance	≥100MΩ	
Shielding efficiency	at10MHz>95dB/at 1GHz>80dB	
Salt spray test	> 144 hrs	>48 hrs
Resistance to hydrostatic pressure (mated):	~30bars	

Part Numbering System



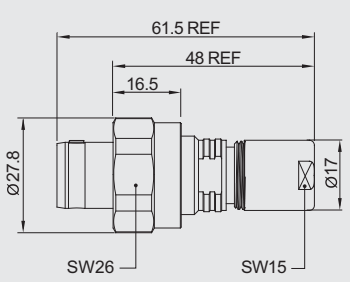
TVG.3W.316.CLAD95 = straight plug with key (G) and cable collet, 3W series, multipole type with 16 contacts, outer shell in chrome-plated brass, PEEK insulator, male solder contacts, C type collet for 9.1mm-9.5mm diameter cable.

ZVG.3W.316.CLL = fixed socket, nut fixing, with key (G), 3W series, multipole type with 16 contacts, outer shell in chrome-plated brass, PEEK extended insulator, female crimp contacts.

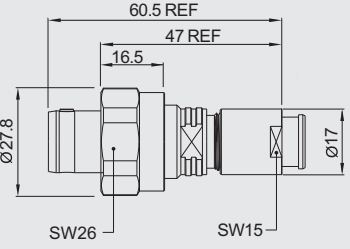


3W Series Insert configuration

Male solder contacts		Female solder contacts		Insert configuration		Contact		Contact type				Test voltage (kV rms)				Rated current (A)	
Male crimp contacts		Female crimp contacts		Plug	Fixed socket	Reference	Number of contact	Cable (mm)	Solder	Crimp	Print	Print (elbow)	Solder		Crimp		
													Contact	Contact	Contact		Contact
						302	2	3.0	●	●	●	●	2.10	1.55	2.30	1.80	35.0
						303	3	2.0	●	●	●	●	1.90	1.50	3.20	2.65	25.0
						304	4	2.0	●	●	●	●	1.45	1.25	2.50	2.20	19.0
						305	5	1.6	●	●	●	●	1.90	1.25	2.40	1.75	19.0
						306	6	1.6	●	●	●	●	1.60	1.15	1.90	1.80	17.0
						307	7	1.6	●	●	●	●	1.70	1.25	2.00	2.05	15.0
						308	8	1.3	●	●	●	●	1.65	1.15	1.85	1.75	13.0
						309	8	1.3	●	●	●	●	1.35	1.05	1.10	1.05	6.0
						310	10	1.3	●	●	●	●	1.35	1.05	1.10	1.05	15.0
						312	12	0.9	●	●	●	●	1.25	0.90	1.50	1.80	12.0
						314	14	0.9	●	●	●	●	1.45	1.00	1.65	1.85	9.0
						316	16	0.9	●	●	●	●	1.20	1.20	1.80	1.65	9.0
						318	18	0.9	●	●	●	●	1.20	0.85	1.80	1.50	8.0
						318	18	0.9	●	●	●	●	1.20	1.05	1.85	1.60	7.0
						320	20	0.7	●	●	●	●	1.20	1.05	1.85	1.60	7.0
						320	20	0.7	●	●	●	●	1.00	0.90	1.35	1.55	6.0
						322	22	0.7	●	●	●	●	1.00	0.90	1.70	1.45	5.5
						324	24	0.7	●	●	●	●	1.00	0.90	1.70	1.45	5.5
						324	24	0.7	●	●	●	●	0.95	0.80	1.35	1.35	4.0
						326	26	0.7	●	●	●	●	0.95	0.70	1.50	1.30	4.0
						330	30	0.7	●	●	●	●	0.80	0.70	1.35	1.20	3.5

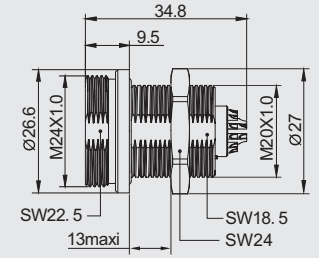


TVG
Straight plug, key(G), cable collet



TVG
Straight plug, key(G), cable collet and nut for fitting a bend relief

Note: The bend relief must be ordered separately (page 21)



ZVG
Fixed socket, nut fixing, key(G)

Note: Panel cut-out, nut fixing torque, (page 21)

- Regular model, preferred
- In development

Calculation Standard: Working Voltage = Test Voltage / 3

Note: The maximum admissible operating voltage depends upon the national or international standards in force for the application in question. Air and creepage distances impact the operating voltage.

Medical self-locking plastic connectors

— keying system

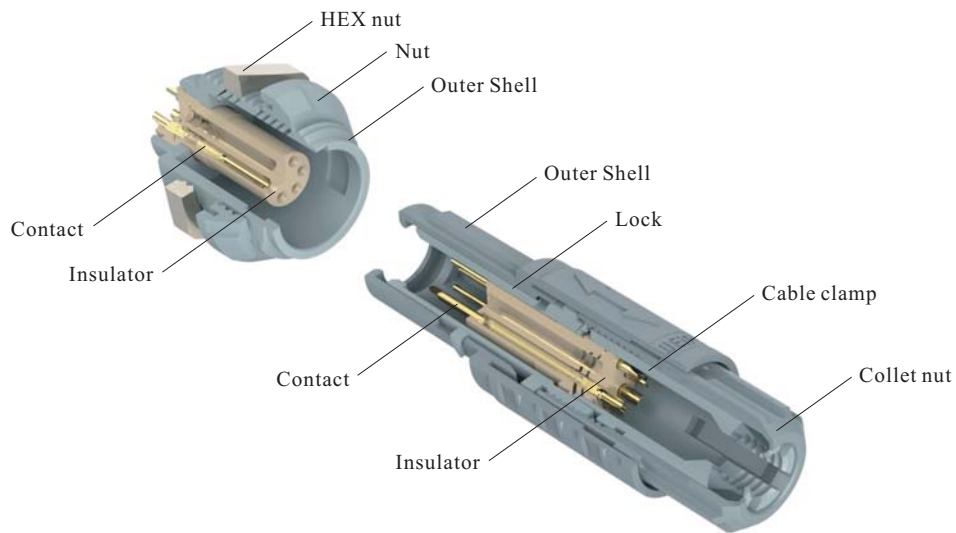
P
Series

01

IP50



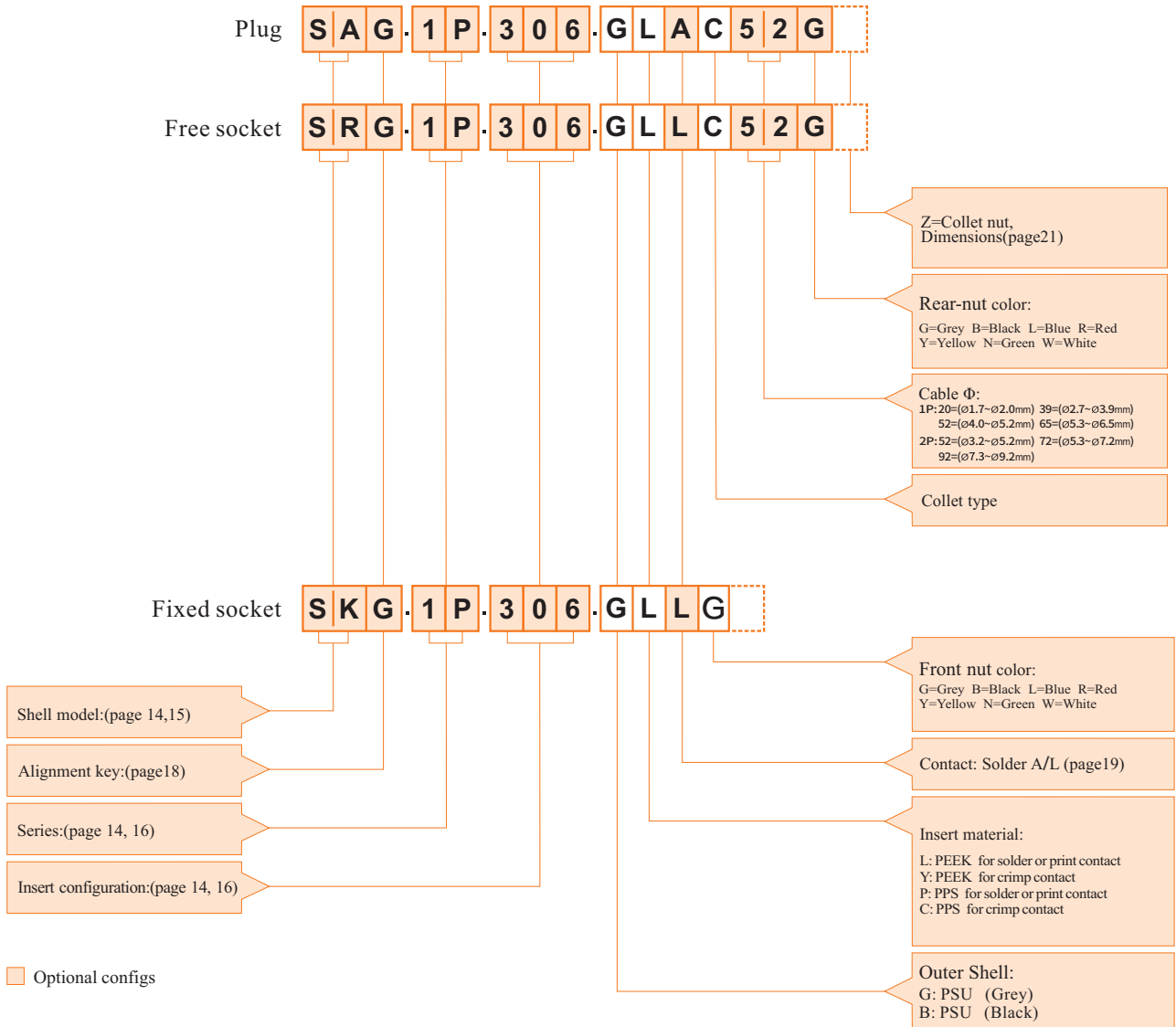
Part Section Showing Internal Components



Material and spec

Specifications	P Series connector	
Coupling	Push-pull self-latching connector	
Shell	PSU	
Insert material	PEEK	PPS
Contact material	Brass with gold plating	
IP rating	IP50 (mated)	
Mating cycle	>1000	
Temperature range	-50°C~+150°C	
Insulation impedance	$\geq 100\text{M}\Omega$	
Collet cut	PSU	

Part Numbering System



SAG.1P.306.GLAC52G = straight plug with key (G), 1P series, multipole type with 6 contacts, grey PSU outershell, PEEK insulator, male solder contacts, C type collet for 4.0mm-5.2mm diameter cable, and grey PSU Rear-nut.

SKG.1P.306.GLLG = Free socket with cable collet and alignment key (G), 1P series, multipole type with 6 contacts, grey PSU outershell, PEEK insulator, female solder contacts, and grey PSU front nut.

1P Series Insert configuration



Male solder contacts		Female solder contacts		Insert configuration		Reference		Contact		Contact type				Test voltage (kV rms)				Rated current (A)
Male crimp contacts		Female crimp contacts		Plug	Fixed socket	Number of contact	Cable (mm)	Solder	Crimp	Print	Print (elbow)	Solder		Crimp				
												Contact Contact	Housing Housing	Contact Contact	Housing Housing			
<p>SAG Straight plug, key(G), cable collet</p>						302	2	1.3	●	●	●	●	1.2	/	1.2	/	10.0	
<p>SAG Straight plug, key(G), cable collet and nut for fitting a bend relief Note: The bend relief must be ordered separately(page21)</p>						304	4	0.9	●	●	●	●	1.2	/	1.2	/	8.0	
<p>SAG Straight plug, key(G), cable collet and nut for fitting a bend relief Note: The bend relief must be ordered separately(page21)</p>						305	5	0.9	●	●	●	●	1.05	/	1.05	/	7.0	
<p>SRG Fixed socket, key(G), cable collet</p>						306	6	0.7	●	●	●	●	1.05	/	1.05	/	6.0	
<p>SRG Fixed socket, key(G), cable collet</p>						307	7	0.7	●	●	●	●	1.05	/	1.05	/	5.0	
<p>SRG Fixed socket, key(G), cable collet</p>						308	8	0.7	●	●	●	●	0.95	/	1.05	/	5.0	
<p>SRG Free socket, key(G), cable collet and nut for fitting a bend relief Note: The bend relief must be ordered separately(page21)</p>						309 [*]	9	0.5	●	●	●	●	0.85	/	0.85	/	3.0	
<p>SRG Free socket, key(G), cable collet and nut for fitting a bend relief Note: The bend relief must be ordered separately(page21)</p>						310 [*]	10	0.5	●	●	●	●	0.85	/	0.85	/	3.0	
<p>SRG Free socket, key(G), cable collet and nut for fitting a bend relief Note: The bend relief must be ordered separately(page21)</p>						314 [*]	14	0.5	●	●	●	●	0.6	/	0.6	/	2.0	

- Regular model, preferred
- In development
- ★ Compatible only with WEIPU Connectors

Calculation Standard: Working Voltage = Test Voltage / 3
Note: The maximum admissible operating voltage depends upon the national or international standards in force for the application in question. Air and creepage distances impact the operating voltage.



1P Series Insert configuration

Male solder contacts		Female solder contacts		Insert configuration		Contact		Contact type				Test voltage (kVrms)				Rated current (A)	
Male crimp contacts		Female crimp contacts		Plug	Fixed socket	Reference	Number of contact	Cable (mm)	Solder	Crimp	Print	Print (elbow)	Solder		Crimp		
													Contact Contact	Contact Housing	Contact Contact		Contact Housing
<p>SKG Fixed socket with two nuts, key(G) Note: Panel cut-out, nut fixing torque, (page21)</p>						302	2	1.3	●	●	●	●	1.2	/	1.2	/	10.0
<p>SLG Fixed socket with two nuts, key(G) Note: Panel cut-out, nut fixing torque, (page21)</p>						304	4	0.9	●	●	●	●	1.2	/	1.2	/	8.0
<p>SNG (IP64) Fixed socket with two nuts, key(G) Note: Panel cut-out, nut fixing torque, (page21)</p>						305	5	0.9	●	●	●	●	1.05	/	1.05	/	7.0
						306	6	0.7	●	●	●	●	1.05	/	1.05	/	6.0
						307	7	0.7	●	●	●	●	1.05	/	1.05	/	5.0
						308	8	0.7	●	●	●	●	0.95	/	1.05	/	5.0
						309	9	0.5	●	●	●	●	0.85	/	0.85	/	3.0
						310	10	0.5	●	●	●	●	0.85	/	0.85	/	3.0
						314	14	0.5	●	●	●	●	0.6	/	0.6	/	2.0

- Regular model, preferred
- In development
- ★ Compatible only with WEIPU Connectors

Calculation Standard: Working Voltage = Test Voltage / 3
Note: The maximum admissible operating voltage depends upon the national or international standards in force for the application in question. Air and creepage distances impact the operating voltage.

2P Series Insert configuration



Male solder contacts		Female solder contacts		Insert configuration		Contact		Contact type				Test voltage (kV rms)				Rated current (A)	
Male crimp contacts		Female crimp contacts		Plug	Fixed socket	Reference	Number of contact	Cable (mm)	Solder	Crimp	Print	Print (elbow)	Solder		Crimp		
													Contact	Contact Housing	Contact		Contact Housing
<p>SAB Straight plug, key(B), cable collet</p>						302	2	2.0	●	●	●	●	2.10	/	2.10	/	25.0
<p>SAB Straight plug, key(B), cable collet and nut for fitting a bend relief Note: The bend relief must be ordered separately (page 21)</p>						303	3	1.6	●	●	●	●	2.40	/	2.40	/	17.0
<p>SAB Straight plug, key(B), cable collet and nut for fitting a bend relief Note: The bend relief must be ordered separately (page 21)</p>						304	4	1.3	●	●	●	●	1.85	/	1.85	/	15.0
<p>SAB Straight plug, key(B), cable collet and nut for fitting a bend relief Note: The bend relief must be ordered separately (page 21)</p>						305	5	1.3	●	●	●	●	1.75	/	1.75	/	14.0
<p>SAB Straight plug, key(B), cable collet and nut for fitting a bend relief Note: The bend relief must be ordered separately (page 21)</p>						306	6	1.3	●	●	●	●	1.35	/	1.35	/	12.0
<p>SAB Straight plug, key(B), cable collet and nut for fitting a bend relief Note: The bend relief must be ordered separately (page 21)</p>						307	7	1.3	●	●	●	●	1.75	/	1.75	/	11.0
<p>SAB Straight plug, key(B), cable collet and nut for fitting a bend relief Note: The bend relief must be ordered separately (page 21)</p>						308	8	0.9	●	●	●	●	1.50	/	1.50	/	10.0
<p>SRB Fixed socket, key(B), cable collet</p>						310	10	0.9	●	●	●	●	1.45	/	1.45	/	8.0
<p>SRB Fixed socket, key(B), cable collet</p>						312	12	0.7	●	●	●	●	1.25	/	1.25	/	7.0
<p>SRB Free socket, key(B), cable collet and nut for fitting a bend relief Note: The bend relief must be ordered separately (page 21)</p>						316	16	0.7	●	●	●	●	0.95	/	1.50	/	6.0
<p>SRB Free socket, key(B), cable collet and nut for fitting a bend relief Note: The bend relief must be ordered separately (page 21)</p>						319	19	0.7	●	●	●	●	0.95	/	1.40	/	5.0
<p>SRB Free socket, key(B), cable collet and nut for fitting a bend relief Note: The bend relief must be ordered separately (page 21)</p>						326	26	0.5	●	●	●	●	0.95	/	1.00	/	2.0
<p>SRB Free socket, key(B), cable collet and nut for fitting a bend relief Note: The bend relief must be ordered separately (page 21)</p>						332	32	0.5	●	●	●	●	0.7	/	0.7	/	1.5

- Regular model, preferred
- In development

Calculation Standard: Working Voltage = Test Voltage / 3

Note: The maximum admissible operating voltage depends upon the national or international standards in force for the application in question. Air and creepage distances impact the operating voltage.

2P Series Insert configuration



Male solder contacts		Female solder contacts		Insert configuration		Contact		Contact type				Test voltage (kV rms)				Rated current (A)	
Male crimp contacts		Female crimp contacts		Plug	Fixed socket	Reference	Number of contact	Cable (mm)	Solder	Crimp	Print	Print (elbow)	Solder		Crimp		
													Contact	Housing	Contact		Housing
						302	2	2.0	●	●	●	●	2.10	/	2.10	/	25.0
<p>SKB Fixed socket with two nuts, key(B) Note: Panel cut-out, nut fixing torque, (page 21)</p>						303	3	1.6	●	●	●	●	2.40	/	2.40	/	17.0
<p>SKB Fixed socket with two nuts, key(B) Note: Panel cut-out, nut fixing torque, (page 21)</p>						304	4	1.3	●	●	●	●	1.85	/	1.85	/	15.0
<p>SKB Fixed socket with two nuts, key(B) Note: Panel cut-out, nut fixing torque, (page 21)</p>						305	5	1.3	●	●	●	●	1.75	/	1.75	/	14.0
<p>SKB Fixed socket with two nuts, key(B) Note: Panel cut-out, nut fixing torque, (page 21)</p>						306	6	1.3	●	●	●	●	1.35	/	1.35	/	12.0
<p>SKB Fixed socket with two nuts, key(B) Note: Panel cut-out, nut fixing torque, (page 21)</p>						307	7	1.3	●	●	●	●	1.75	/	1.75	/	11.0
<p>SKB Fixed socket with two nuts, key(B) Note: Panel cut-out, nut fixing torque, (page 21)</p>						308	8	0.9	●	●	●	●	1.50	/	1.50	/	10.0
<p>SKB Fixed socket with two nuts, key(B) Note: Panel cut-out, nut fixing torque, (page 21)</p>						310	10	0.9	●	●	●	●	1.45	/	1.45	/	8.0
<p>SKB Fixed socket with two nuts, key(B) Note: Panel cut-out, nut fixing torque, (page 21)</p>						312	12	0.7	●	●	●	●	1.25	/	1.25	/	7.0
<p>SKB Fixed socket with two nuts, key(B) Note: Panel cut-out, nut fixing torque, (page 21)</p>						316	16	0.7	●	●	●	●	0.95	/	1.50	/	6.0
<p>SKB Fixed socket with two nuts, key(B) Note: Panel cut-out, nut fixing torque, (page 21)</p>						319	19	0.7	●	●	●	●	0.95	/	1.40	/	5.0
<p>SKB Fixed socket with two nuts, key(B) Note: Panel cut-out, nut fixing torque, (page 21)</p>						326	26	0.5	●	●	●	●	0.95	/	1.00	/	2.0
<p>SKB Fixed socket with two nuts, key(B) Note: Panel cut-out, nut fixing torque, (page 21)</p>						332	32	0.5	●	●	●	●	0.7	/	0.7	/	1.5

- Regular model, preferred
- In development

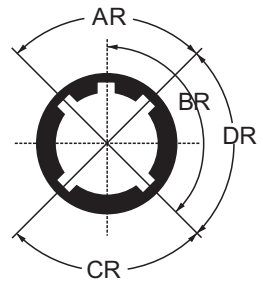
Calculation Standard: Working Voltage = Test Voltage / 3

Note: The maximum admissible operating voltage depends upon the national or international standards in force for the application in question. Air and creepage distances impact the operating voltage.

Alignment key (B Series)



Ref.	Nb of keys	Series						Contact type		Note
		Angles	1B	Angles	2B	3B	Plug	Socket		
G	1	-	0°	-	0°	0°	Male	Female	●	
A	2	AR	30°	AR	30°	30°	Male	Female	●	
B	2		60°		45°	45°	Male	Female	●	
C	2		90°		60°	60°	Male	Female	●	
D	2	BR	135°	CR	95°	95°	Male	Female	○	
E	2		145°	BR	120°	120°	Male	Female	○	
F	2		155°		145°	145°	Male	Female	○	
J	2	CR	45°	AR	37.5°	37.5°	Female	Male	●	
K	2		70°		52.5°	52.5°	Female	Male	○	
L	2		80°		CR	70°	70°	Female	Male	○
M	2	DR	-	-	-	-	Female	Male	○	
Y	3	-	-	BR	112.5°	126°	Male	Female	●	
		-	-	CR	100°	102°				



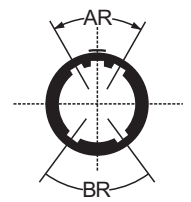
Front view of a socket

- Regular model, preferred
- Special order alternative

Alignment key (W Series)



Ref.	Nb of keys	Angles	Series	Contact type		Note
			3W	Plug	Socket	
G	1	-	0°	Male	Female	●
A	2	AR	30°	Male	Female	●
B	2		45°	Male	Female	●
L	2	BR	75°	Female	Male	○



Front view of a socket

- Regular model, preferred
- Special order alternative

Alignment key (P Series)



Ref.(1P)	G	A	B	C
Front view of a socket				
Nb of keys	1	2	2	2

Ref.(2P)	B	C	D
Front view of a socket			
Nb of keys	3	3	3

- Regular model, preferred
- Special order alternative

Contacts reference for B&W series plugs, free or fixed sockets



Contact type	Reference		Contact			Conductor						F_r (N)
	Male	Female	$\varnothing A$ (mm)	$\varnothing C$ (mm)	Form per fig.	Solid		Stranded				
						AWG max.	Section max. (mm ²)	AWG		Section(mm ²)		
							min.	max.	min.	max.		
	A	L	0.5	0.40	-	28	0.09	-	30	-	0.05	-
			0.5	0.45	-	28	0.09	-	28	-	0.09	-
			0.7	0.80	-	22	0.34	-	22 ¹⁾	-	0.34	-
			0.9	0.80	-	22	0.34	-	22 ¹⁾	-	0.34	-
			1.3	1.00	-	20	0.50	-	20 ¹⁾	-	0.50	-
			1.6	1.40	-	16	1.00	-	18	-	1.00	-
			2.0	1.80	-	14	1.50	-	16	-	1.50	-
			3.0	2.70	-	10	4.00	-	12	-	4.00	-

Note: ¹⁾for a given AWG, the diameter of some stranded conductor designs is larger than the solder cup diameter.
Make sure that the maximum conductor diameter is smaller than $\varnothing C$.

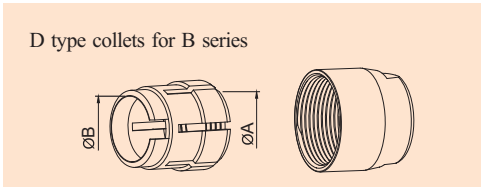
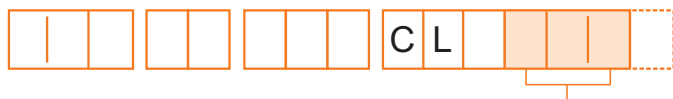
Contacts reference for 2P series plugs, free or fixed sockets



Contact type	Reference		Contact			Conductor						F_r (N)
	Male	Female	$\varnothing A$ (mm)	$\varnothing C$ (mm)	Form per fig.	Solid		Stranded				
						AWG max.	Section max. (mm ²)	AWG		Section(mm ²)		
							min.	max.	min.	max.		
	A	L	0.5	0.45	-	28	0.09	-	28	-	0.09	-
			0.7	0.85	-	22	0.34	-	22 ¹⁾	-	0.34	-
			0.9	0.85	-	22	0.34	-	22 ¹⁾	-	0.34	-
			1.3	1.40	-	20	0.50	-	20 ¹⁾	-	0.50	-
			1.6	1.40	-	16	1.00	-	18	-	1.00	-
			2.0	1.80	-	14	1.50	-	16	-	1.50	-

Note: ¹⁾for a given AWG, the diameter of some stranded conductor designs is larger than the solder cup diameter.
Make sure that the maximum conductor diameter is smaller than $\varnothing C$.

Collets (B series)

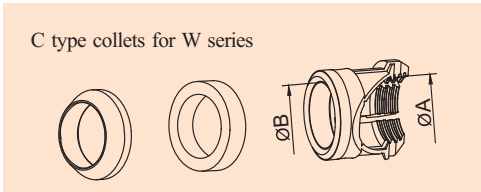
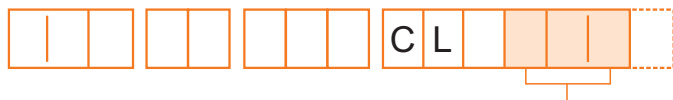


	Reference		Collet Ø		Cable Ø		注 Notes
	Type	Code	ØA	ØB	max.	min.	
1B	D	42	4.2	—	4.2	3.1	
	D	52	5.2	—	5.2	> 4.2	
	D	62	6.2	—	6.2	> 5.2	
	D	72	7.2	6.2	7.2	> 6.2	
	D	76	7.6	6.9	7.6	> 7.2	1)
2B	D	42	4.2	—	4.2	> 3.2	
	D	52	5.2	—	5.2	> 4.2	
	D	62	6.2	—	6.2	> 5.2	
	D	72	7.2	—	7.2	> 6.2	
	D	82	8.2	—	8.2	> 7.2	
	D	92	9.2	8.6	9.2	> 8.2	
	D	99	9.9	8.6	9.9	> 9.2	1)
3B	D	62	6.2	—	6.2	4.9	
	D	72	7.2	—	7.7	> 6.2	
	D	92	9.2	—	9.2	> 7.7	
	D	10	10.2	—	10.0	> 9.2	
	D	11	11.0	—	11.0	>10.1	
	D	12	12.0	10.2	11.9	10.8	1)

Note: all dimensions are in millimetres.

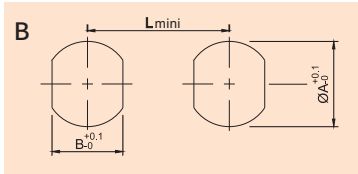
¹⁾ these collets cannot be used for connector models with nut for fitting a bend relief. No bend relief available for this cable size.

Collets (W series)



	Reference		Collet Ø		Cable Ø		Notes
	Type	Code	ØA	ØB	max.	min.	
3W	C	30	3.2	—	3.0	2.6	
	C	35	4.2	—	3.5	3.1	
	C	40	4.2	—	4.0	3.6	
	C	45	5.2	—	4.5	4.1	
	C	50	5.2	—	5.0	4.6	
	C	55	6.2	—	5.5	5.1	
	C	60	6.2	—	6.0	5.6	
	C	65	7.2	—	6.5	6.1	
	C	70	7.2	—	7.0	6.6	
	C	75	8.2	—	7.5	7.1	
	C	80	8.2	—	8.0	7.6	
	C	85	9.2	—	8.5	8.1	
	C	90	9.2	—	9.0	8.6	
	C	95	10.2	10.2	9.5	9.1	
	C	10	10.2	10.2	10.0	9.6	
	C	11	10.6	10.6	10.5	10.1	

Panel cut-outs



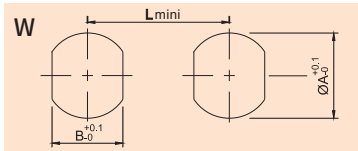
B series

Series	ØA	B	L
1B	12.1	10.6	18.5
2B	15.1	13.6	22.5
3B	18.2	16.6	27.0

Mounting nut torque

Series	Torque(Nm)	
	Metal shell	Plastic shell
1B	4.5	0.7
2B	6.0	0.8
3B	9.0	1.0

1N=0.102kg



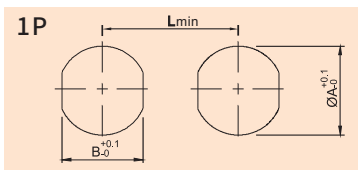
W series

Series	ØA	B	L
3W	20.2	18.6	30.0

Mounting nut torque

Series	Torque(Nm)
3W	9

1N=0.102kg



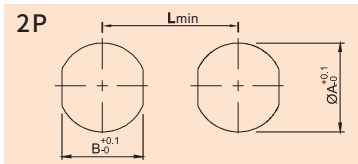
P series

Series	ØA	B	L
1P	14	12.6	23.5
2P	17.1	15.6	26

Mounting nut torque

Series	Torque(Nm)
1P	1.5
2P	0.8

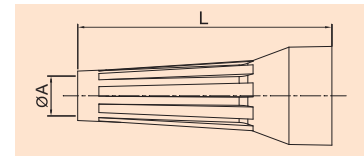
1N=0.102kg



SRA Bend relief (TPU)



Number	Colour	Number	Colour	Number	Colour
L	blue	Y	yellow	R	red
W	white	M	brown	S	orange
G	grey	B	black	N	green



Part number	Series	Bend relief		Cable Ø		Material	Temperature range
		A	L	min.	max.		
SRA.1B.025.DG	1B 1P	2.5	30	2.5	2.9	TPU Thermoplastic Polyurethane	-40°C~80°C
SRA.1B.030.DG		3.0	30	3.0	3.4		
SRA.1B.035.DG		3.5	30	3.5	3.9		
SRA.1B.040.DG		4.0	30	4.0	4.4		
SRA.1B.045.DG		4.5	30	4.5	4.9		
SRA.1B.054.DG		5.4	30	5.4	6.0		
SRA.1B.065.DG	2B 2P	6.5	30	6.5	7.0		
SRA.2B.040.DG		4.0	36	4.0	4.5		
SRA.2B.045.DG		4.5	36	4.5	5.0		
SRA.2B.050.DG		5.0	36	5.0	5.5		
SRA.2B.060.DG		6.0	36	6.0	6.5		
SRA.2B.070.DG		7.0	36	7.0	7.7		
SRA.2B.080.DG	3B 3W	7.8	36	7.8	8.8		
SRA.3B.050.DG		4.5	42	4.5	5.2		
SRA.3B.060.DG		6.0	42	6.0	6.9		
SRA.3B.070.DG		7.0	42	7.0	7.9		
SRA.3B.080.DG		8.0	42	8.0	8.9		
SRA.3B.090.DG	9.0	42	9.0	10.0			

Push-pull self-latching connector



WK Series



WK Series Lock the hook tightly connector

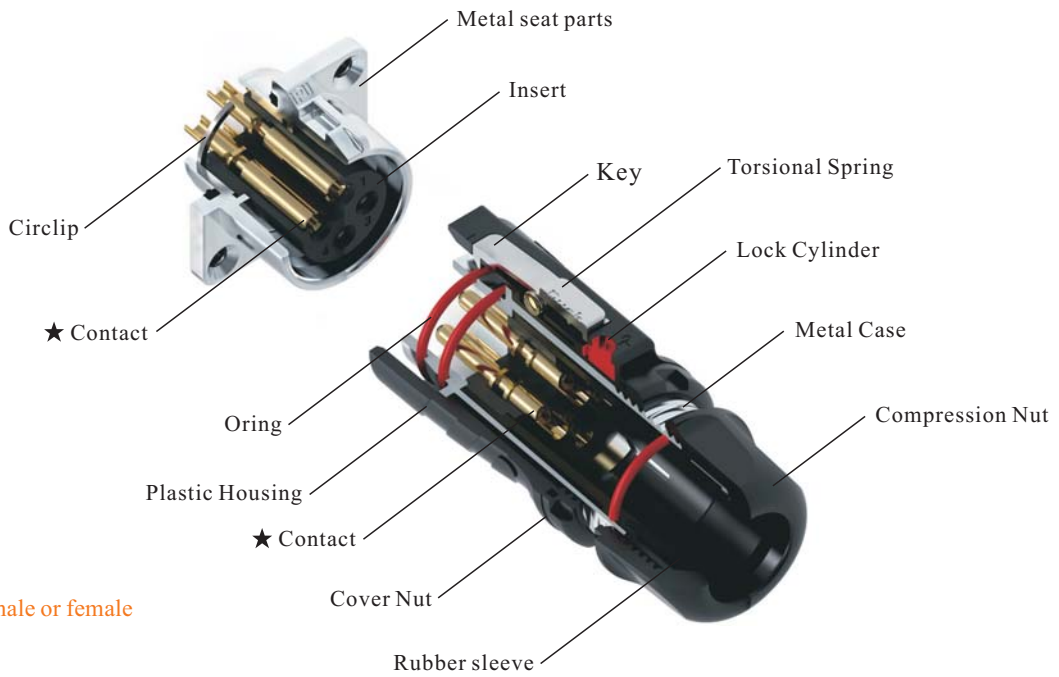
● Product characteristics:

- Quick installation of product wiring, direct push pull lock buckle
Quick plug-in and reliable, convenient and reliable;
- With button lock function;
- With shielding function;
- IP68 waterproof.





● Lock the hook tightly

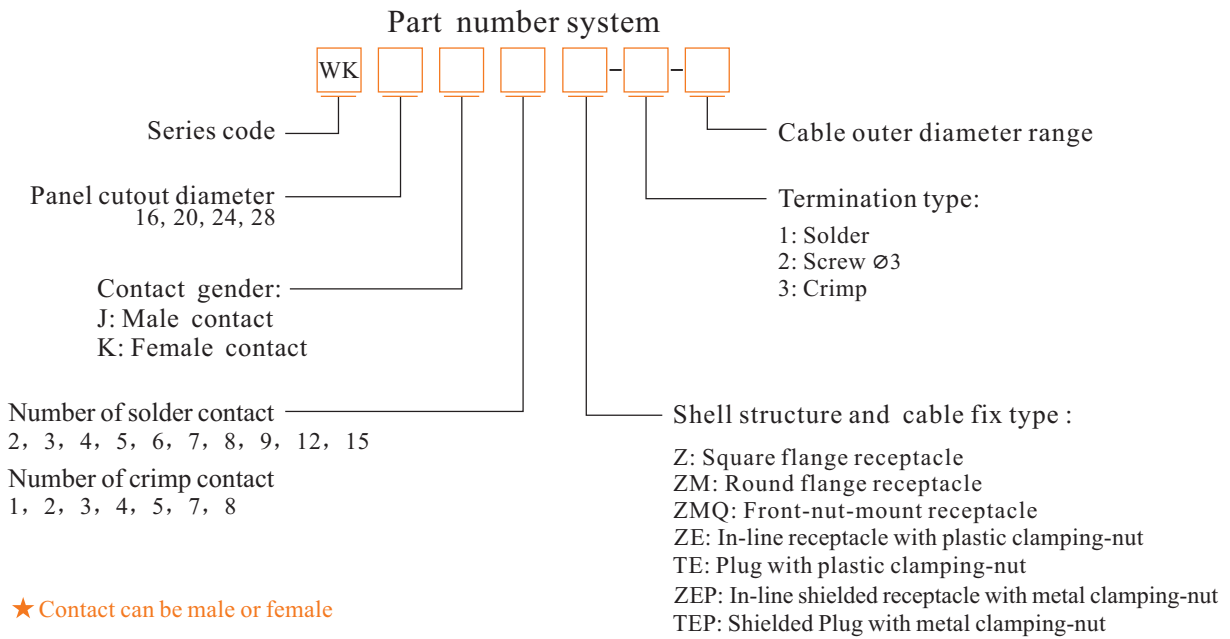


★ Contact can be male or female

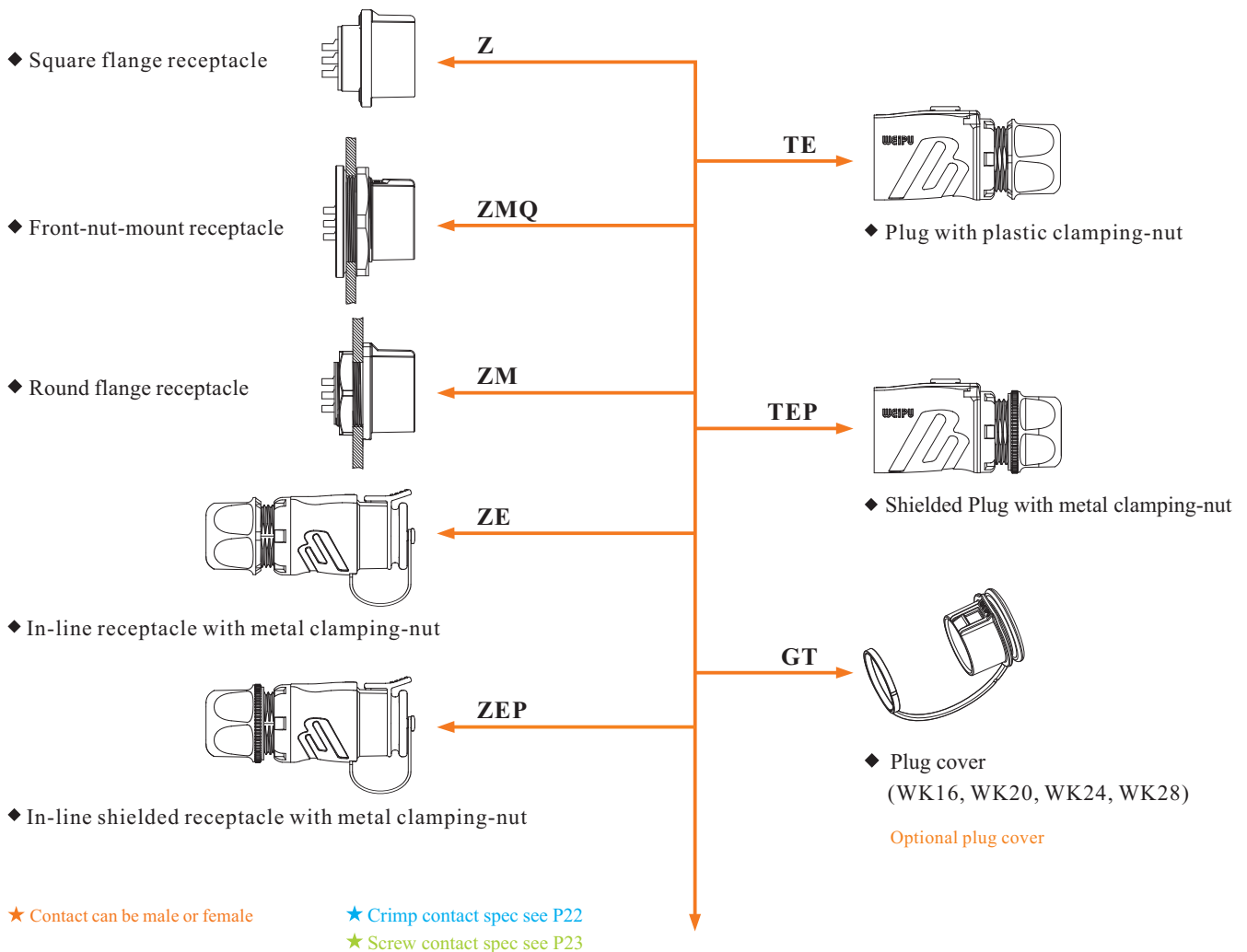
Material and spec

Specifications	WK16	WK20	WK24	WK28
Coupling		Lock hook connection		
Shell		PPE, Zinc alloy, Fire resistance: V-0		
Contact material		Brass with gold plating		
Insert material		PPS, PBT, max temperature 260 °C		
Termination	Solder: Ø1mm、Ø1.5mm	Solder: Ø1mm、Ø1.5mm、Ø2mm、Ø2.5mm、Ø3mm、Ø3.5mm Screw: Ø2.5mm、Ø3mm、Ø3.5mm Crimp: Ø1mm、Ø1.5mm、Ø2.5mm、Ø3.5mm、Ø5.5mm		
Key lock		✓		
IP rating		IP68 (mated)		
Mating cycle		500		
Temperature range		-40°C~+105°C		
Insulation resistance		2000MΩ		

● **WK Series**

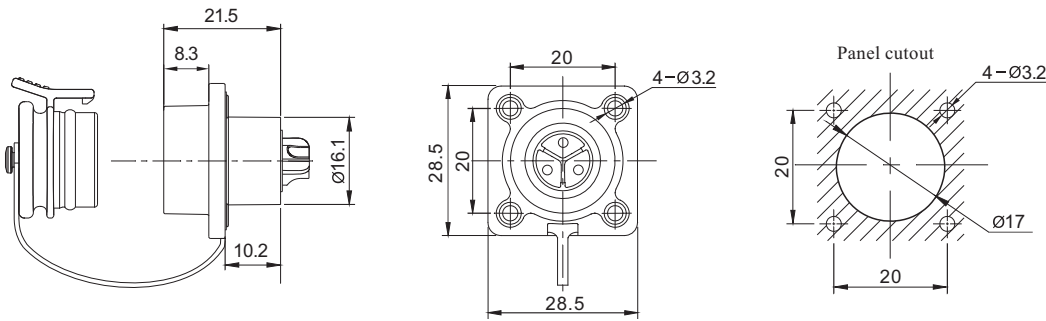


● **WK Series Mating diagram**

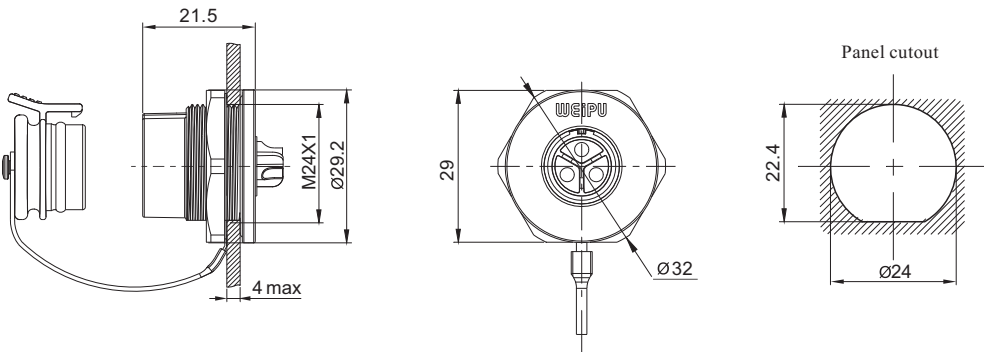




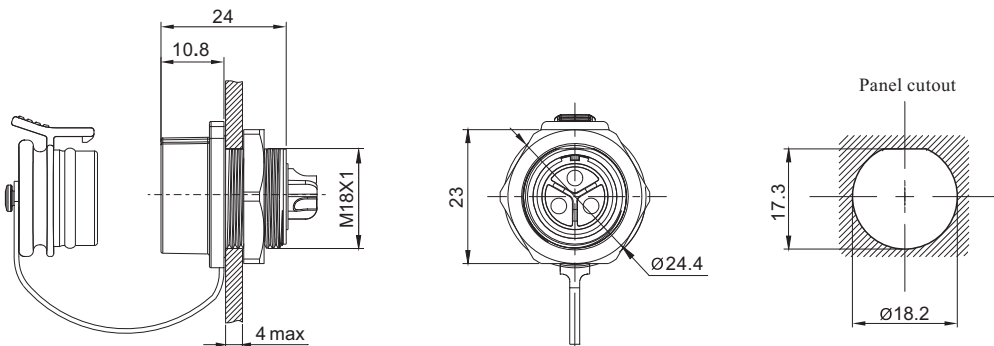
● Square flange receptacle: Z IP68



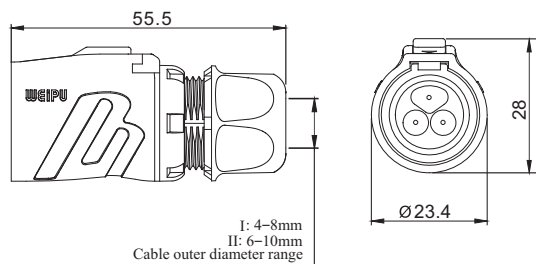
● Front-nut-mount receptacle: ZMQ IP68



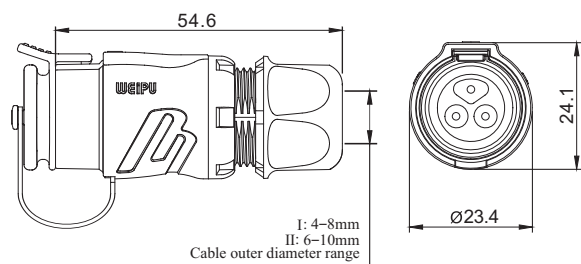
● Round flange receptacle: ZM IP68



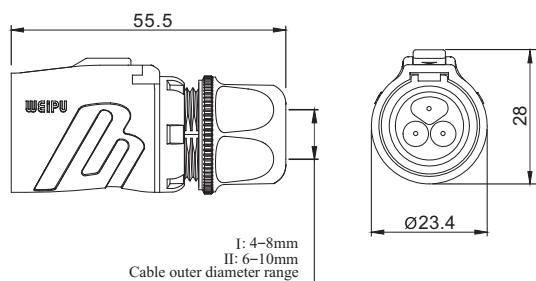
● Plug with plastic clamping-nut: TE IP68



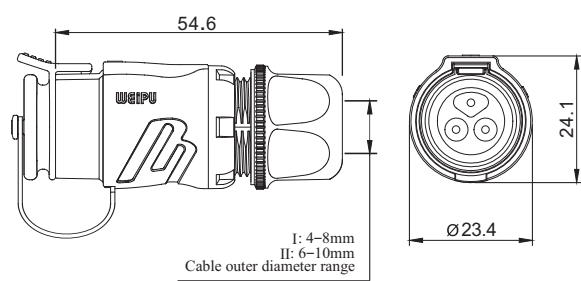
● In-line receptacle with plastic clamping-nut: ZE IP68



● Shielded Plug with metal clamping-nut: TEP IP68



● In-line shielded receptacle with metal clamping-nut: ZEP IP68



Plug cover: WK16-GT
Order number: 10221001629

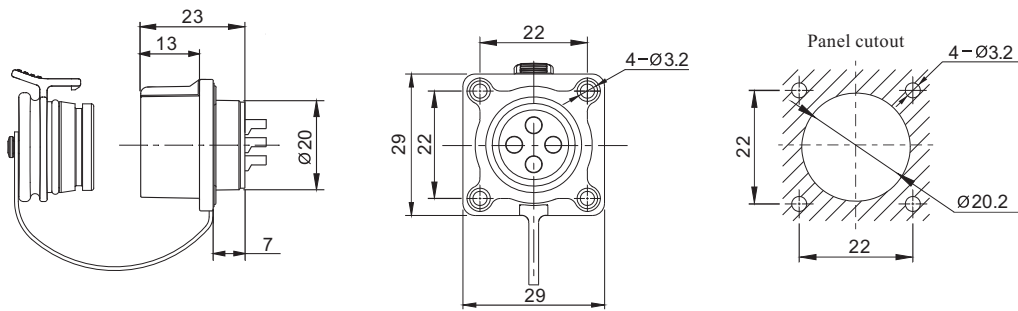
Optional plug cover

Solder contact spec

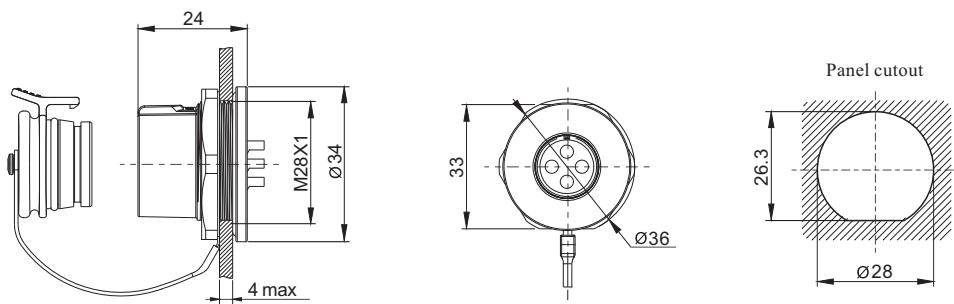
WK16	2	3	4	5	7	8	9
Male contact face view							
Rated current (A)	10	10	10	5	5	5	5
Contact diameter(mm)	Ø1.5X2	Ø1.5X3	Ø1.5X4	Ø1X5	Ø1X7	Ø1X8	Ø1X9
Rated voltage (AC.V)	400	400	400	250	250	250	250
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500	1500
Contact resistance(mΩ)	3	3	3	5	5	5	5
Wire size (mm ² /AWG)	≤1.5/16	≤1.5/16	≤1.5/16	≤0.75/20	≤0.75/20	≤0.75/20	≤0.75/20



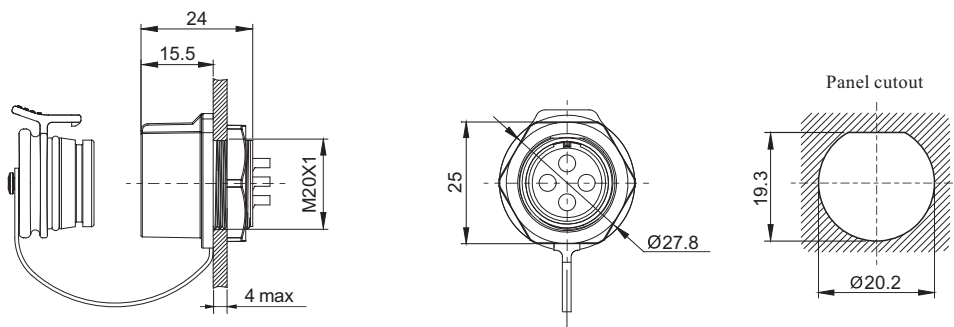
● Square flange receptacle: Z IP68



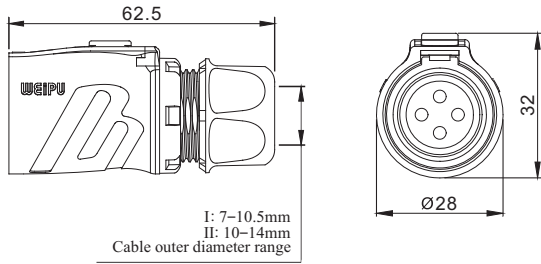
● Front-nut-mount receptacle: ZMQ IP68



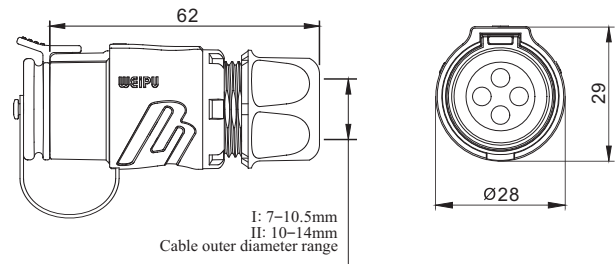
● Round flange receptacle: ZM IP68



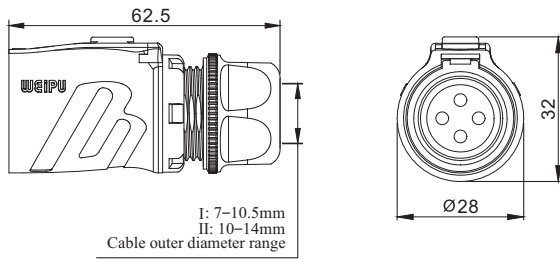
● Plug with plastic clamping-nut: TE IP68



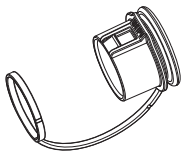
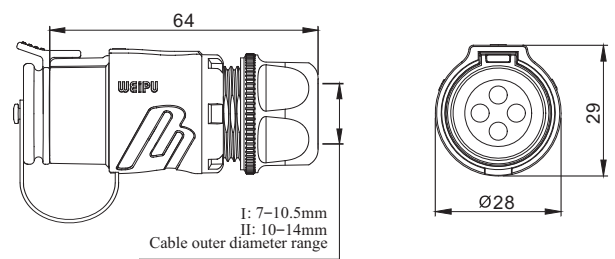
● In-line receptacle with plastic clamping-nut: ZE IP68



● Shielded Plug with metal clamping-nut: TEP IP68



● In-line shielded receptacle with metal clamping-nut: ZEP IP68



Plug cover: WK20-GT
Order number: 10221001630

Optional plug cover

★ Crimp contact spec see P22

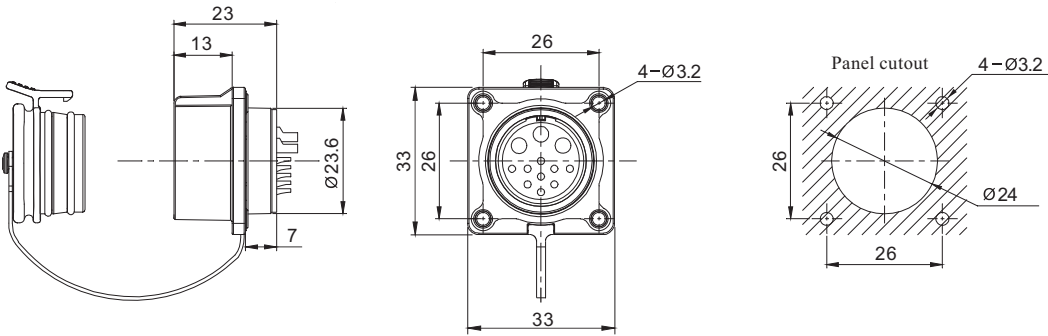
★ Screw contact spec see P23

Solder contact spec

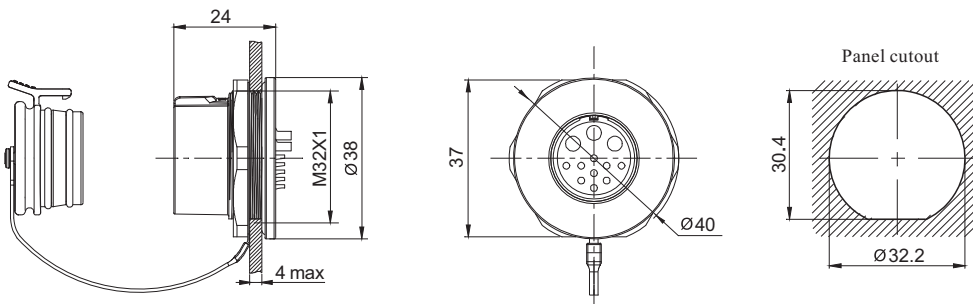
WK20	2	3	4	5	5B	5C	6	6B	7	8	9	12	15
Male contact face view													
Rated current (A)	30	30	30	30	30 5	15	25 5	30 5	15	10	5	5	5
Contact diameter(mm)	ø3X2	ø3X3	ø3X4	ø3X5	ø3X2 ø1X3	ø2X5	ø2.5X4 ø1X2	ø3X2 ø1X4	ø2X7	ø1.5X8	ø1X9	ø1X12	ø1X15
Rated voltage (AC.V)	500	500	500	500	500	500	500	500	500	500	400	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
Wire size (mm ² /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



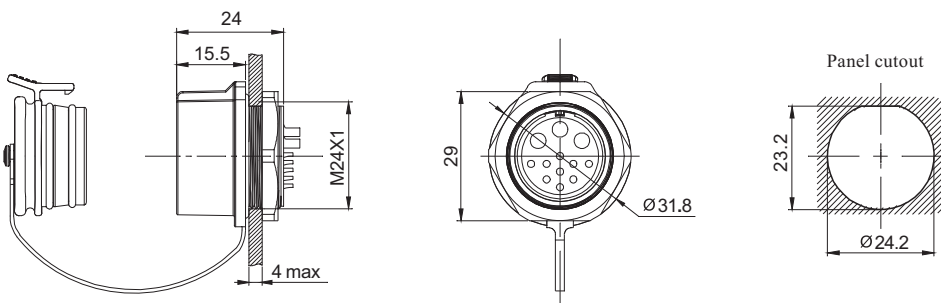
● Square flange receptacle: Z IP68



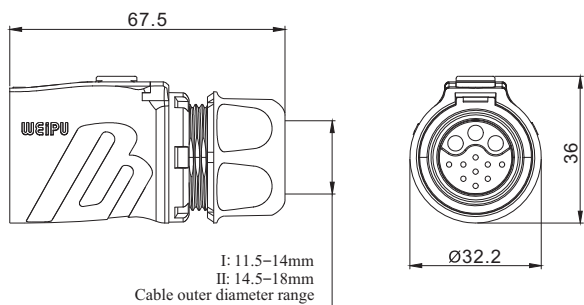
● Front-nut-mount receptacle: ZMQ IP68



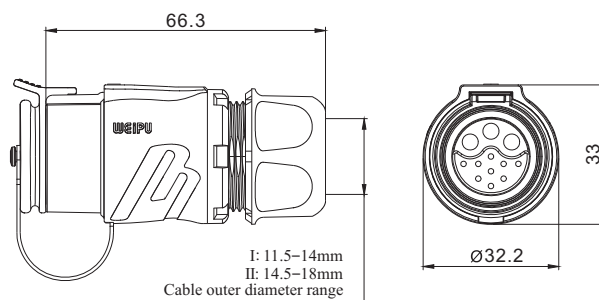
● Round flange receptacle: ZM IP68



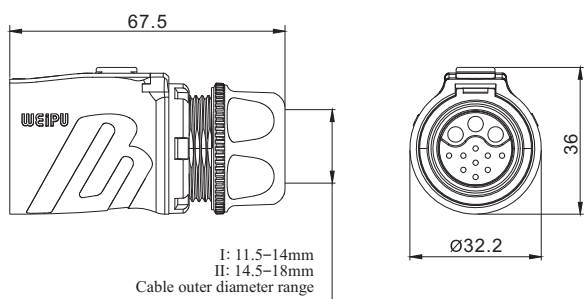
● Plug with plastic clamping-nut: TE IP68



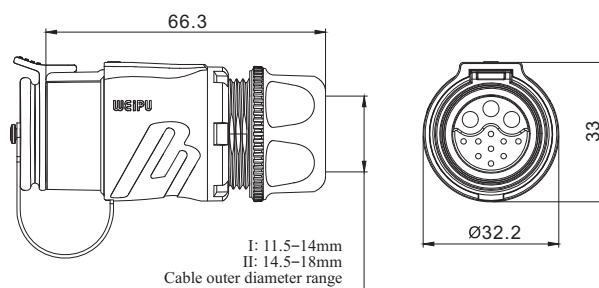
● In-line receptacle with plastic clamping-nut: ZE IP68



● Shielded Plug with metal clamping-nut: TEP IP68



● In-line shielded receptacle with metal clamping-nut: ZEP IP68



Plug cover: WK24-GT
Order number: 10221001653

Optional plug cover

★ Crimp contact spec see P22

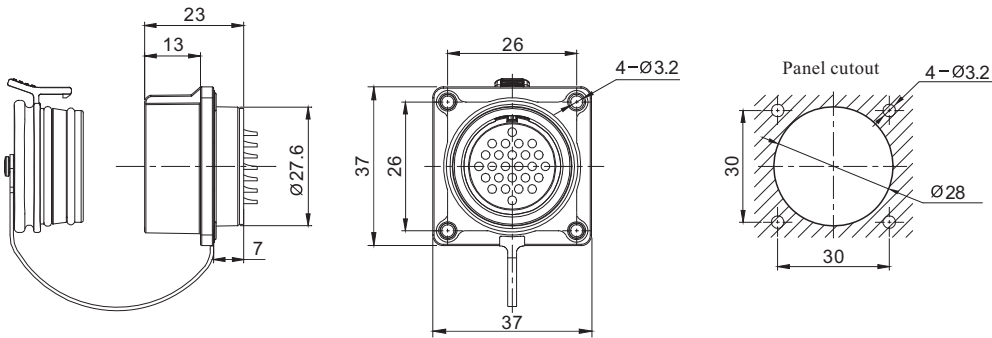
★ Screw contact spec see P23

Solder contact spec

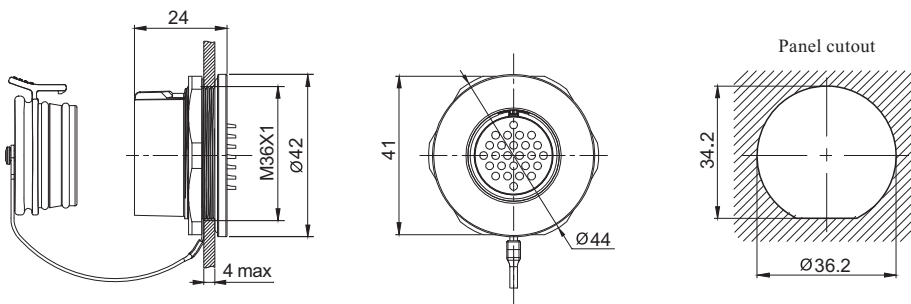
WK24	2	3	4	9	10	12	12B	19
Male contact face view								
Rated current (A)	25	25	25	5 25	10	10	5 30	5
Contact diameter(mm)	ø2.5X2	ø2.5X3	ø2.5X4	ø1X5 ø2.5X4	ø1.5X10	ø1.5X12	ø1X9 ø3X3	ø1X19
Rated voltage (AC.V)	500	500	500	500	500	500	500	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500	1500	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 ² /AWG)	≤4/12	≤4/12	≤4/12	≤0.75/18 ≤4/12	≤1.5/16	≤1.5/16	≤0.75/18 ≤4/12	≤0.75/18



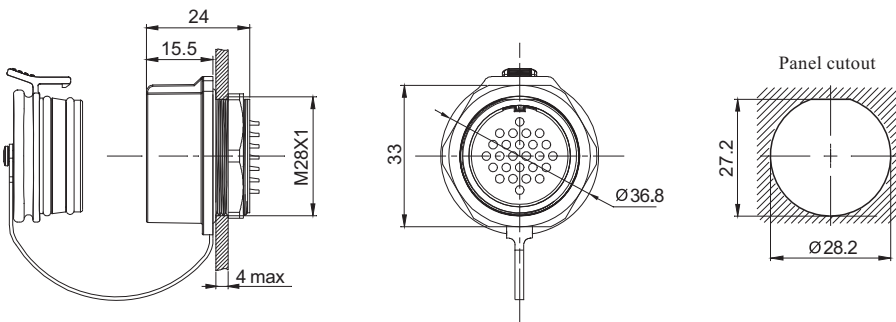
● Square flange receptacle: Z IP68



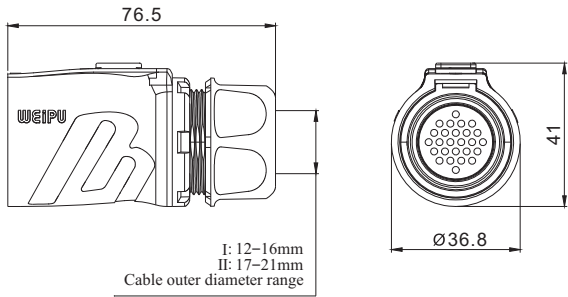
● Front-nut-mount receptacle: ZMQ IP68



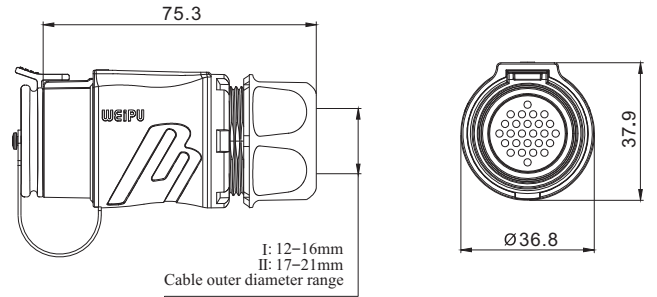
● Round flange receptacle: ZM IP68



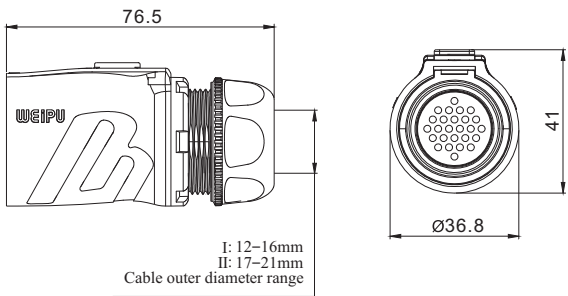
● Plug with plastic clamping-nut: TE IP68



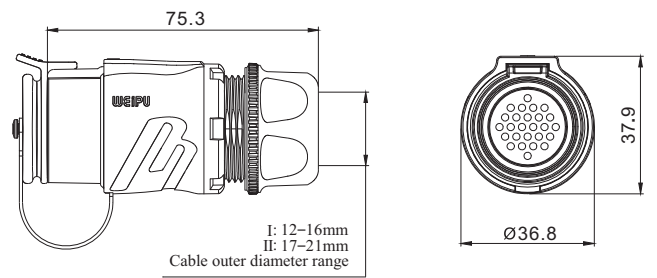
● In-line receptacle with plastic clamping-nut: ZE IP68



● Shielded Plug with metal clamping-nut: TEP IP68



● In-line shielded receptacle with metal clamping-nut: ZEP IP68



Plug cover: WK28-GT
Order number: 10221001654
Optional plug cover

★ Crimp contact spec see P22
★ Screw contact spec see P23

Solder contact spec

WK28	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	0.5. 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 ² /AWG)	≤10/7	≤10/7	≤4/12	≤4/12	≤4/12	≤16/5 ≤0.75/18	≤4/12 ≤0.75/18	≤4/12	≤1.5/16	≤1.5/16	≤1.5/16	≤1.5/16	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18

M23X Series Newly Upgraded Power & Signal Connector

● Product characteristics:

- Convenient and reliable installation of inserts, upgraded removable pin feature;
- Removable grounding insert;
- 330-degree rotatable design for angled plug and socket;
- Termination is either solder or crimp.

03





● **M23X for power**

Material and spec

Shell material	Zinc alloy with nickel plating
Contact material	Brass with gold plating
Insert material	PA66
Insulation resistance	$>10^{13}$ m Ω
Termination	Crimp
Temperature range	-40°C ~ +125°C
Mating cycle	1000
Cable outer diameter range	I: 4.5-8mm II: 8-13mm III: 12-15mm
IP rating	IP67 (mated)
Coupling	Threaded coupling

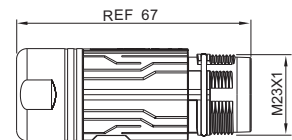


Male contact
cable connector

M23XDJ_TK_

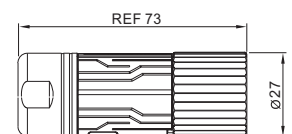
Number of contact

Cable outer diameter range
I: 4.5-8mm
II: 8-13mm
III: 12-15mm



Female contact
cable connector

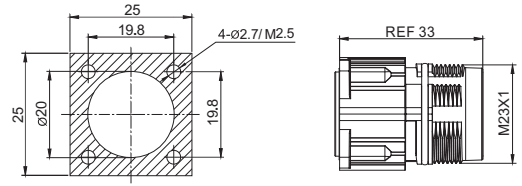
M23XDK_TK_





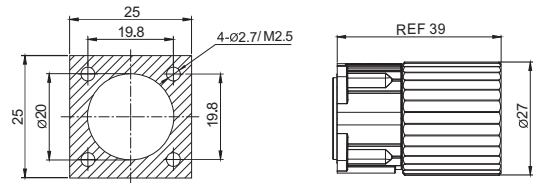
Male contact square flange receptacle

M23XDJ_Z
 └─ Number of contact



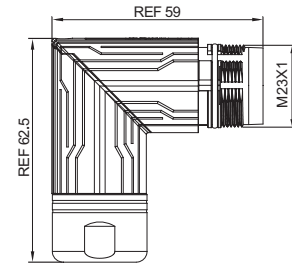
Female contact square flange receptacle

M23XDK_Z



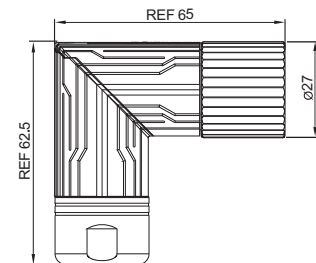
Male contact angled cable connector

M23XDJ_TL_



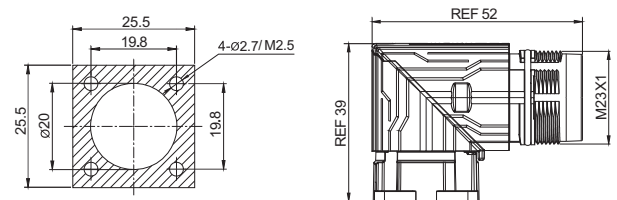
Female contact angled cable connector

M23XDK_TL_



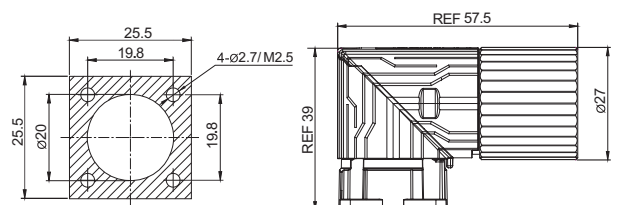
Male contact angled square flange receptacle

M23XDJ_ZL





Female contact angled square flange receptacle

M23XDK_ZL



M23X for power contact arrangement and spec

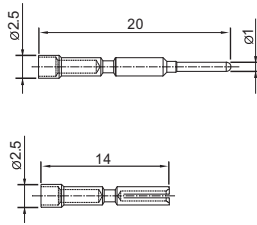
Male contact face view	Number of contact	Contact diameter (mm)	Rated voltage (AC.V)	Rated current (A)	Test voltage (AC.V)1min
	6(5+PE)	ø2	600	28	4000
	8(3+4+PE)	ø1×4 ø2×4	300 600	8 28	2500

03

M23X contact spec

8A Crimp contact

- ※ Contact diameter: ø1
- ※ Material: Brass with gold plating



8A Male crimp contact

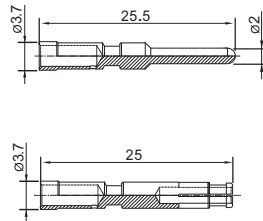
Wire size	Stripping length	Male crimp contact p/n	Crimping tool p/n
0.08-0.5mm ² AWG 28-20	4.5mm	YJ1-20-0.5AU	CT-0.031/0.52
0.25-1.0mm ² AWG 23-17	4.5mm	YJ1-20-1.0AU	CT-0.031/0.52

8A Female crimp contact

Wire size	Stripping length	Female crimp contact p/n	Crimping tool p/n
0.08-0.5mm ² AWG 28-20	4.5mm	YK1-14-0.5AU	CT-0.031/0.52
0.25-1.0mm ² AWG 23-17	4.5mm	YK1-14-1.0AU	CT-0.031/0.52

28A Crimp

- ※ Contact diameter: ø2
- ※ Material: Brass with gold plating



28A Male crimp contact

Wire size	Stripping length	Male crimp contact p/n	Crimping tool p/n
0.08-0.5mm ² AWG 28-20	7.5mm	YJ2-25.5-0.5AU	CTW-0.14/4
1-2.5mm ² AWG 18-13	7.5mm	YJ2-25.5-2.5AU	CTW-0.14/4
2.5-4mm ² AWG 13-12	7.5mm	YJ2-25.5-4.0AU	CTW-0.14/4

28A Female crimp contact

Wire size	Stripping length	Female crimp contact p/n	Crimping tool p/n
0.08-0.5mm ² AWG 28-20	7.5mm	YK2-25-0.5AU	CTW-0.14/4
1-2.5mm ² AWG 18-13	7.5mm	YK2-25-2.5AU	CTW-0.14/4
2.5-4mm ² AWG 13-12	7.5mm	YK2-25-4.0AU	CTW-0.14/4

Crimping tool

For crimping the male / female contacts



Part number	Crimping wire range
CTW-0.14/4	0.14-4mm ² AWG 25-11
CT-0.031/0.52	0.03-0.5mm ² AWG20-32

IP67

03



● **M23X for signal**

Material and spec

Shell material	Zinc alloy with nickel plating
Contact material	Brass with gold plating
Insert material	PBT
Insulation resistance	9、12 pins: $>10^{10}m\Omega$ 17、19 pins: $>10^6m\Omega$
Termination	Crimp
Temperature range	-40℃~+125℃
Mating cycle	1000
Cable outer diameter range	I: 4.5-8mm II: 8-13mm III: 12-15mm
IP rating	IP67 (mated)
Coupling	Threaded coupling



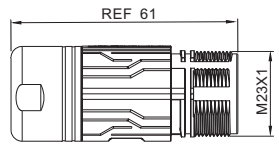
Male contact cable connector

M23XSJ_TK

Number of contact

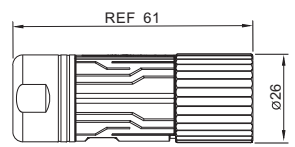
Cable outer diameter range

- I: 4.5-8mm
- II: 8-13mm
- III: 12-15mm



Female contact cable connector

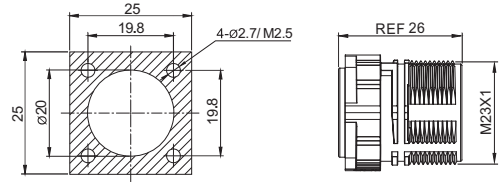
M23XSK_TK_





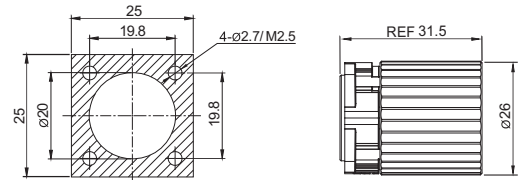
Male contact square flange receptacle

M23XSJ_Z
 └─ Number of contact



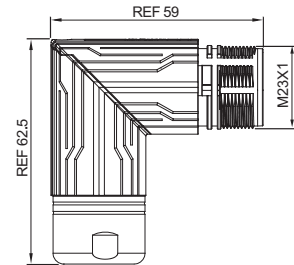
Female contact square flange receptacle

M23XSK_Z



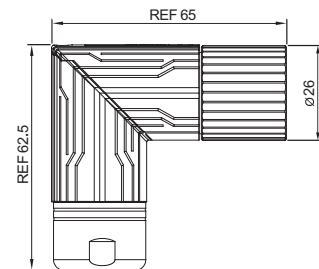
Male contact angled cable connector

M23XSJ_TL_



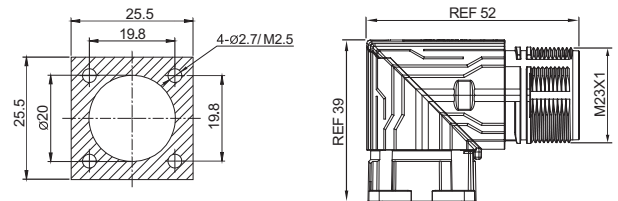
Female contact angled cable connector

M23XSK_TL_



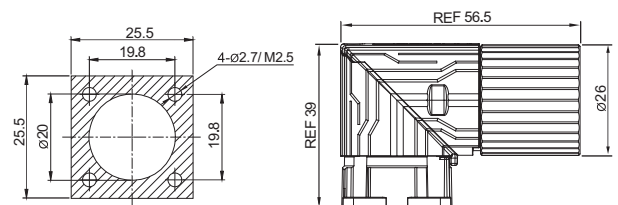
Male contact angled square flange receptacle

M23XSJ_ZL







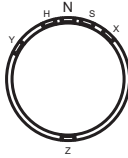
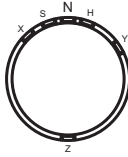
Female contact angled square flange receptacle

M23XSK_ZL



M23X 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)	$\varnothing 1 \ 8$ $\varnothing 2 \ 1$	300	$\frac{8}{20}$	2500
	12	$\varnothing 1 \ 12$	300	8	2500
	17	$\varnothing 1 \ 17$	150	8	1500
	19(16+3)	$\varnothing 1 \ 16$ $\varnothing 1.5 \ 3$	150	$\frac{8}{10}$	1500

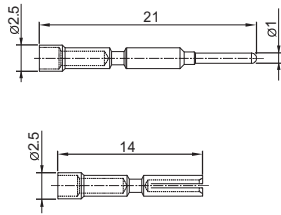
Number of Contact	Optional Angle	Coded Chuck
9	N, S, H, X, Y	 Male contact face view
12	N, S, H, X, Y, Z	
17	N, S, H, X, Y, Z	 Female contact face view
19	N, S, H, X, Y	

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

M23X for signal contact spec

8A Crimp contact

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



8A Male crimp contact

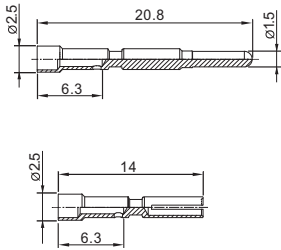
Wire size	Stripping length	Male crimp contact p/n	Crimping tool p/n
0.08-0.5mm ² AWG 28-20	4.5mm	YJ1-21-0.5AU	CT-0.031/0.52
0.56-1mm ² AWG 20-17	4.5mm	YJ1-21-1.0AU	CT-0.031/0.52
1-1.5mm ² AWG 17-16	4.5mm	YJ1-21-1.5AU	CT-0.031/0.52

8A Female crimp contact

Wire size	Stripping length	Female crimp contact p/n	Crimping tool p/n
0.08-0.5mm ² AWG 28-20	4.5mm	YK1-14-0.5AU	CT-0.031/0.52
0.56-1mm ² AWG 20-17	4.5mm	YK1-14-1.0AU	CT-0.031/0.52
1-1.5mm ² AWG 17-16	4.5mm	YK1-14-1.5AU	CT-0.031/0.52

10A Crimp contact

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



10A Male contact crimp

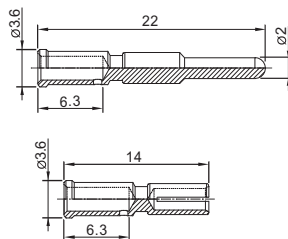
Wire size	Stripping length	Male crimp contact p/n	Crimping tool p/n
0.14-0.5mm ² AWG 26-20	4.5mm	YJ1.5-20.8-0.5AU	CT-0.031/0.52
0.5-1mm ² AWG 20-17	4.5mm	YJ1.5-20.8-1.0AU	CT-0.031/0.52
1-1.5mm ² AWG 17-16	4.5mm	YJ1.5-20.8-1.5AU	CT-0.031/0.52

10A Female crimp contact

Wire size	Stripping length	Female crimp contact p/n	Crimping tool p/n
0.14-0.5mm ² AWG 26-20	4.5mm	YK1.5-14-0.5AU	CT-0.031/0.52
0.56-1mm ² AWG 20-17	4.5mm	YK1.5-14-1.0AU	CT-0.031/0.52
1-1.5mm ² AWG 17-16	4.5mm	YK1.5-14-1.5AU	CT-0.031/0.52

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 ² AWG 18-13	6.5mm	YJ2-22-2.5AU	CTW-0.14/4

20A Female crimp contact

Wire size	Stripping length	Female crimp contact p/n	Crimping tool p/n
0.75-2.5mm ² AWG 18-13	6.5mm	YK2-14-2.5AU	CTW-0.14/4

Crimp tool

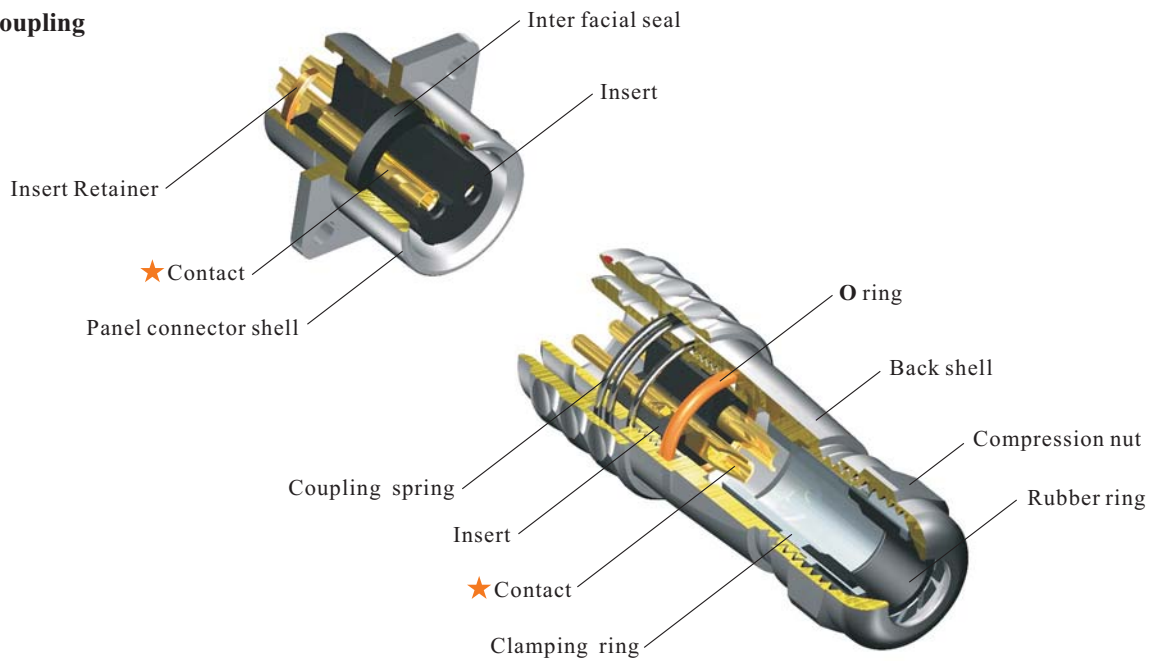
For crimping the male / female contacts



Part number	Crimping wire range
CTW-0.14/4	0.14-4mm ² AWG 25-11
CT-0.031/0.52	0.03-0.5mm ² AWG20-32

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, SF24 Crimp: SF16, SF20, SF24 Screw: SF20, SF24 (Ø2.5mm contact)
Cable outer diameter range	SF6: I: 2-3mm, II:3-4mm SF8: I: 3-4mm, II:4-5mm SF10: I: 3-4mm, II:4-6.5mm SF12: I: 4-6.5mm, II: 5-8mm SF16: I: 5-8mm, II: 8-12mm SF20: I: 5-9mm, II:8-12mm SF24: 10-14mm
IP rating	IP67 (mated)
Mating cycle	500
Temperature range	-40°C ~+85°C
Insulation resistance	2000MΩ

SF6 Series



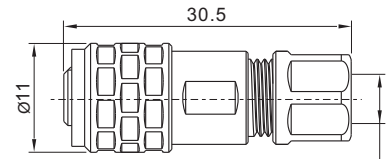
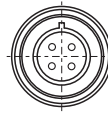
Cable connector
Mate with SF611B, SF612B,
SF615B

SF610B/P

SF610B/S

Male contact

Cable outer diameter range
I: 2-3mm, II: 3-4mm
Number of contact
Female contact



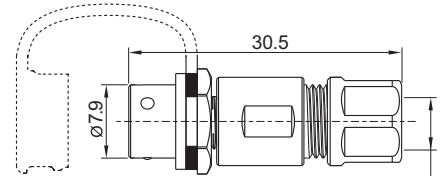
I: 2-3mm, II: 3-4mm
Cable outer diameter range



In-line cable connector
Mate with SF610B

SF611B/P

SF611B/S



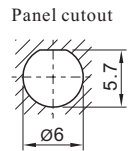
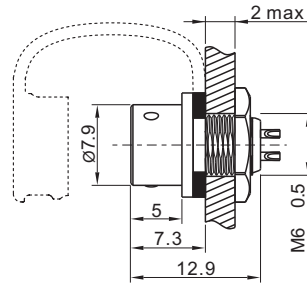
I: 2-3mm, II: 3-4mm
Cable outer diameter range



Rear-nut mount
Mate with SF610B

SF612B/P

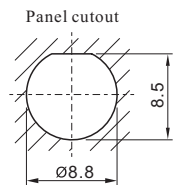
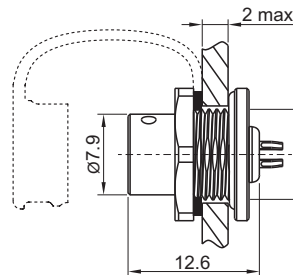
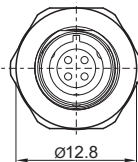
SF612B/S



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)	Ø0.6 2	Ø0.6 3	Ø0.6 4	Ø0.6 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 ² /AWG)	≤ 0.5/20	≤ 0.5/20	≤ 0.5/20	≤ 0.5/20

SF8 Series

SF
8



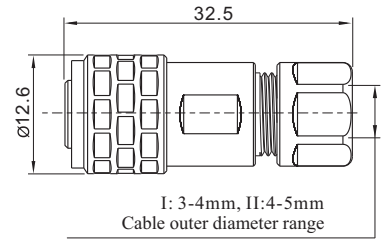
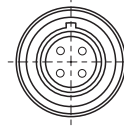
Cable connector
Mate with SF811B, SF812B,
SF815B

SF810B/P

SF810B/S

Male contact

Cable outer diameter range
I: 3-4mm, II: 4-5mm
Number of contact
Female contact



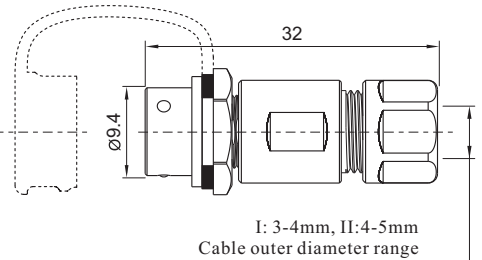
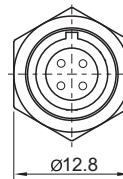
04



In-line cable connector
Mate with SF810B

SF811B/P

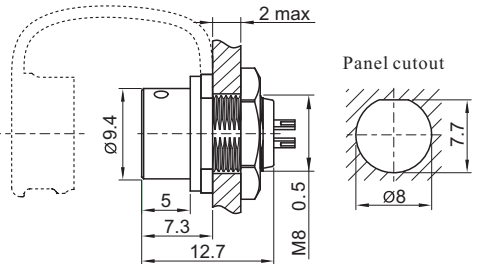
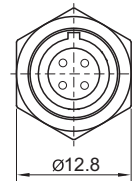
SF811B/S



Rear-nut mount
Mate with SF810B

SF812B/P

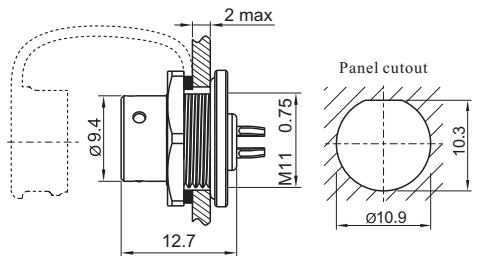
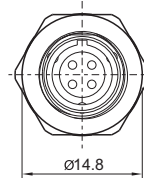
SF812B/S



Front-nut mount
Mate with SF810B

SF815B/P

SF815B/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)	Ø1×2	Ø1×3	Ø0.6×4	Ø0.6×6	Ø0.6×8
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 ² /AWG)	≤0.75/18	≤0.75/18	≤0.5/20	≤0.5/20	≤0.5/20

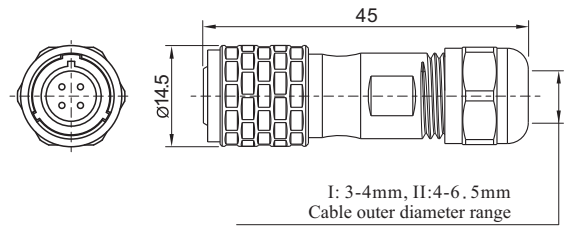
SF10 Series



Cable connector
Mate with SF1011, SF1012,
SF1015

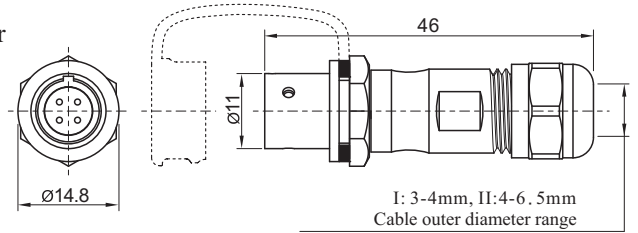
SF1010 / P — SF1010 / S —
Male contact

Cable outer diameter range
I: 3-4mm, II: 4-6.5mm
Number of contact
Female contact



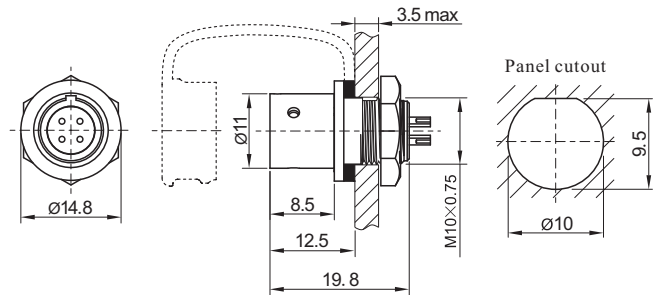
In-line cable connector
Mate with SF1010

SF1011 / P — SF1011 / S —



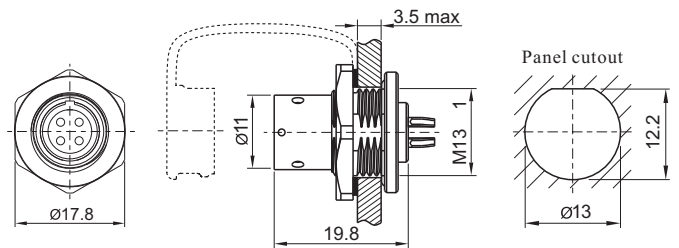
Rear-nut mount
Mate with SF1010

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)	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 ² /AWG)	≤0.75/18	≤0.75/18	≤0.5/20	≤0.5/20

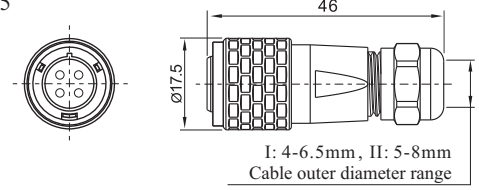
SF12 Series

**SF
12**



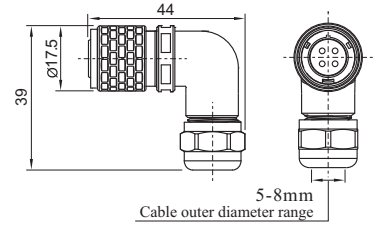
Cable connector
Mate with SF1211, SF1212, SF1213, SF1215

SF1210 / P — **SF1210 / S** —
Male contact
Cable outer diameter
I: 4-6.5mm, II: 5-8mm
Number of contact
Female contact



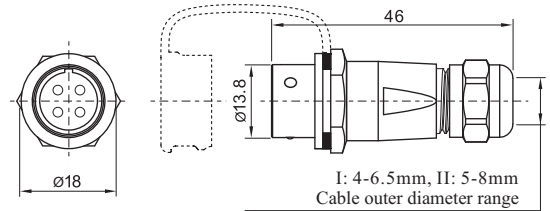
Angled cable connector
Mate with SF1211, SF1212, SF1213, SF1215

SF1214 / P — II **SF1214 / S** — II



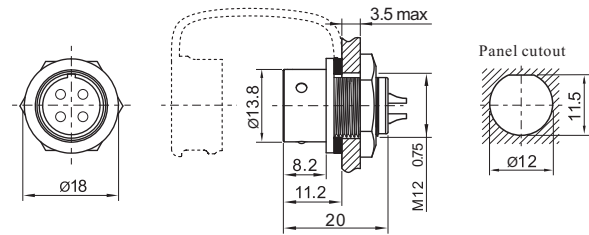
In-line cable connector
Mate with SF1210, SF1214

SF1211 / P — **SF1211 / S** —



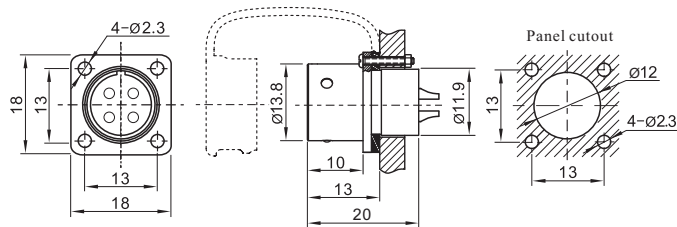
Rear-nut mount
Mate with SF1210, SF1214

SF1212 / P — **SF1212 / S** —
Number of contact



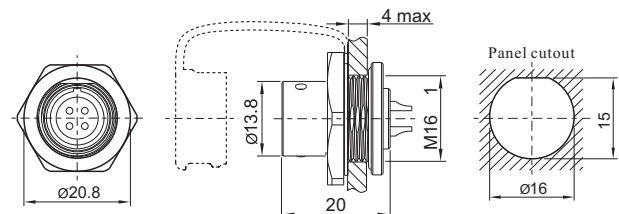
Square flange
Mate with SF1210, SF1214

SF1213 / P — **SF1213 / S** —



Front-nut mount
Mate with SF1210, SF1214

SF1215 / P — **SF1215 / S** —



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 ² /AWG)	≤1.5/16	≤1.5/16	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18	≤0.5/20

SF12 Series

**SF
12**

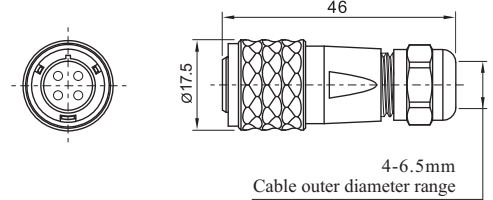


Cable connector
Mate with SF1211, SF1212, SF1213

SF1210 / P — Male contact

SF1210 / S — Female contact

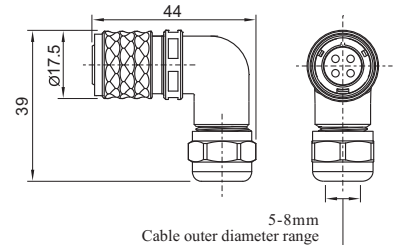
(U) : Number of contact



Angled cable connector
Mate with SF1211, SF1212, SF1213

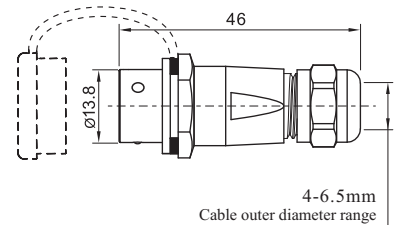
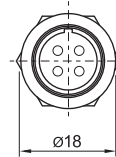
SF1214 / P — II — SF1214 / S — II —

(U) : Number of contact



In-line cable connector
Mate with SF1210, SF1214

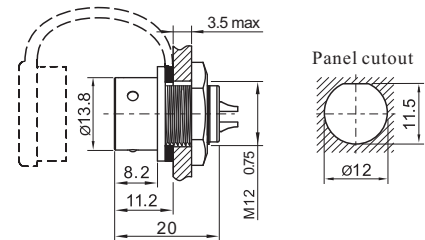
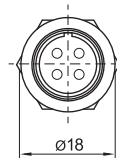
SF1211 / P — SF1211 / S —



Rear-nut mount
Mate with SF1210, SF1214

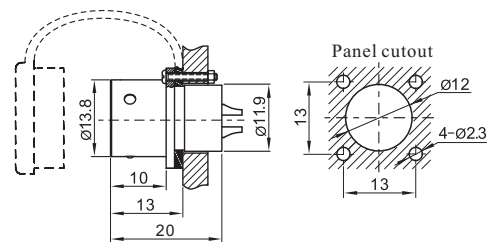
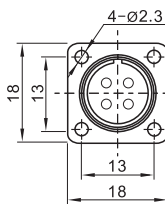
SF1212 / P — SF1212 / S —

(U) : Number of contact



Square flange
Mate with SF1210, SF1214

SF1213 / P — SF1213 / S —



Solder contact spec

Number of contact	4	5	6	7
Male contact face view				
Rated current (A)	5	5	5	5
Contact diameter(mm)	Ø1X4	Ø1X5	Ø1X6	Ø1X7
Rated voltage (AC.V)	300	300	300	300
Test voltage(AC.V) 1 min	1500	1000	1000	1000
Contact resistance (mΩ)	5	5	5	5
Wire size (AWG)	18	18	18	18

SF16 Series

**SF
16**

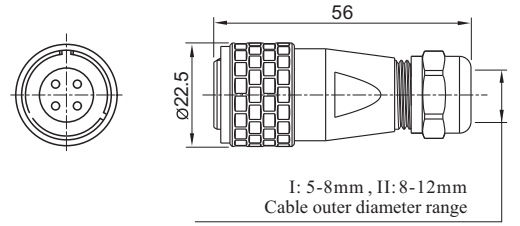


Cable connector
Mate with SF1611, SF1612,
SF1613, SF1615

SF1610 / P ___ SF1610 / S ___

Male contact

- I: solder, 3: crimp
- Cable outer diameter
I: 5-8mm, II: 8-12mm
- Number of contact
- Female contact

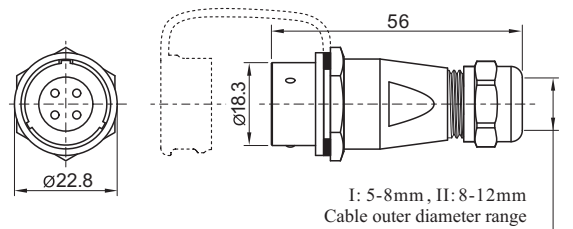


04



In-line cable connector
Mate with SF1610

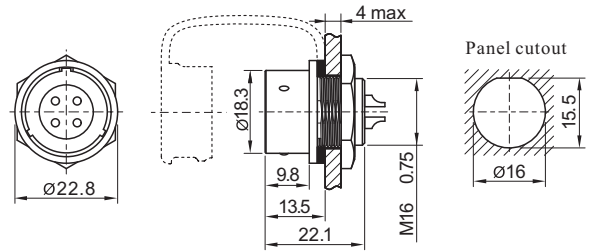
SF1611 / P ___ SF1611 / S ___



Rear-nut mount
Mate with SF1610

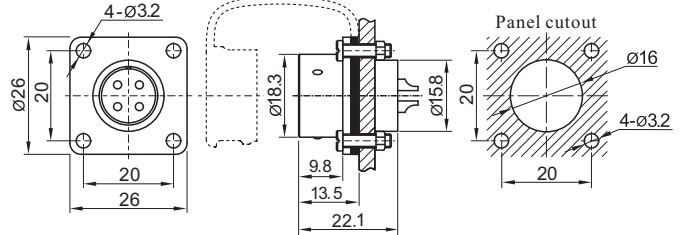
SF1612 / P ___ SF1612 / S ___

- I: solder, 3: crimp
- Number of contact



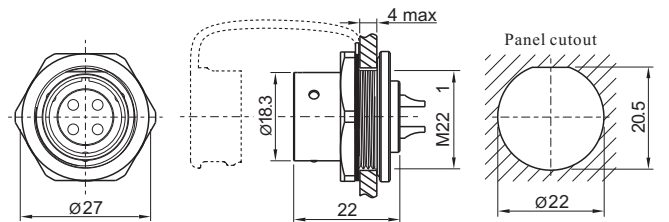
Square flange
Mate with SF1610

SF1613 / P ___ SF1613 / S ___



Front-nut mount
Mate with SF1610

SF1615 / P ___ SF1615 / S ___



Solder contact spec

★ Crimp contact spec see P22

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 ² /AWG)	≤1.5/16	≤1.5/16	≤0.75/18	≤1.5/16	≤1.5/16	≤1.5/16	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18

SF20 Series

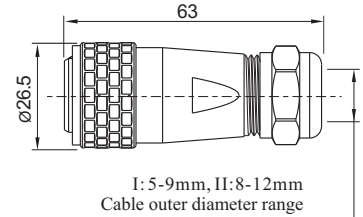
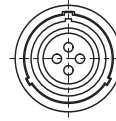
**SF
20**



Cable connector
Mate with SF2011, SF2012
SF2013, SF2015

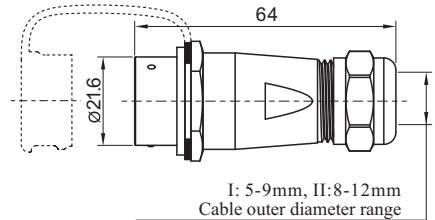
SF2010/P___ SF2010/S___
Male contact

1: solder, 2: screw, 3: crimp
Cable outer diameter range
I: 5-9mm, II: 8-12mm
Number of contact
Female contact



In-line cable connector
Mate with SF2010

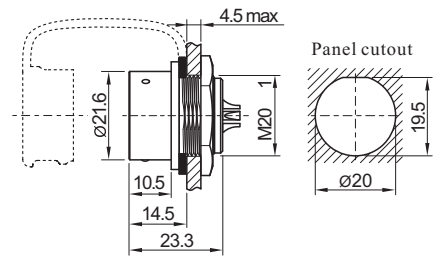
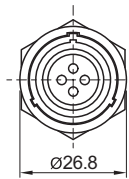
SF2011/P___ SF2011/S___



Rear-nut mount
Mate with SF2010

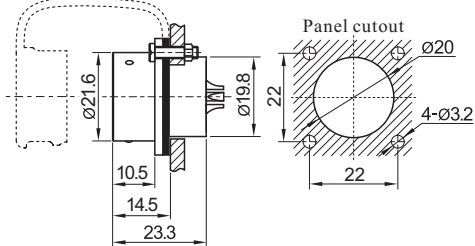
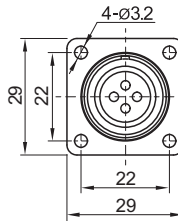
SF2012/P___ SF2012/S___

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



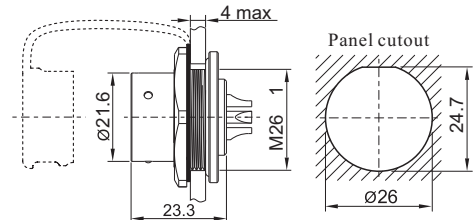
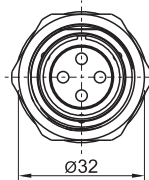
Square flange
Mate with SF2010

SF2013/P___ SF2013/S___



Front-nut mount
Mate with SF2010

SF2015/P___ SF2015/S___



Solder contact spec

★Crimp contact spec see P22 ★Screw contact spec see P23

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 ² /AWG)	≤4/12	≤4/12	≤4/12	≤1.5/16	≤4/12 ≤0.75/18	≤4/12 ≤0.75/18	≤1.5/16	≤1.5/16	≤0.75/18	≤0.75/18	≤0.75/18
Wire size for screw termination (mm ² /AWG)	Min:0.5/20 Max:1.5/15	Min:0.5/20 Max:1.5/15	Min:0.5/20 Max:1.5/15	/	/	/	/	/	/	/	/

SF24 Series

SF
24

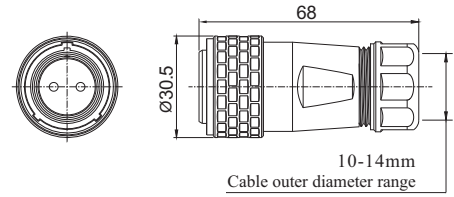


Cable connector
Mate with SF2411, SF2412, SF2413, SF2415

SF2410 / P _ _ _ SF2410 / S _ _ _

Male contact

1: solder, 2: screw, 3: crimp
Cable outer diameter range
10-14mm,
Number of contact
Female contact

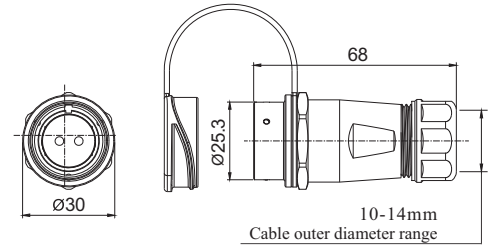


04



In-line cable connector
Mate with SF2410

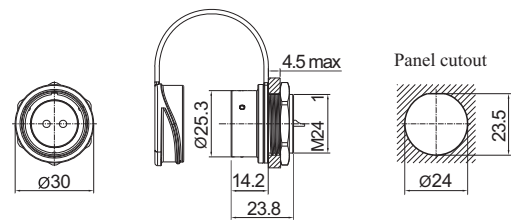
SF2411 / P _ _ _ SF2411 / S _ _ _



Rear-nut mount
Mate with SF2410

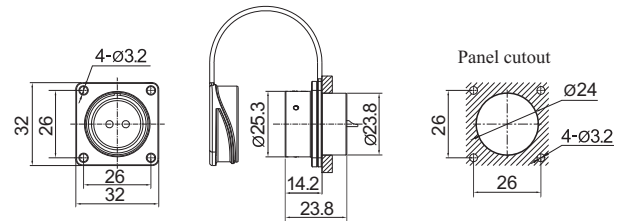
SF2412 / P _ _ _ SF2412 / S _ _ _

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



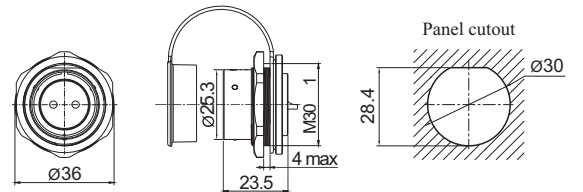
Square flange
Mate with SF2410

SF2413 / P _ _ _ SF2413 / S _ _ _



Front-nut mount
Mate with SF2410

SF2415 / P _ _ _ SF2415 / S _ _ _



Solder contact spec

★ Crimp contact spec see P22 ★ Screw contact spec see P23

Number of contact	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)	ø2.5X2	ø2.5X3	ø2.5X4	ø1X5 ø2.5X4	ø1.5X10	ø1.5X12	ø1X9 ø3X3	ø1X19
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 ² /AWG)	≤4/12	≤4/12	≤4/12	≤0.75/18 ≤4/12	≤1.5/16	≤1.5/16	≤0.75/18 ≤4/12	≤0.75/18
Wire size for screw termination	Min:0.5/20 Max:1.5/15	Min:0.5/20 Max:1.5/15	Min:0.5/20 Max:1.5/15	/	/	/	/	/

SF24 Series

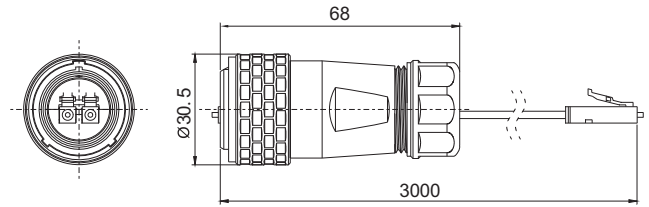


Plug with LC adapter
Mate with SF2411, SF2412, SF2413

SF2410/PLC -

Cable length:
1.0m
3.0m
5.0m

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

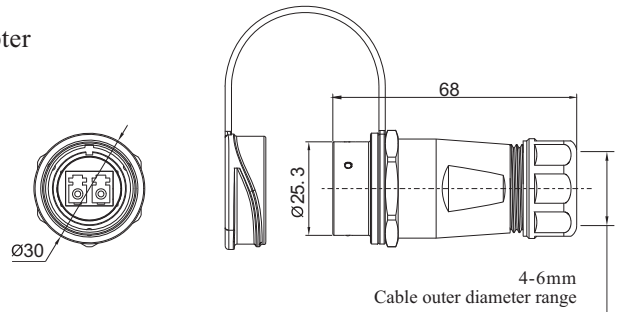


★ Cable length can be customized



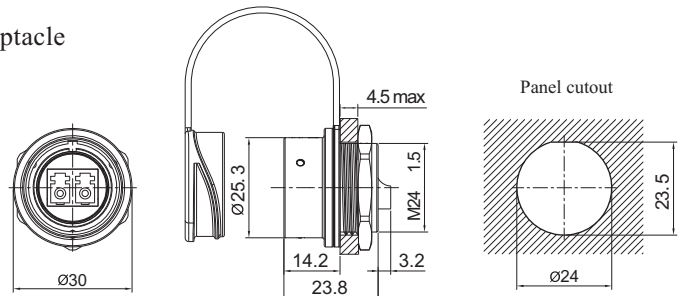
Receptacle with LC adapter
Mate with SF2410

SF2411/SLC -



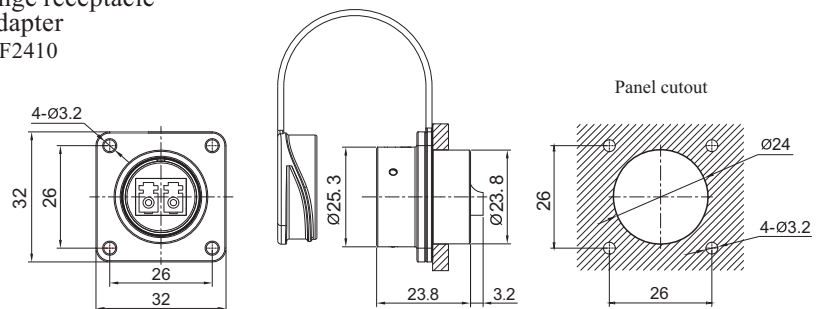
Rear-nut mount receptacle with LC adapter
Mate with SF2410

SF2412/SLC -



Square flange receptacle with LC adapter
Mate with SF2410

SF2413/SLC -



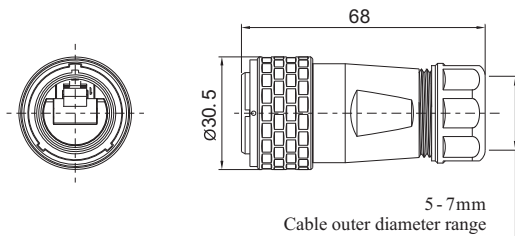
SF24 Series



RJ45 Plug
Mate with SF2411, SF2412, SF2413

SF2410/PRJ45

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

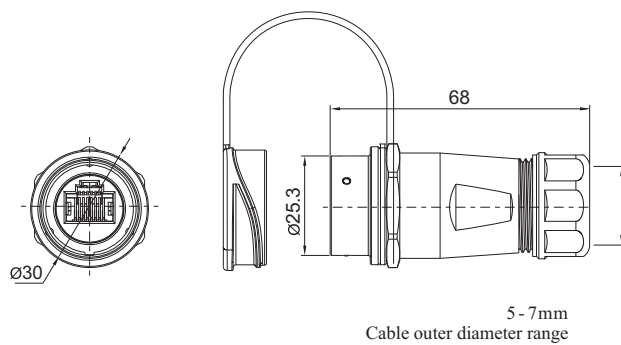


RJ45 Receptacle
Mate with SF2410

SF2411/SRJ45

Blank: CAT5
-C6: CAT6

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

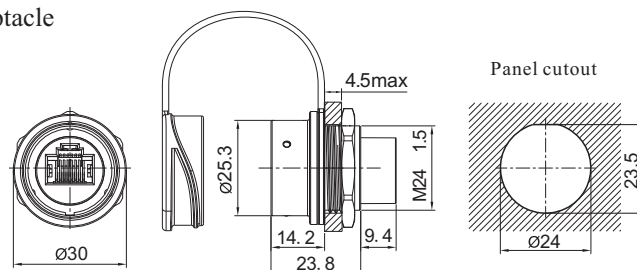


RJ45 Rear-nut mount receptacle
Mate with SF2410

SF2412/SRJ45

Blank: CAT5
-C6: CAT6

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

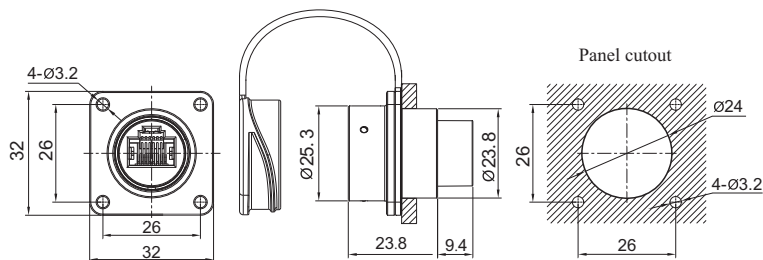


RJ45 Square flange receptacle
Mate with SF2410

SF2413/SRJ45

Blank: CAT5
-C6: CAT6

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



SF24 Series

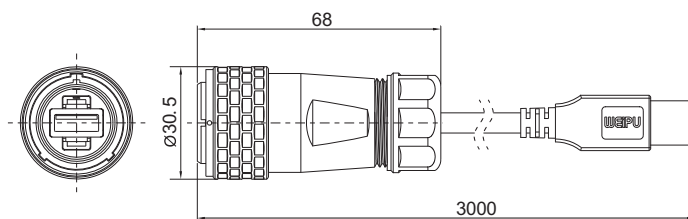


USB3.0 Plug
Mate with SF2411, SF2412, SF2413

SF2410/PUSB3.0 —

Cable length:
1.0m
3.0m
5.0m

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

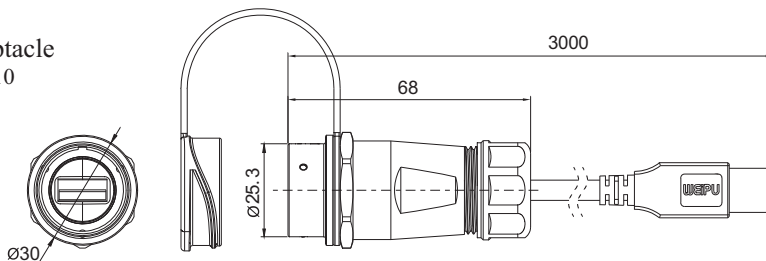


★ The cable length can be customized, but not more than 3 meters.



USB3.0 Receptacle
Mate with SF2410

SF2411/SUSB3.0 —

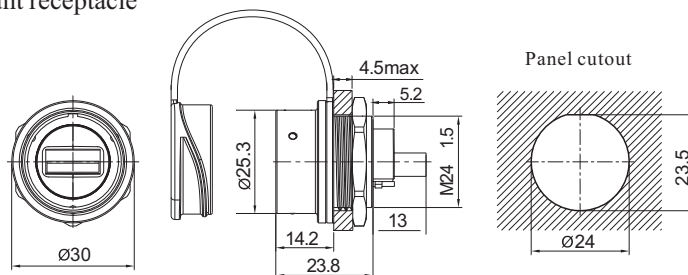


★ The cable length can be customized, but not more than 3 meters.



USB3.0 Rear-nut mount receptacle
Mate with SF2410

SF2412/SUSB3.0 —

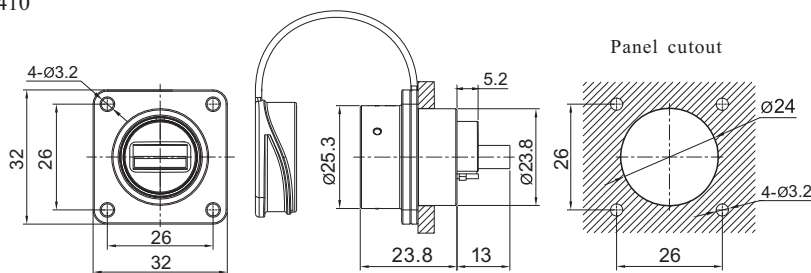


★ The cable length can be customized, but not more than 3 meters.



USB3.0 Square flange receptacle
Mate with SF2410

SF2413/SUSB3.0 —



★ The cable length can be customized, but not more than 3 meters.

SF24 Series

04

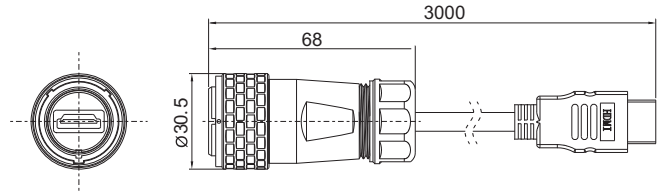


HDMI2.0 Plug
Mate with SF2411, SF2412, SF2413

SF2410/PHDMI2.0 —

Cable length:
1.0m
3.0m
5.0m

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

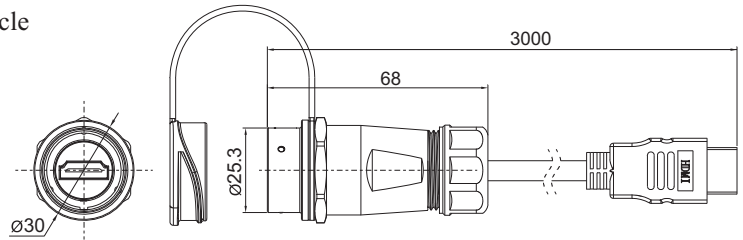


★ The cable length can be customized, but not more than 5 meters.



HDMI2.0 Receptacle
Mate with SF2410

SF2411/SHDMI2.0 —

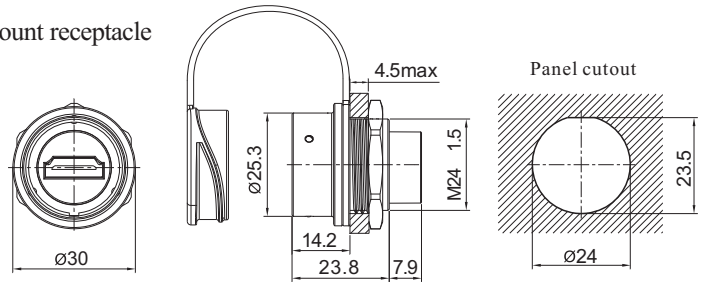


★ The cable length can be customized, but not more than 5 meters.



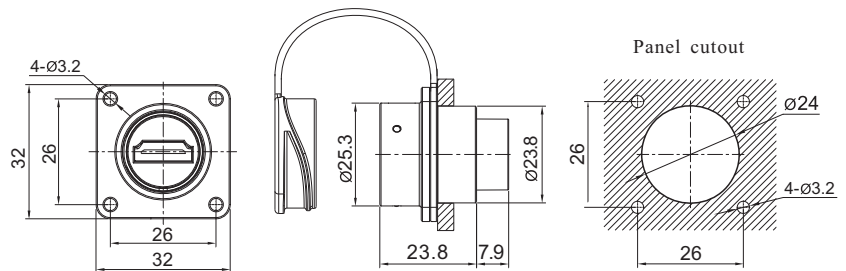
HDMI2.0 Rear-nut mount receptacle
Mate with SF2410

SF2412/SHDMI2.0 —



HDMI2.0 Square flange receptacle
Mate with SF2410

SF2413/SHDMI2.0 —



SF6 Anti-bending



SF6
Anti-bending



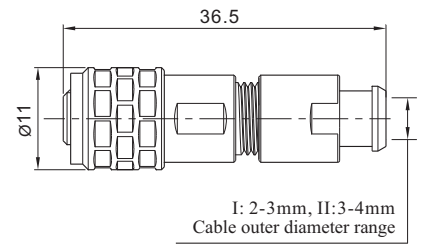
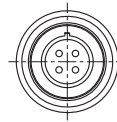
Cable connector
Mate with SF611S, SF612B, SF615B

SF610S/P__

SF610S/S__

Male contact

Cable outer diameter range
I: 2-3mm, II: 3-4mm
Number of contact
Female contact



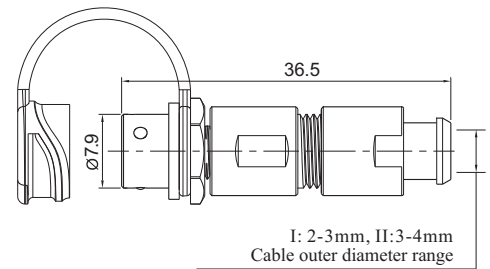
04



In-line cable connector
Mate with SF610S

SF611S/P__

SF611S/S__



Note: The bend relief must be ordered separately (page 04-20)

Solder contact spec

Number of contact	2	3	4	5
Male contact face view				
Rated current (A)	3	3	3	3
Contact diameter(mm)	$\varnothing 0.6$ 2	$\varnothing 0.6$ 3	$\varnothing 0.6$ 4	$\varnothing 0.6$ 5
Rated voltage (AC.V)	30	30	30	30
Test voltage(AC.V) 1 min	500	500	500	500
Contact resistance(m Ω)	10	10	10	10
Wire size (mm ² /AWG)	$\leq 0.5/20$	$\leq 0.5/20$	$\leq 0.5/20$	$\leq 0.5/20$



SF8 Anti-bending

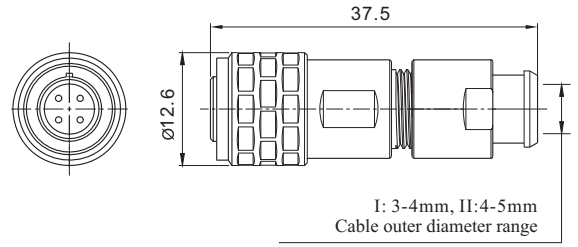


Cable connector
Mate with SF811S, SF812B, SF815B

SF810S/P — SF810S/S

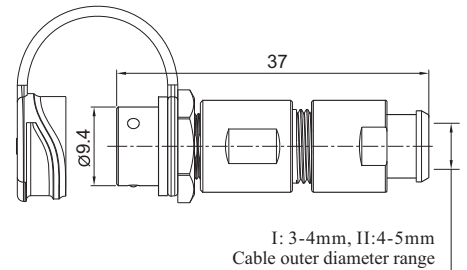
Male contact

Cable outer diameter range
I: 3-4mm, II:4-5mm
Number of contact
Female contact



SF811S/P — SF811S/S

In-line cable connector
Mate with SF810S



Note: The bend relief must be ordered separately(page 04-20)

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)	Ø1×2	Ø1×3	Ø0.6×4	Ø0.6×6	Ø0.6×8
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 ² /AWG)	≤0.75/18	≤0.75/18	≤0.5/20	≤0.5/20	≤0.5/20



SF10 Anti-bending

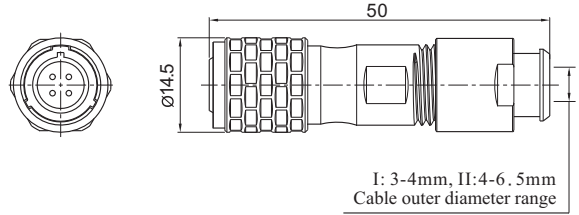


Cable connector
Mate with SF1011S, SF1012, SF1015

SF1010S/P — SF1010S/S

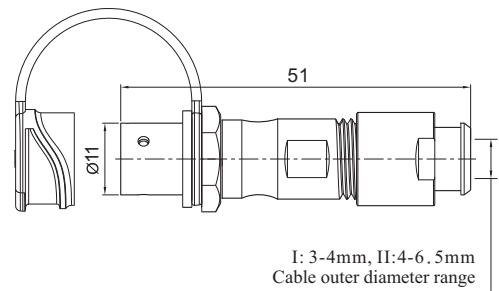
Male contact

Cable outer diameter range
I: 3-4mm, II: 4-6.5mm
Number of contact
Female contact



In-line cable connector
Mate with SF1010S

SF1011S/P — SF1011S/S



Note: The bend relief must be ordered separately (page 04-20)

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 ² /AWG)	≤0.75/18	≤0.75/18	≤0.5/20	≤0.5/20



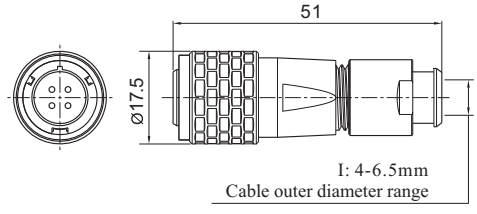
SF12 Anti-bending



SF1210S/P — Male contact
SF1210S/S — Female contact

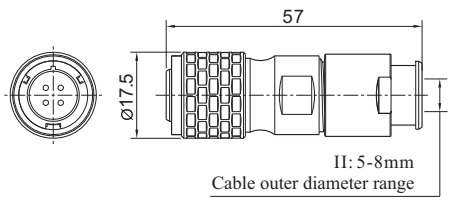
Cable connector
Mate with SF1211S, SF1212, SF1213, SF1215

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



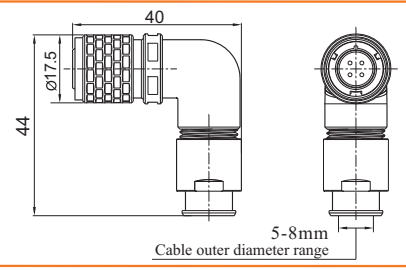
SF1210S/P—II SF1210S/S—II

Cable connector
Mate with SF1211S II, SF1212, SF1213, SF1215



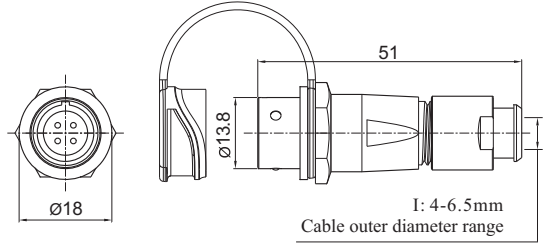
SF1214S/P—II SF1214S/S—II

Angled cable connector
Mate with SF1211S II, SF1212, SF1213, SF1215



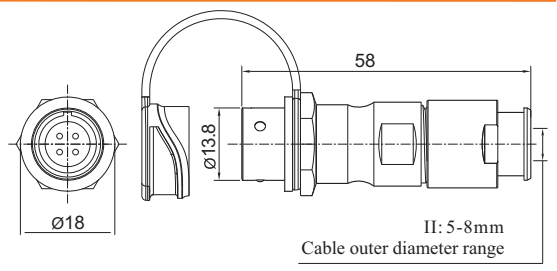
SF1211S/P — SF1211S/S —

In-line cable connector
Mate with SF1210S



SF1211S/P—II SF1211S/S—II

In-line cable connector
Mate with SF1210S II, SF1214S II



Note: The bend relief must be ordered separately(page 04-20)

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 ² /AWG)	≤1.5/16	≤1.5/16	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18	≤0.5/20



SF16
Anti-bending

SF16 Anti-bending

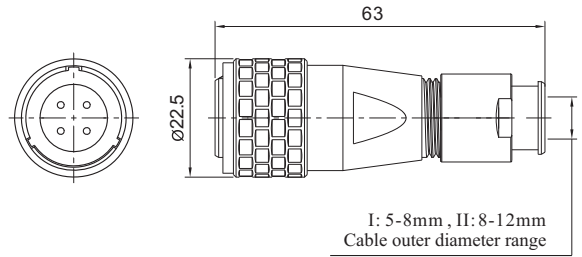


Cable connector
Mate with SF1611S, SF1612, SF1613, SF1615

SF1610S/P — — SF1610S/S — —

Male contact

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

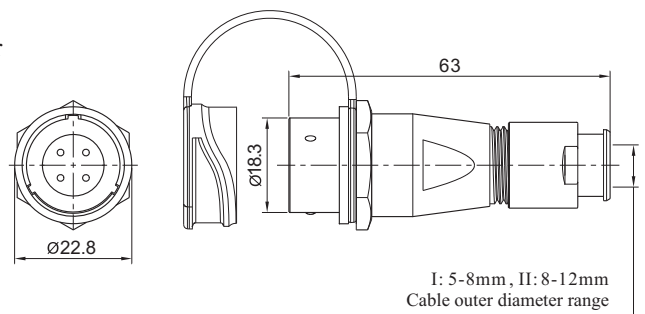


04



In-line cable connector
Mate with SF1610S

SF1611S/P — — SF1611S/S — —



Note: The bend relief must be ordered separately (page 04-20)

Solder contact spec

★ Crimp contact spec see P22

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 ² /AWG)	≤1.5/16	≤1.5/16	≤0.75/18	≤1.5/16	≤1.5/16	≤1.5/16	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18

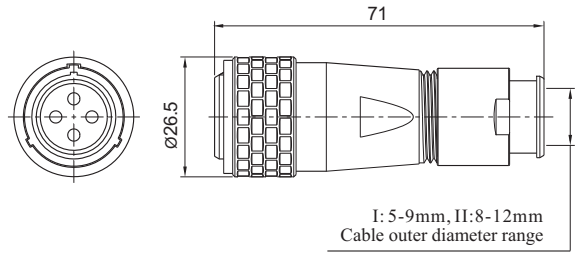


SF20 Anti-bending



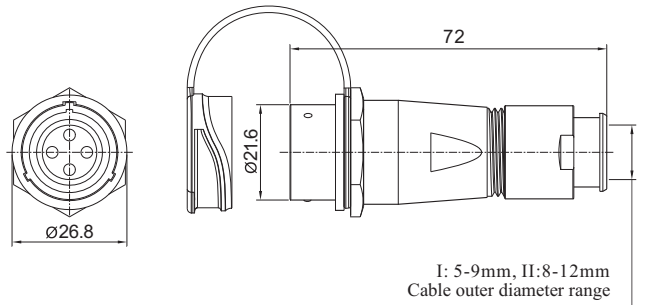
Cable connector
Mate with SF2011S, SF2012, SF2013, SF2015

SF2010S/P --- SF2016S/S ---
Male contact
1: solder, 2: screw, 3: crimp
Cable outer diameter range
I: 5-9mm, II: 8-12mm
Number of contact
Female contact



In-line cable connector
Mate with SF2010S

SF2011S/P --- SF2011S/S ---



Note: The bend relief must be ordered separately (page 04-20)

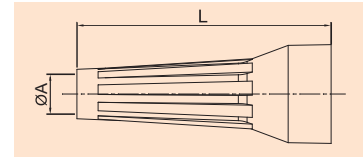
Solder contact spec

★ Crimp contact spec see P22

★ Screw contact spec see P23

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 ² /AWG)	≤4/12	≤4/12	≤4/12	≤1.5/16	≤4/12 ≤0.75/18	≤4/12 ≤0.75/18	≤1.5/16	≤1.5/16	≤0.75/18	≤0.75/18	≤0.75/18
Wire size for screw termination (mm ² /AWG)	Min:0.5/20 Max:1.5/15	Min:0.5/20 Max:1.5/15	Min:0.5/20 Max:1.5/15	/	/	/	/	/	/	/	/

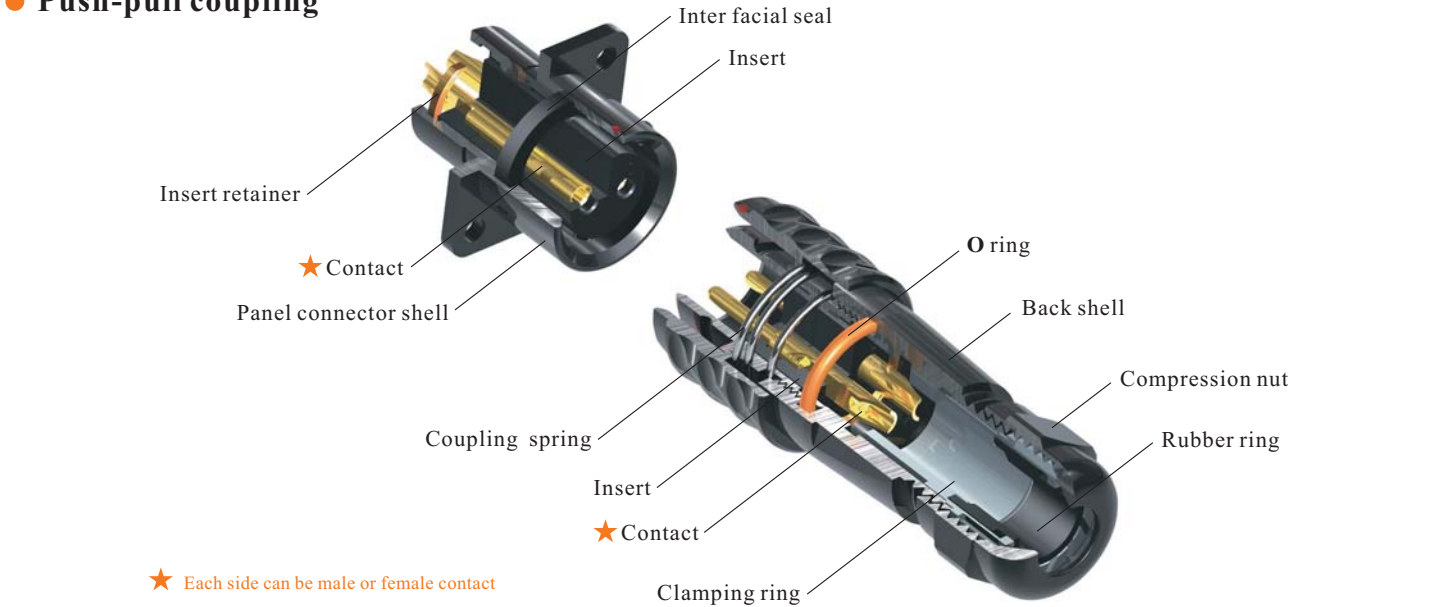
SF Bend relief (TPU)



Part model	Series	Bend relief		Cable Ø		Material	Temperature range
		A Line port	L Length	min.	max.		
SF6-FZ(2-2.5)-TBK	SF6	2.3	26	2	2.5	TPU Thermoplastic Polyurethane	-40°C~80°C
SF6-FZ(2.6-3)-TBK		2.8	26	2.6	2.8		
SF6-FZ(3-3.5)-TBK		3.3	26	3	3.5		
SF6-FZ(3.6-4)-TBK		3.8	26	3.6	4		
SF8-FZ(3-3.5)-TBK	SF8	3.3	28	3	3.5		
SF8-FZ(3.6-4)-TBK		3.8	28	3.6	4		
SF8-FZ(4-4.5)-TBK		4.3	28	4	4.5		
SF8-FZ(4.6-5)-TBK		4.8	28	4.6	5		
SF10-FZ(3-3.5)-TBK	SF10	3.3	35	3	3.5		
SF10-FZ(3.6-4)-TBK		3.8	35	3.6	4		
SF10-FZ(4-4.5)-TBK		4.3	35	4	4.5		
SF10-FZ(4.6-5)-TBK		4.8	35	4.6	5		
SF10-FZ(5-5.5)-TBK		5.3	35	5	5.5		
SF10-FZ(5.6-6)-TBK		5.8	35	5.6	6		
SF10-FZ(6-6.5)-TBK	SF12	6.3	35	6	6.5		
SF12-FZ(5-5.5)-TBK		5.3	42	5	5.5		
SF12-FZ(5.6-6)-TBK		5.8	42	5.6	6		
SF12-FZ(6-6.5)-TBK		6.3	42	6	6.5		
SF12-FZ(6.6-7)-TBK		6.8	42	6.6	7		
SF12-FZ(7-7.5)-TBK		7.3	42	7	7.5		
SF12-FZ(7.6-8)-TBK	SF16 SF20	7.8	42	7.6	8		
SF16-FZ(8-8.5)-TBK		8.3	56	8	8.5		
SF16-FZ(8.6-9)-TBK		8.8	56	8.6	9		
SF16-FZ(9-9.5)-TBK		9.3	56	9	9.5		
SF16-FZ(9.6-10)-TBK		9.8	56	9.6	10		
SF16-FZ(10-10.5)-TBK		10.3	56	10	10.5		
SF16-FZ(10.6-11)-TBK		10.8	56	10.6	11		
SF16-FZ(11-11.5)-TBK		11.3	56	11	11.5		
SF16-FZ(11.6-12)-TBK	11.8	56	11.6	12			

IP67

- SA Series IP67
- Push-pull coupling



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, SA24, SA28 Crimp: SA16, SA20, SA24, SA28 Screw: SA20, SA24, SA28		
Cable outer diameter range	SA6: I:2-3mm, II: 3-4mm SA8: I:3-4mm, II: 4-5mm SA10: I:3-4mm, II: 4-6.5mm	SA12: I: 4-6.5mm, II: 5-8mm SA16: I: 5-8mm, II: 8-12mm SA 20: I: 5-9mm, II: 8-12mm	SA24:10-14mm SA28:1-9-13mm, II:13-16mm
IP rating	IP67 (mated)		
Mating cycle	500 USB:1000		
Temperature range	-40°C ~+85°C; Signal, Data: -20°C ~+70°C		
Insulation resistance	2000MΩ		
Transmission Speed	Cat 5: 100Mbps Cat 6: 100-1000Mbps		

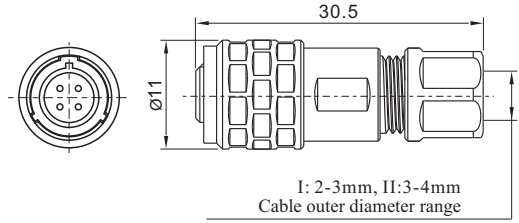
SA6 Series



Cable connector
Mate with SA611, SA612,
SA615

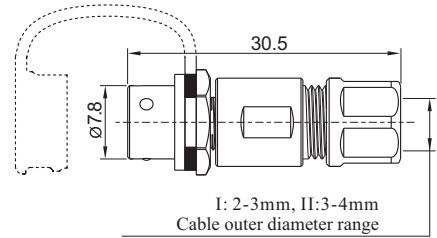
SA610 / P _____ SA610 / S _____
Male contact

- Colour:
- B: Black
- S: Silver
- L: Blue (special order)
- G: Green (special order)
- R: Red (special order)
- Cable outer diameter range
- I: 2-3mm, II: 3-4mm
- Number of contact
- Female contact



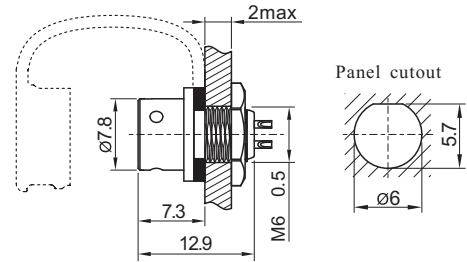
In-line cable connector
Mate with SA610

SA611 / P _____ SA611 / S _____



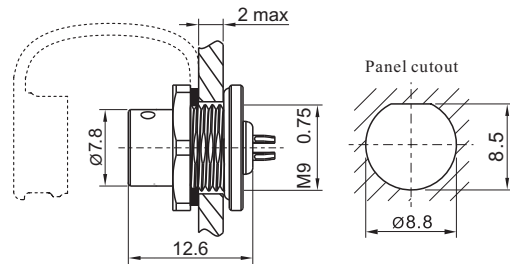
Rear-nut mount
Mate with SA610

SA612 / P _____ SA612 / S _____



Front-nut mount
Mate with SA610

SA615 / P _____ SA615 / 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)	Ø0.6 2	Ø0.6 3	Ø0.6 4	Ø0.6 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 ² /AWG)	≤0.5/20	≤0.5/20	≤0.5/20	≤0.5/20

SA8 Series

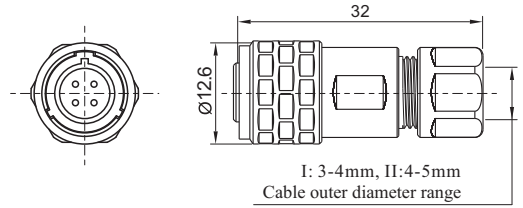


Cable connector
Mate with SA811, SA812,
SA815

SA810 / P SA810 / S

Male contact

- Colour:
- B: Black
- S: Silver
- L: Blue (special order)
- G: Green (special order)
- R: Red (special order)
- Cable outer diameter range
- I: 3-4mm, II: 4-5mm
- Number of contact
- Female contact

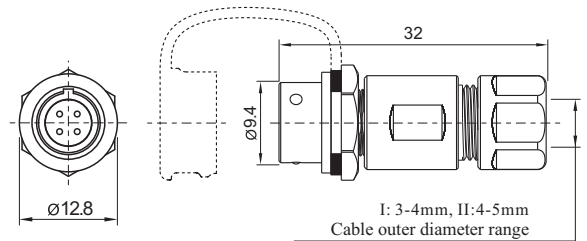


05



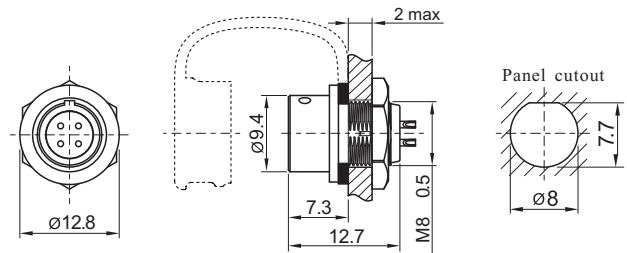
In-line cable connector
Mate with SA810

SA811 / P SA811 / S



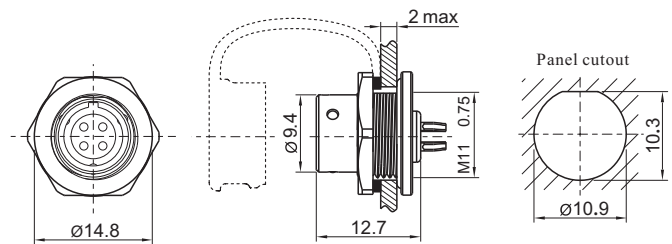
Rear-nut mount
Mate with SA810

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)	Ø1X2	Ø1X3	Ø0.6X4	Ø0.6X6	Ø0.6X8
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 ² /AWG)	≤0.75/18	≤0.75/18	≤0.5/20	≤0.5/20	≤0.5/20

SA10 Series

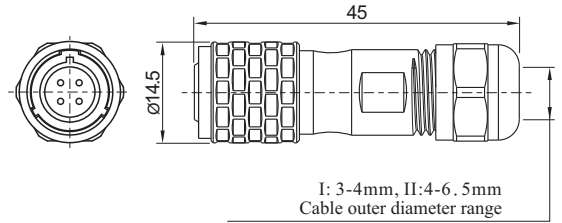


Cable connector
Mate with SA1011, SA1012, SA1015

SA1010 / P SA1010 / S

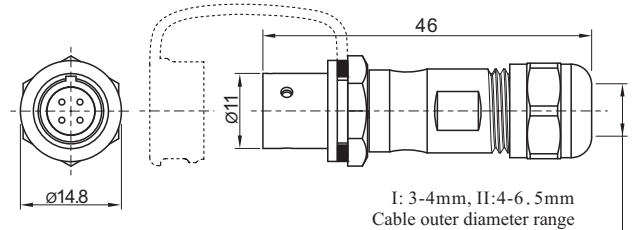
Male contact

- Colour:
- B: Black
- S: Silver
- L: Blue (special order)
- G: Green (special order)
- R: Red (special order)
- Cable outer diameter range
- I: 3-4mm, II: 4-6, 5mm
- Number of contact
- Female contact



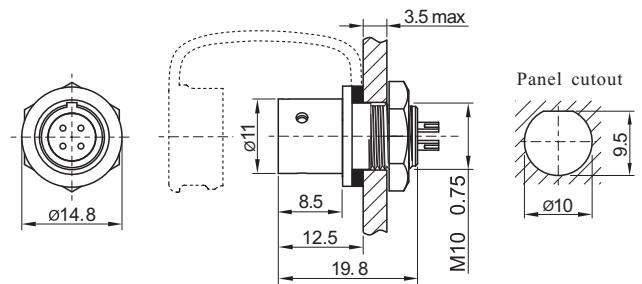
In-line cable connector
Mate with SA1010

SA1011 / P SA1011 / S



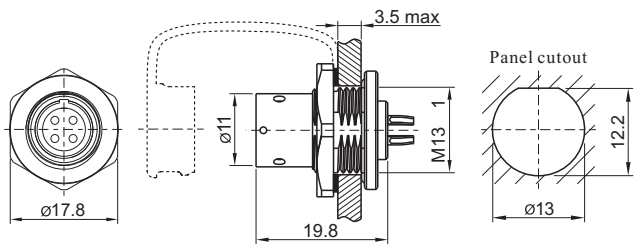
Rear-nut mount
Mate with SA1010

SA1012 / P SA1012 / S



Front-nut mount
Mate with SA1010

SA1015 / P SA1015 / 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)	Ø1X2	Ø1X3	Ø0.7X4	Ø0.7X5
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 ² /AWG)	≤0.75/18	≤0.75/18	≤0.5/20	≤0.5/20

SA12 Series

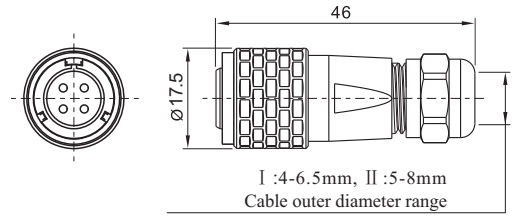
**SA
12**



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, II : 5-8mm

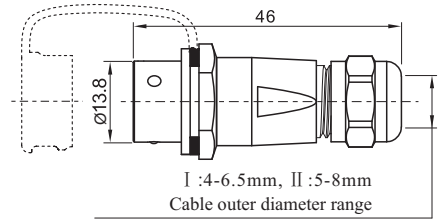
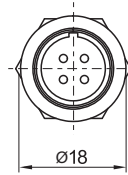


05



In-line cable connector
Mate with SA1210

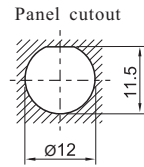
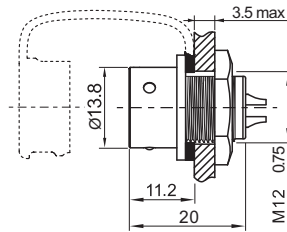
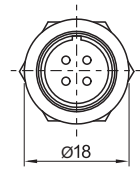
SA1211/P — SA1211/S



Rear-nut mount
Mate with SA1210

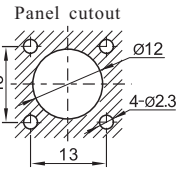
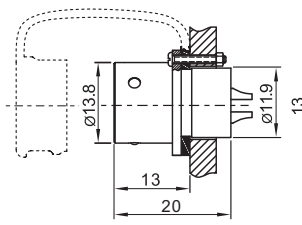
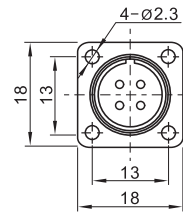
SA1212/P — SA1212/S
Number of contact

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



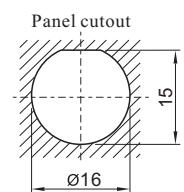
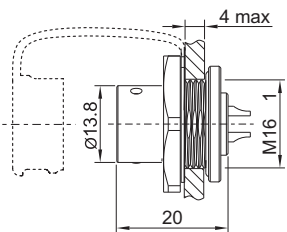
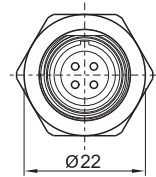
Square flange
Mate with SA1210

SA1213/P — SA1213/S



Front-nut mount
Mate with SA1210

SA1215/P — SA1215/S



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 ² /AWG)	≤1.5/16	≤1.5/16	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18	≤0.5/20

SA16 Series

**SA
16**

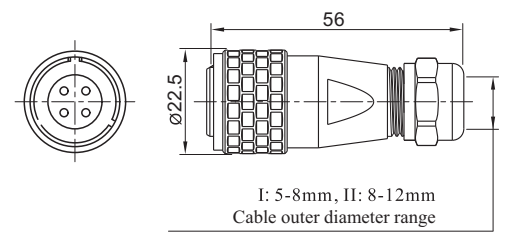


Cable connector
Mate with SA1611, SA1612,
SA1613, SA1615

SA1610/P --- SA1610/S

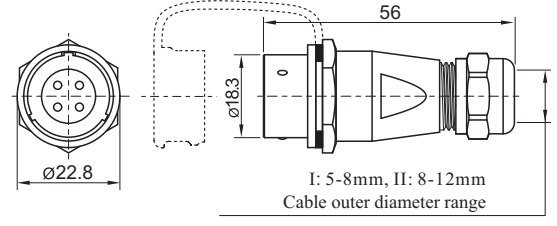
Male contact
Female contact
Number of contact
Cable outer diameter
I: 5-8mm(omit), II: 8-12mm

1: solder, 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

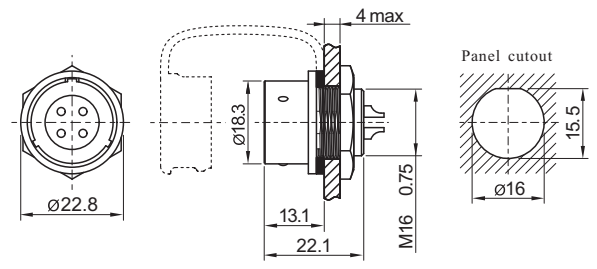


Rear-nut mount
Mate with SA1610

SA1612/P --- SA1612/S

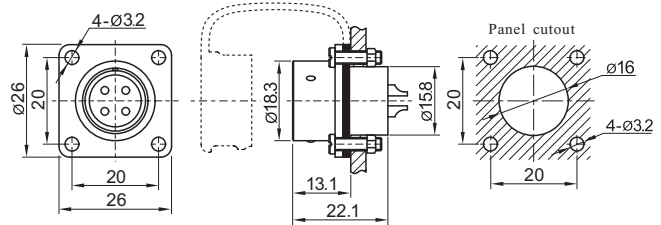
Number of contact
Colour

1: solder, 3: crimp



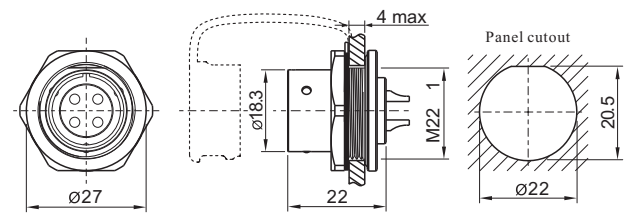
Square flange
Mate with SA1610

SA1613/P --- SA1613/S



Front-nut mount
Mate with SA1610

SA1615/P --- SA1615/S



Solder contact spec

★ Crimp contact spec see P22

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 ² /AWG)	≤1.5/16	≤1.5/16	≤0.75/18	≤1.5/16	≤1.5/16	≤1.5/16	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18

SA20 Series

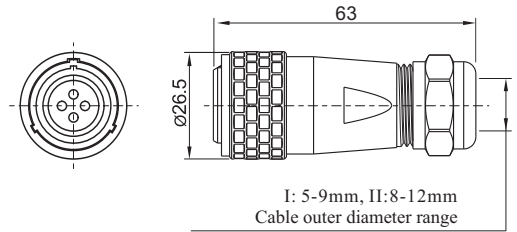
**SA
20**



Cable connector
Mate with SA2011, SA2012,
SA2013, SA2015

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

1: solder, 2: screw, 3: crimp
Colour:
B: Black
S: Silver
L: Blue (special order)
G: Green (special order)
R: Red (special order)
Cable outer diameter range
I: 5-9mm, II: 8-12mm

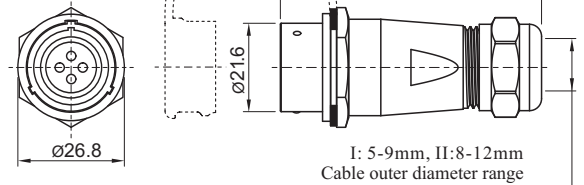


05



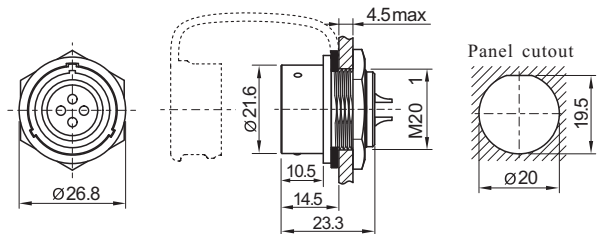
In-line cable connector
Mate with SF2010

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



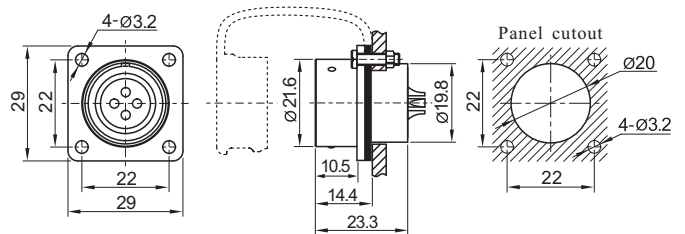
Rear-nut mount
Mate with SA2010

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



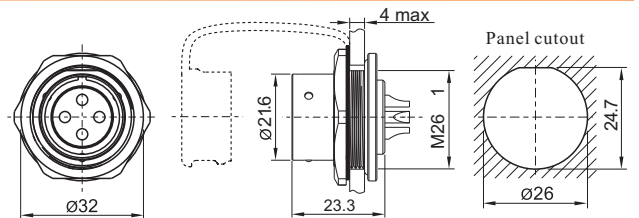
Square flange
Mate with SA2010

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



Front-nut mount
Mate with SA2010

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



Solder contact spec

★Crimp contact spec see P22 ★Screw contact spec see P23

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 ² / AWG)	≤4/12	≤4/12	≤4/12	≤1.5/16	≤4/12 ≤0.75/18	≤4/12 ≤0.75/18	≤1.5/16	≤1.5/16	≤0.75/18	≤0.75/18	≤0.75/18
Wire size for screw termination (mm ² / AWG)	Min:0.5/20 Max:1.5/15	Min:0.5/20 Max:1.5/15	Min:0.5/20 Max:1.5/15	/	/	/	/	/	/	/	/

SA24 Series

**SA
24**



Cable connector
Mate with SA2411, SA2412,
SA2413

SA2410/P

SA2410/S

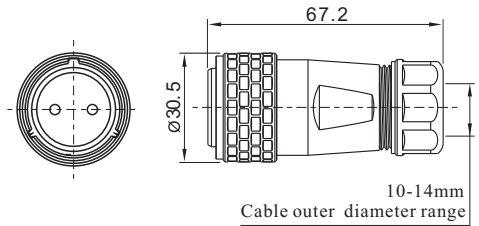
Male contact

Female contact

Number of contact

1: solder, 2: screw, 3: crimp

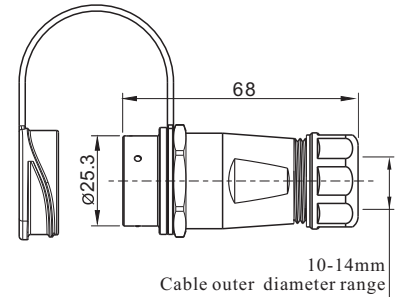
Colour:
B: Black
S: Silver
L: Blue (special order)
G: Green (special order)
R: Red (special order)



In-line cable connector
Mate with SA2410

SA2411/P

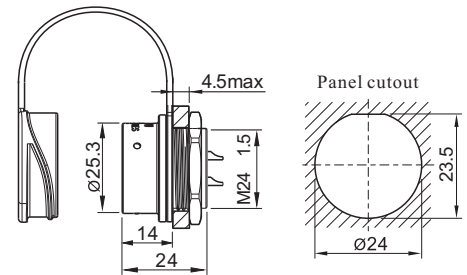
SA2411/S



Rear-nut mount
Mate with SA2410

SA2412/P

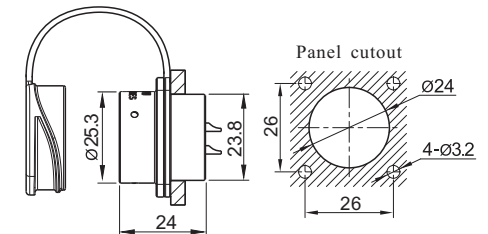
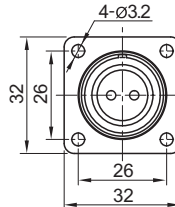
SA2412/S



Square flange
Mate with SA2410

SA2413/P

SA2413/S



Solder contact spec

★Crimp contact spec see P22

★Screw contact spec see P23

Number of contact	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)	Ø2.5X2	Ø2.5X3	Ø2.5X4	Ø1X5 Ø2.5X4	Ø1.5X10	Ø1.5X12	Ø1X9 Ø3X3	Ø1X19
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 ² /AWG)	≤4/12	≤4/12	≤4/12	≤0.75/18 ≤4/11	≤1.5/16	≤1.5/16	≤0.75/18 ≤4/11	≤0.75/18
Wire size for screw termination	Min:0.5/20 Max:1.5/15	Min:0.5/20 Max:1.5/15	Min:0.5/20 Max:1.5/15	/	/	/	/	/

SA28 Series

**SA
28**



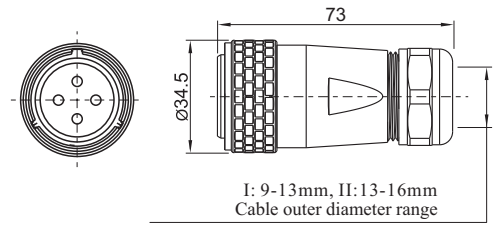
Cable connector
Mate with SA2811, SA2812,
SA2813, SA2815

SA2810/P — SA2810/S

Male contact
Female contact
Number of contact

I: solder, 2: screw, 3: crimp

Colour:
B: Black
S: Silver
L: Blue (special order)
G: Green (special order)
R: Red (special order)
Cable outer diameter range
I: 9-13mm, II: 13-16mm

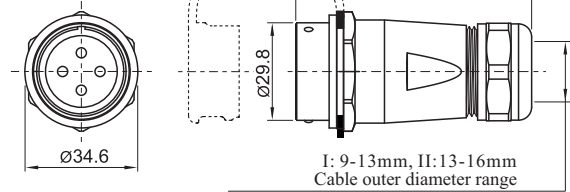


05



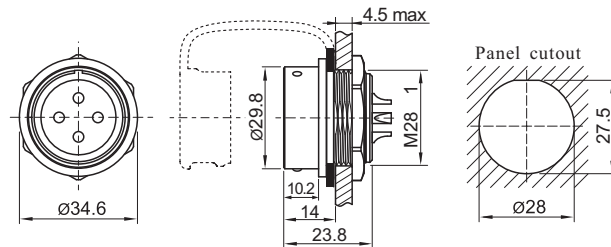
In-line cable connector
Mate with SA2810

SA2811/P — SA2811/S



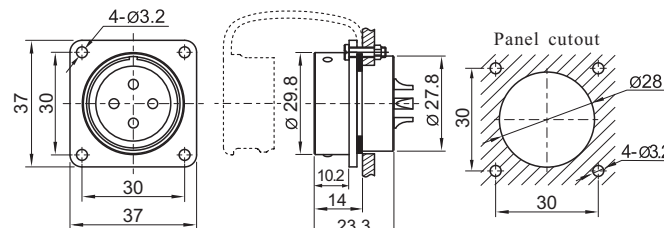
Rear-nut mount
Mate with SA2810

SA2812/P — SA2812/S



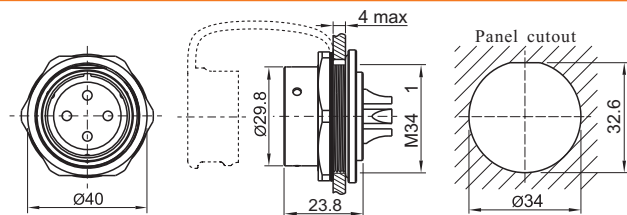
Square flange
Mate with SA2810

SA2813/P — SA2813/S



Front-nut mount
Mate with SA2810

SA2815/P — SA2815/S



Solder contact spec

★Crimp contact spec see P22 ★Screw contact spec see P23

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	0.5, 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 ² / AWG)	≤10 / 7	≤10 / 7	≤4 / 12	≤4 / 12	≤4 / 12	≤16 / 5 ≤0.75 / 18	≤4 / 12 ≤0.75 / 18	≤4 / 12	≤1.5 / 16	≤1.5 / 16	≤1.5 / 16	≤1.5 / 16	≤1.5 / 16	≤0.75 / 18	≤0.75 / 18	≤0.75 / 18	≤0.75 / 18
Wire size for screw termination	Min:0.5/20 Max:6/10	Min:0.5/20 Max:6/10	Min:0.5/20 Max:1.5/15	Min:0.5/20 Max:1.5/15	Min:0.5/20 Max:1.5/15	/	/	Min:0.5/20 Max:1.5/15	/	/	/	/	/	/	/	/	



SA24 Series

SA24
Signal&Data

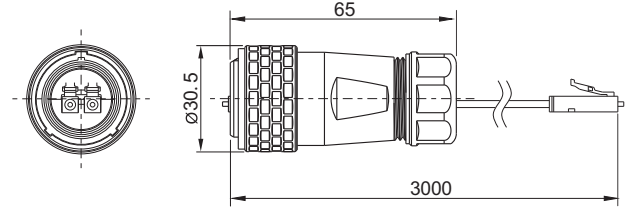


Plug with LC adapter
Mate with SA2411, SA2412, SA2413

SA2410/PLC-

Cable length:
1.0m
3.0m
5.0m

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

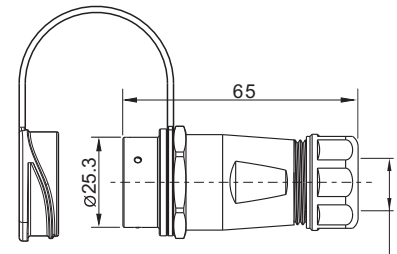
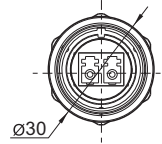


★ Cable length can be customized



Receptacle with LC adapter
Mate with SA2410

SA2411/SLC _

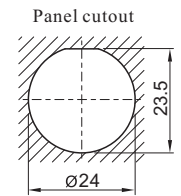
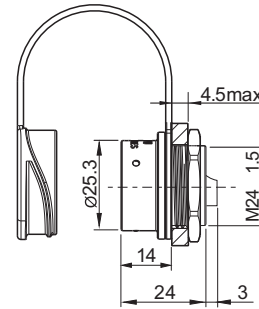
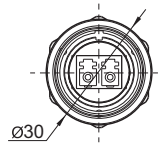


4-6mm
Cable outer diameter range



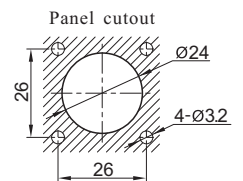
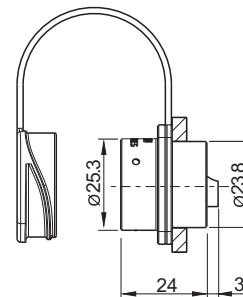
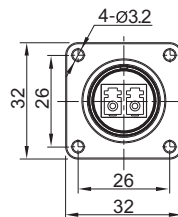
Rear-nut mount receptacle
with LC adapter
Mate with SA2410

SA2412/SLC _



Square flange receptacle
with LC adapter
Mate with SA2410

SA2413/SLC _





SA24 Series

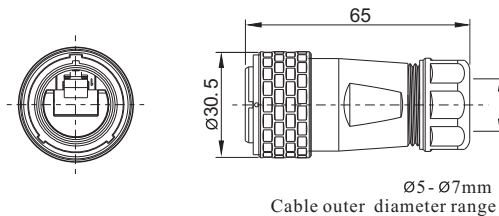
SA24
Signal&Data



RJ45 Plug
Mate with SA2411, SA2412, SA2413

SA2410/PRJ45

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



05

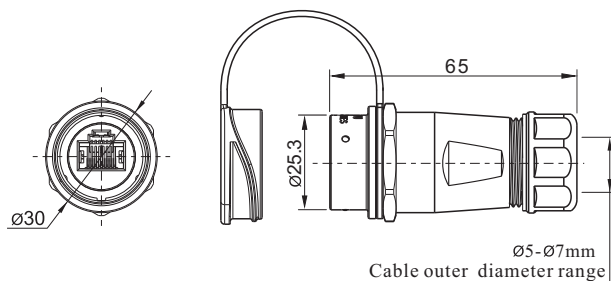


RJ45 Receptacle
Mate with SA2410

SA2411/SRJ45

Blank: CAT5
-C6: CAT6

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

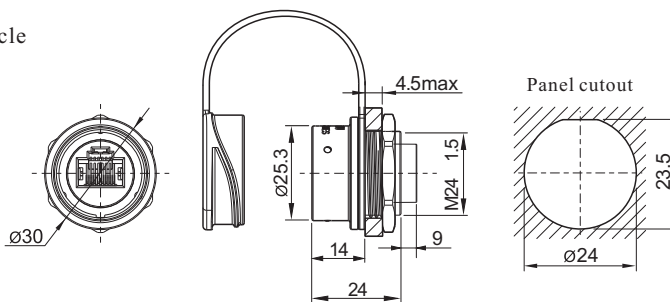


RJ45 Rear-nut mount receptacle
Mate with SA2410

SA2412/SRJ45

Blank: CAT5
-C6: CAT6

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

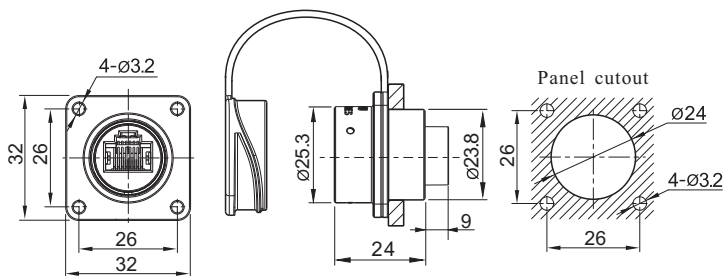


RJ45 Square flange receptacle
Mate with SA2410

SA2413/SRJ45

Blank: CAT5
-C6: CAT6

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





SA24 Series

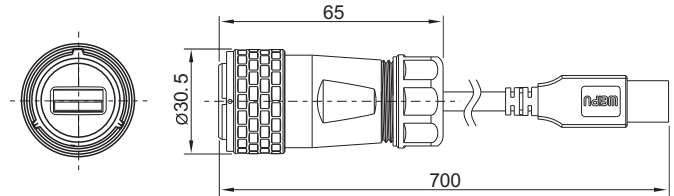


USB3.0 Plug
Mate with SA2411, SA2412, SA2413

SA2410/PUSB3.0

Cable length:
1.0m
3.0m
5.0m

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

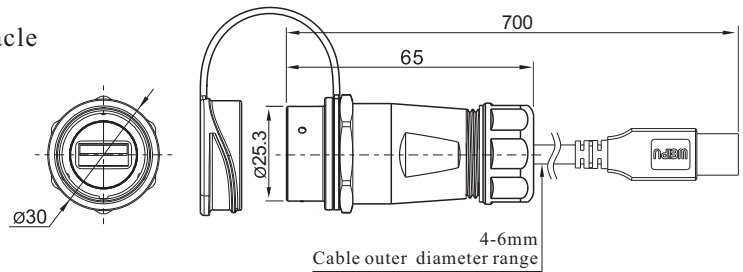


★ The cable length can be customized, but not more than 3 meters.



USB3.0 Receptacle
Mate with SA2410

SA2411/SUSB3.0

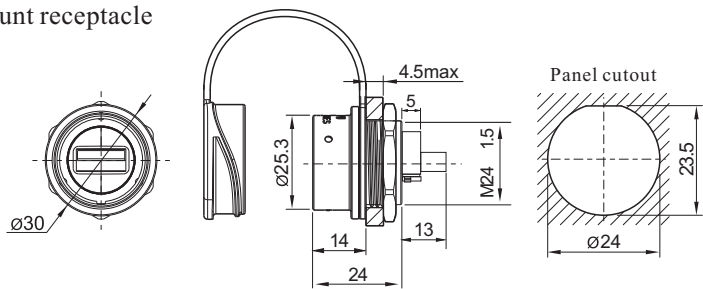


★ The cable length can be customized, but not more than 3 meters.



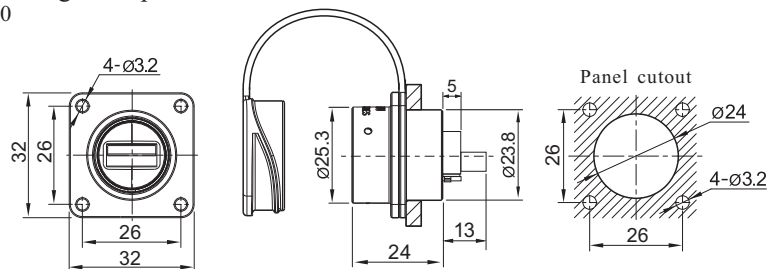
USB3.0 Rear-nut mount receptacle
Mate with SA2410

SA2412/SUSB3.0



USB3.0 Square flange receptacle
Mate with SA2410

SA2413/SUSB3.0



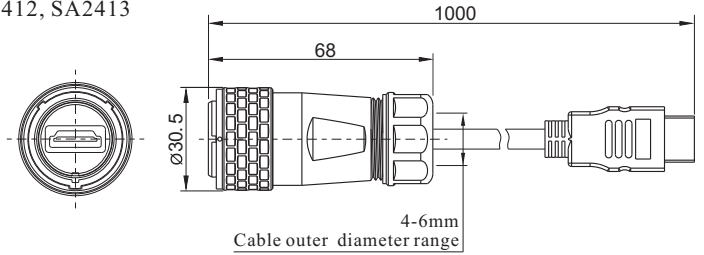
SA24 Series



SA24
Signal&Data



HDMI2.0 Plug
Mate with SA2411, SA2412, SA2413



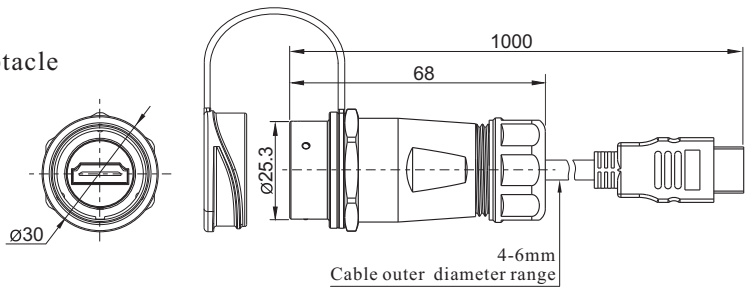
SA2410/PHDMI2.0-

- Cable length:
1.0m
3.0m
5.0m
- Colour:
B: Black
S: Silver
L: Blue (special order)
G: Green (special order)
R: Red (special order)

★ The cable length can be customized, but not more than 5 meters.



HDMI2.0 Receptacle
Mate with SA2410

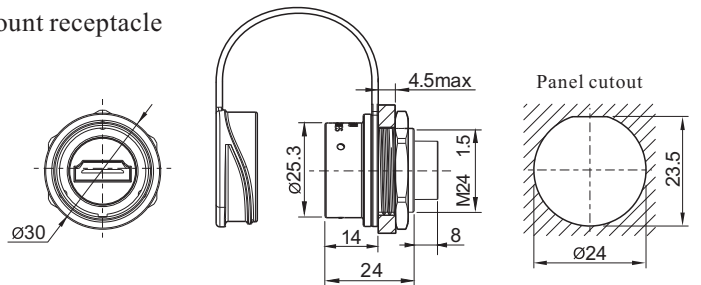


SA2411/SHDMI2.0-

★ The cable length can be customized, but not more than 5 meters.



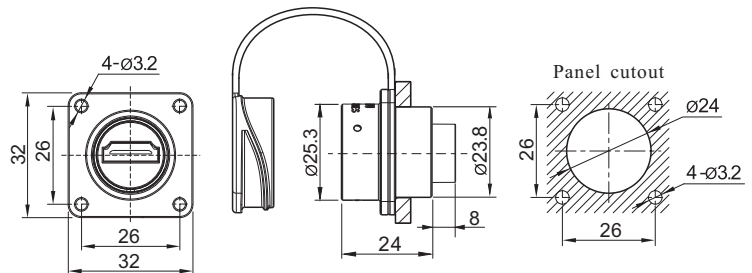
HDMI2.0 Rear-nut mount receptacle
Mate with SA2410



SA2412/SHDMI2.0-



HDMI2.0 Square flange receptacle
Mate with SA2410



SA2413/SHDMI2.0-

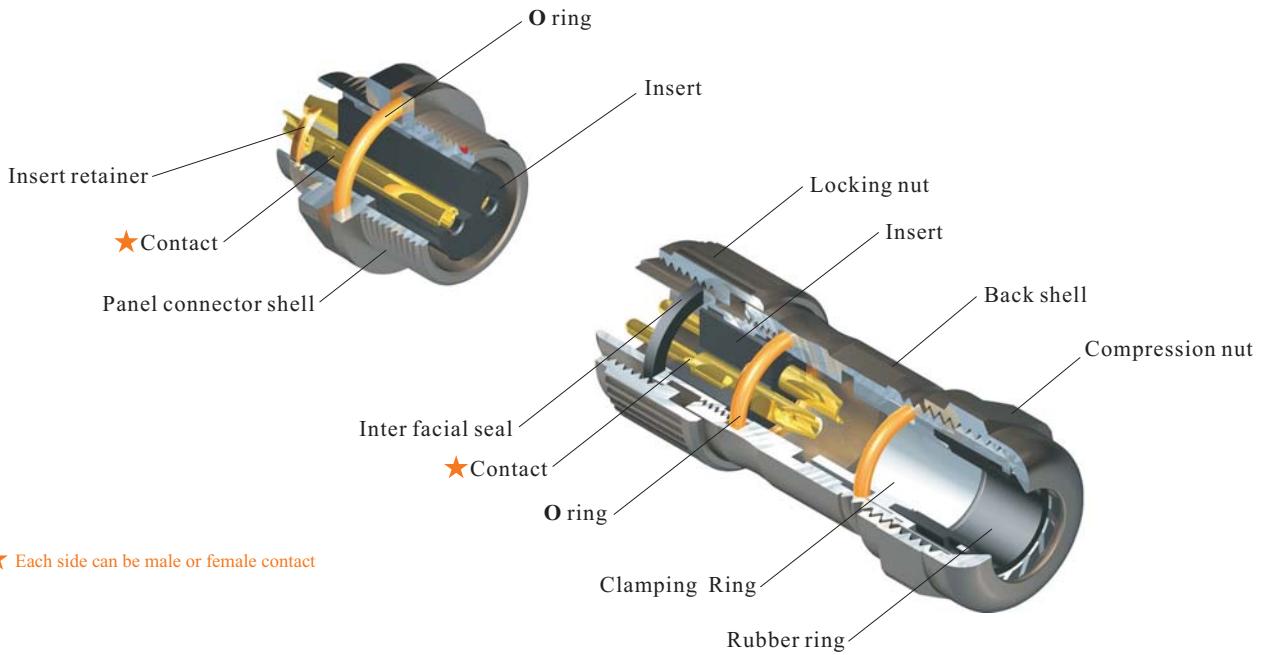


IP67



06

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

ST12 Series



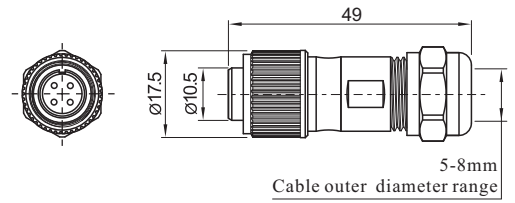
Cable connector
Mate with ST1211, ST1212, ST1213, ST1214

ST1210 / P_

ST1210 / S_

Male contact

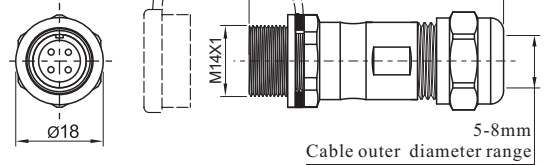
Number of contact
Female contact



ST1211 / P_

ST1211 / S_

In-line cable connector
Mate with ST1210

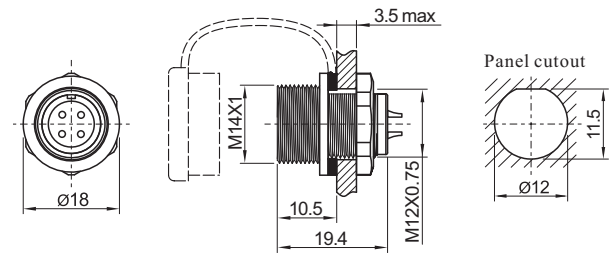


ST1212 / P_

ST1212 / S_

Rear-nut mount
Mate with ST1210

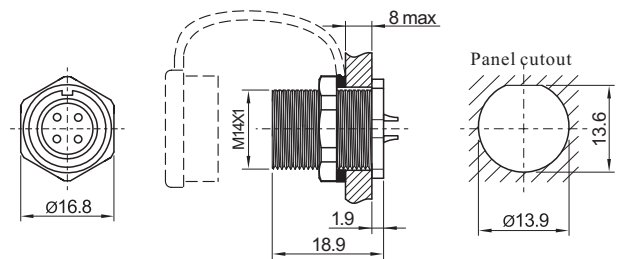
Number of contact



ST1213 / P_

ST1213 / S_

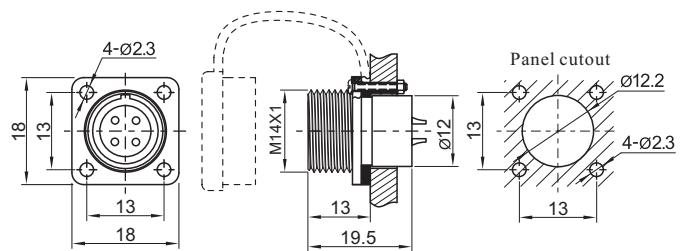
Front-nut mount
Mate with ST1210



ST1214 / P_

ST1214 / S_

Square flange
Mate with ST1210

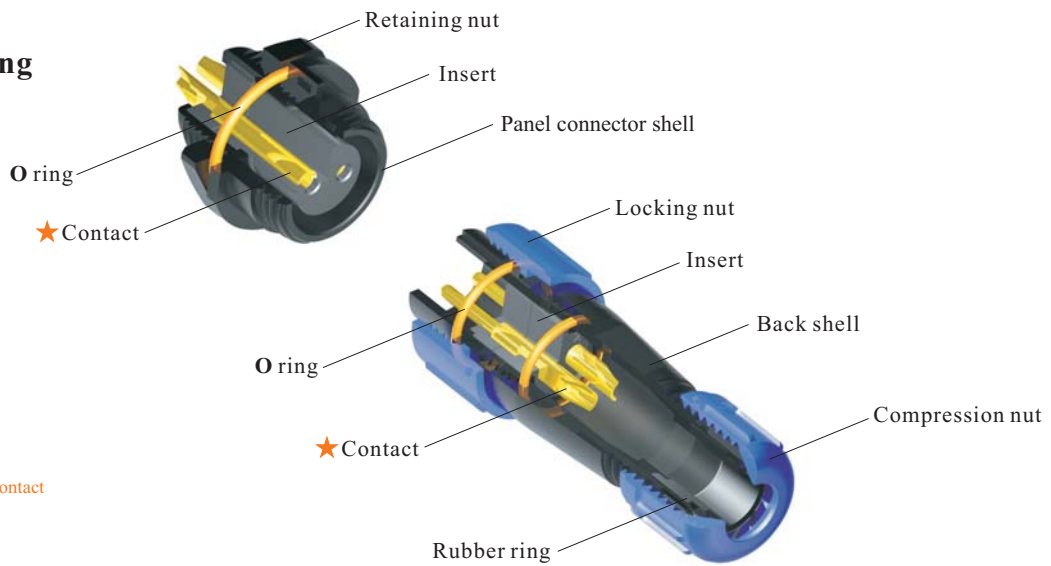


Solder contact spec

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 ² / AWG)	≤1.5/16	≤1.5/16	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18	≤0.5/20



- SP Series IP68
- Threaded coupling



★ Each side can be male or female contact

Material and spec

Coupling	Threaded
Shell material	PC, PA66, fire resistance: V-0
Insert material	PPS, max temperature 260 °C PA66, max temperature -30°C ~ +125°C (Only for horizontal mount screw of SP17/SP21Series)
Contact material	Brass with gold plating
Termination	Solder: SP 11, SP13, SP17, SP21, SP25, SP29 Crimp: SP17, SP21, SP25, SP29 Screw: SP17, SP21, SP25, SP29 (Ø2, Ø2.5, Ø3, Ø3.5mm contact)
Cable outer diameter range	SP11: I: 3-4mm, II: 4-6.5mm SP17: I: 6-10mm SP25: I: 10-14mm, II: 7-12mm SP13: I: 4-6.5mm, II: 5-8mm SP21: I: 4.5-7mm, II: 7-12mm, III: 5-9mm SP29: I: 9-13mm, II: 13-16mm
IP rating	IP68 (mated)
Mating cycle	500
Temperature range	-40°C ~ +85°C
Insulation resistance	2000 MΩ

SP11 Series



Cable connector
Mate with SP1111,
SP1111C, SP1112

SP1110/P

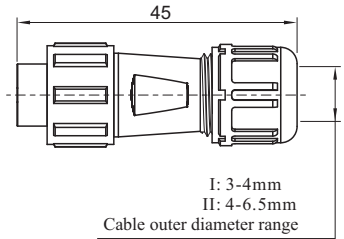
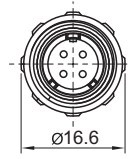
SP1110/S

Male contact

Cable outer diameter range
I: 3-4mm II: 4-6.5mm

Number of contact

Female contact



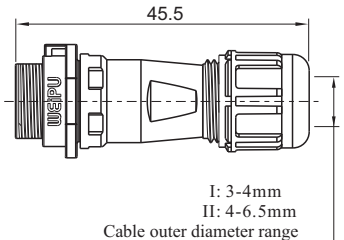
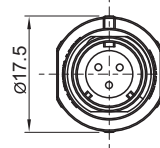
I: 3-4mm
II: 4-6.5mm
Cable outer diameter range



In-line cable connector C
Mate with SP1110

SP1111C/P

SP1111C/S



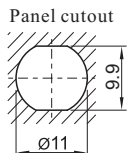
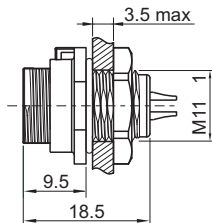
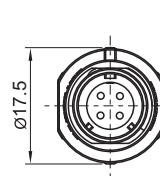
I: 3-4mm
II: 4-6.5mm
Cable outer diameter range



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)	Ø1X2	Ø1X3	Ø0.7X4	Ø0.7X5
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 ² /AWG)	≤0.75/18	≤0.75/18	≤0.5/20	≤0.5/20

SP11 Series



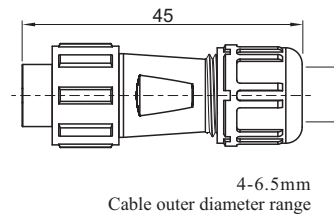
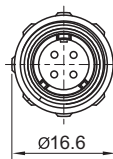
Cable connector
Mate with SP1111, SP1112

SP1110/P__

SP1110/S__

Male contact

(CU):
Colour: All black
Number of contact
Female contact



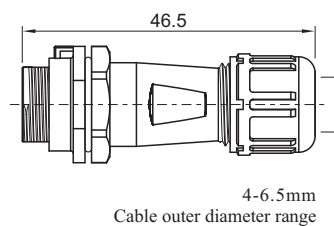
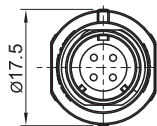
07



In-line cable connector
Mate with SP1110

SP1111/P__

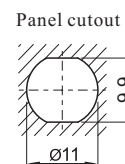
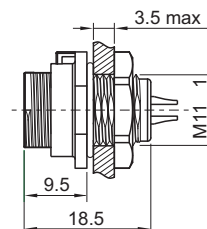
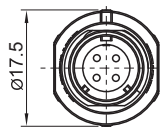
SP1111/S__



Rear-nut mount
Mate with SP1110

SP1112/P__

SP1112/S__



Solder contact spec

Number of contact	4	5
Male contact face view		
Rated current (A)	3	3
Contact diameter(mm)	Ø0.7X4	Ø0.7X5
Rated voltage (AC.V)	125	125
Test voltage(AC.V) 1 min	1000	1000
Contact resistance(mΩ)	10	10
Wire size(AWG)	20	20

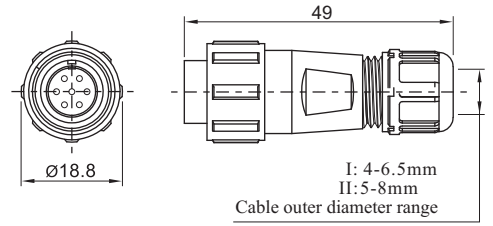
SP13 Series



Cable connector
Mate with SP1311,
SP1311C, SP1312

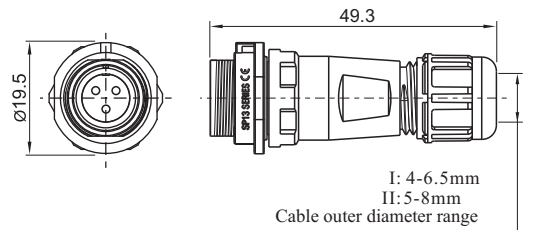
SP1310 / P___ Male contact
SP1310 / S___ Female contact

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



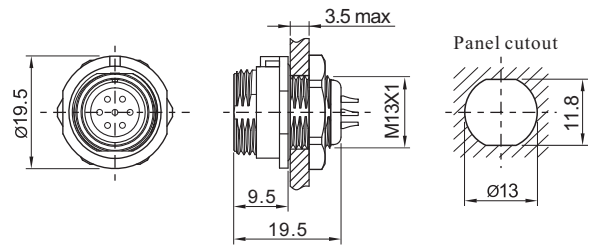
In-line cable connector C
Mate with SP1310

SP1311C / P___ SP1311 C / S___



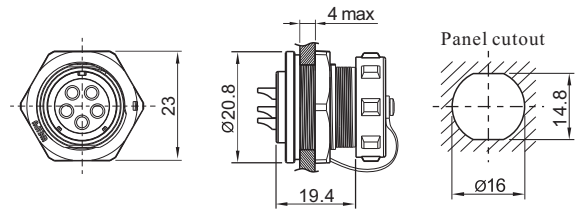
Rear-nut mount
Mate with SP1310

SP1312 / P___ SP1312 / S___
Number of contact



Front-nut mount
Mate with SP1310

SP1315 / P___ SP1315 / S___



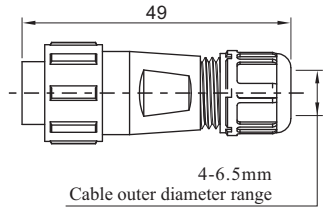
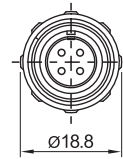
Solder contact spec

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 ² / AWG)	≤1.5/16	≤1.5/16	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18	≤0.5/20

SP13 Series



Cable connector
Mate with SP1311, SP1312

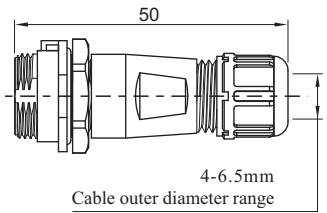
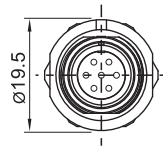


SP1310 / P — — Male contact
 SP1310 / S — — Female contact

(CU):
 Colour: All black
 Number of contact
 Female contact



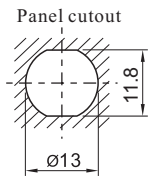
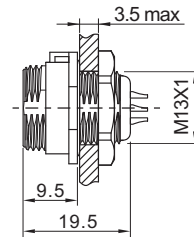
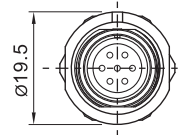
In-line cable connector
Mate with SP1310



SP1311 / P — — Male contact
 SP1311 / S — — Female contact



Rear-nut mount
Mate with SP1310



SP1312 / P — — Male contact
 SP1312 / S — — Female contact

(CU):
 Number of contact

Solder contact spec

Number of contact	4	5	6	7	9
Male contact face view					
Rated current (A)	5	5	5	5	3
Contact diameter (mm)	Ø1X4	Ø1X5	Ø1X6	Ø1X7	Ø0.7X9
Rated voltage (AC.V)	300	300	300	300	125
Test voltage(AC.V) 1 min	1500	1000	1000	1000	1000
Contact resistance (mΩ)	5	5	5	5	10
Wire size (AWG)	20	20	20	20	20



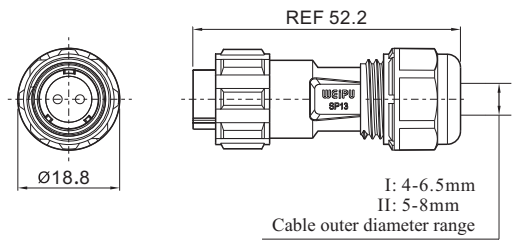
SP13 Series



Plug with horizontal mount screw
Mate with SP1311, SP1312

SP1310 / P-9

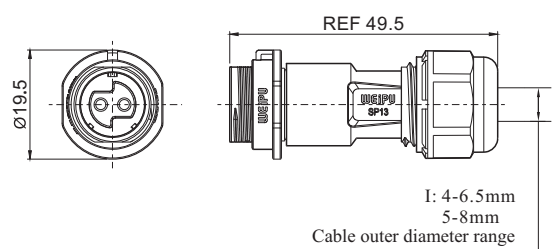
└─ Number of contact
└─ Male contact



Connector with horizontal mount screw
Mate with SP1310

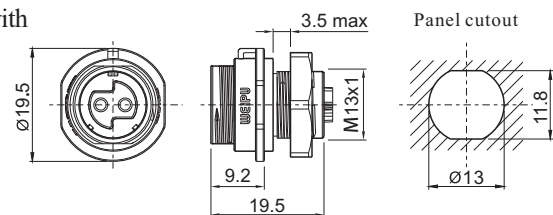
SP1311 / S-9

└─ Female contact



Rear-nut mount receptacle with horizontal mount screw
Mate with SP1310

SP1312 / S-9



Note: 2, 3Pin Hexagonal tool specifications: H1.3
4Pin Hexagonal tool specifications: H0.9

Solder contact spec

Number of contact	2	3	4
Male contact face view			
Rated current (A)	13	13	5
Contact diameter(mm)	Ø1.6X2	Ø1.6X3	Ø1X4
Rated voltage (AC.V)	250	250	200
Test voltage(AC.V) 1 min	1500	1500	1500
Contact resistance (mΩ)	2.5	2.5	5
Wire size(mm ² /AWG)	Min: 0.75/18 Max: 1.5/16	Min: 0.75/18 Max: 1.5/16	Min: 0.4/21 Max: 0.75/18

SP17 Series



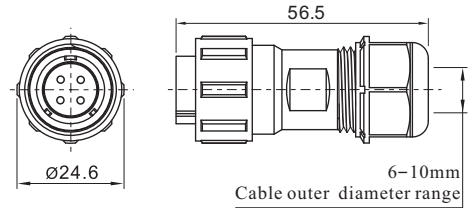
Cable connector
Mate with SP1711, SP1711C,
SP1712

SP1710/P--

SP1710/S--

Male contact

1: solder, 3: crimp
Number of contact
Female contact

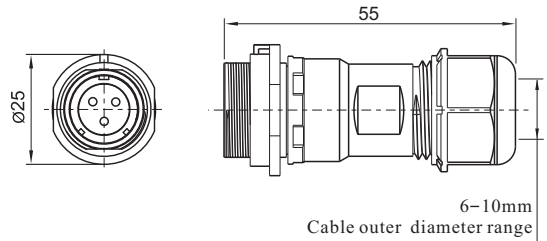


SP1711C/P--

SP1711C/S--



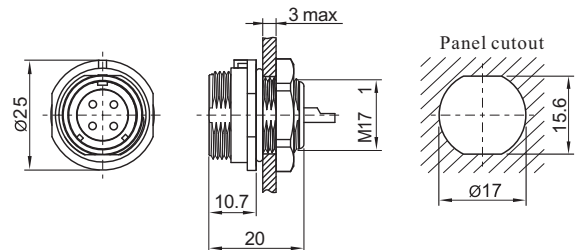
In-line cable connector C
Mate with SP1710



Rear-nut mount
Mate with SP1710

SP1712/P--

SP1712/S--



Solder contact spec

★Crimp contact spec see P22

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 ² /AWG)	≤1.5/16	≤1.5/16	≤0.75/18	≤1.5/16	≤1.5/16	≤1.5/16	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18

NEW

**SP
17**

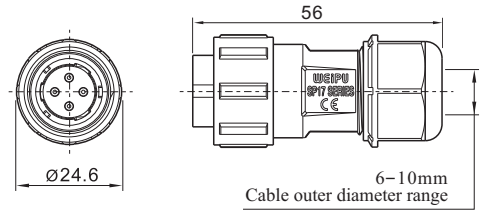
SP17 Series



Plug with horizontal mount screw
Mate with SP1711, SP1712

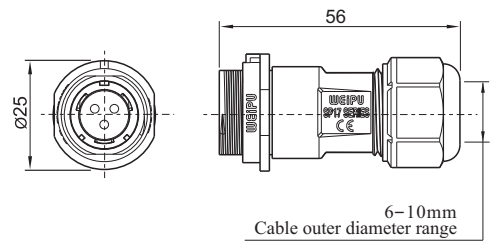
SP1710 / P__-9 SP1710 / S__-9

插针 Male contact Number of contact
Female contact



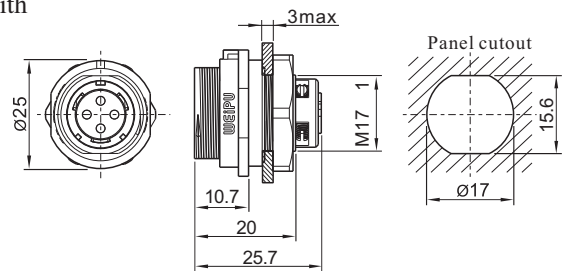
Connector with horizontal mount screw
Mate with SP1710

SP1711 / P__-9 SP1711 / S__-9



Rear-nut mount receptacle with horizontal mount screw
Mate with SP1710

SP1712 / P__-9 SP1712 / S__-9



Solder contact spec

Number of contact	2B	3B	4B
Male contact face view			
Rated current (A)	15	15	15
Contact diameter(mm)	Ø2X2	Ø2X3	Ø2X4
Rated voltage (AC.V)	500	500	500
Test voltage(AC.V) 1 min	1500	1500	1500
Contact resistance (mΩ)	2.5	2.5	2.5
Wire size (mm ² /AWG)	Min:0.75/18 Max:2/14	Min:0.75/18 Max:2/14	Min:0.75/18 Max:2/14

SP21 Series

**SP
21**



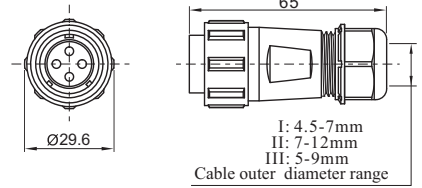
Cable connector
Mate with SP2111, SP2111C, SP2112, SP2113

SP2110 / P

SP2110 / S

Male contact
Female contact

1: solder, 2: screw, 3: crimp
Cable outer diameter range
I: 4.5-7mm, II: 7-12mm, III: 5-9mm
Number of contact



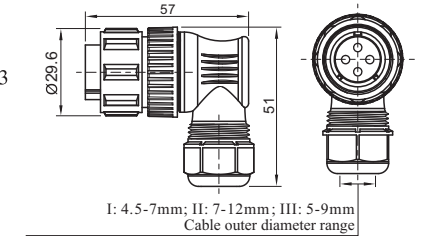
Angled cable connector
Mate with SP2111, SP2111C, SP2112, SP2113

SP2116 / P

SP2116 / S

Number of contact

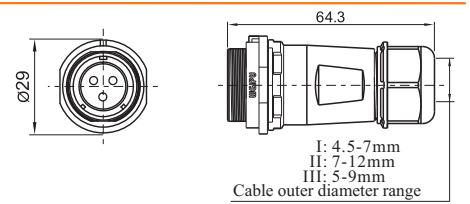
1: solder, 2: screw, 3: crimp
Cable outer diameter range
I: 4.5-7mm, II: 7-12mm, III: 5-9mm



In-line cable connector C
Mate with SP2110, SP2116

SP2111C / P

SP2111C / S



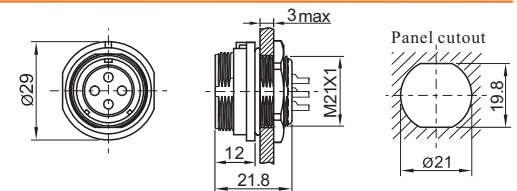
Rear-nut mount
Mate with SP2110, SP2116

SP2112 / P

SP2112 / S

Number of contact

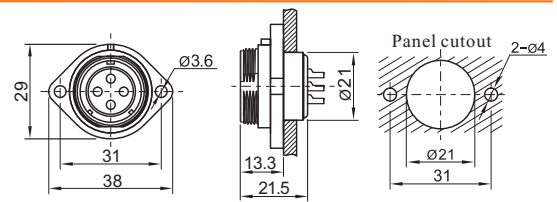
1: solder, 2: screw, 3: crimp



2-hole flange
Mate with SP2110, SP2116

SP2113 / P

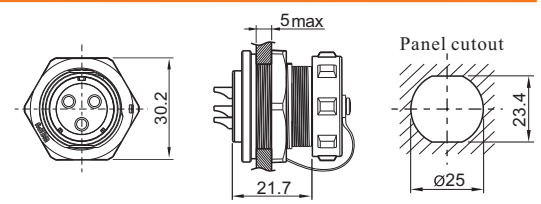
SP2113 / S



Front-nut mount
Mate with SP2110, SP2116

SP2115 / P

SP2115 / S



Solder contact spec

★Crimp contact spec see P22

★Screw contact spec see P23

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	Ø1.5X8	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 ² / AWG)	≤4/12	≤4/12	≤4/12	≤4/12	≤4/12 ≤0.75/18	≤1.5/16	≤4/12 ≤0.75/18	≤4/12 ≤0.75/18	≤1.5/16	≤1.5/16	≤0.75/18	≤0.75/18	≤0.75/18
Wire size for screw termination (mm ² /AWG)	Min:0.5/20 Max1.5/15	Min:0.5/20 Max1.5/15	Min:0.5/20 Max1.5/15	Min:0.5/20 Max1.5/15	/	/	/	/	/	/	/	/	/

SP21 Series



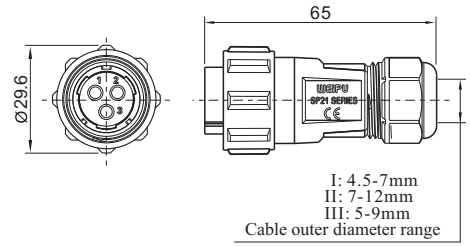
**SP
21**



Plug with horizontal mount screw
Mate with SP2111, SP2112

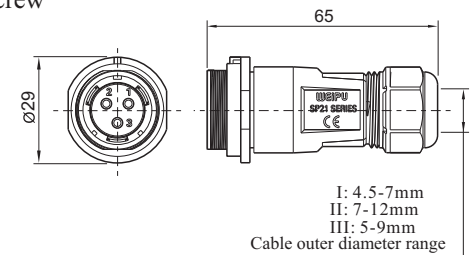
SP2110 / P__-9 SP2110 / S__-9

Male contact
Female contact
Cable outer diameter range
I: 4.5-7mm, II: 7-12mm, III: 5-9mm
Number of contact



Connector with horizontal mount screw
Mate with SP2110

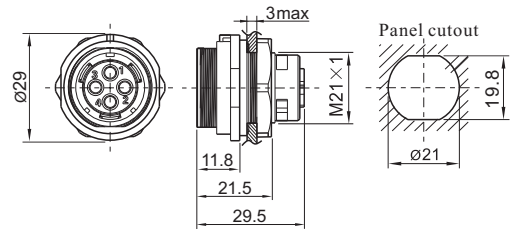
SP2111 / P__-9 SP2111 / S__-9



Rear-nut mount receptacle with horizontal mount screw
Mate with SP2110

SP2112 / P__-9 SP2112 / S__-9

Number of contact



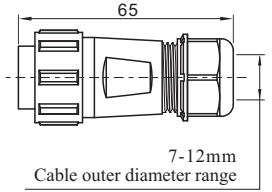
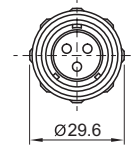
Solder contact spec

Number of contact	2	3	4	5
Male contact face view				
Rated current (A)	30	30	30	30
Contact diameter (mm)	ø3X2	ø3X3	ø3X4	ø3X5
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 for screw termination (mm ² /AWG)	Min:0.75/18 Max: 4/12	Min:0.75/18 Max: 4/12	Min:0.75/18 Max: 4/12	Min:0.75/18 Max: 4/12

SP21 Series



Cable connector
Mate with SP2111, SP2112, SP2113

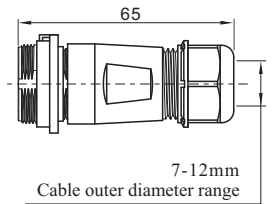
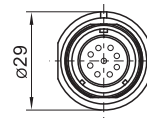


SP2110 / P ___ Male contact
SP2110 / S ___ Female contact

(U): , (CU):
Colour: All black
Number of contact



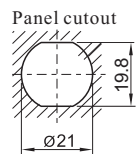
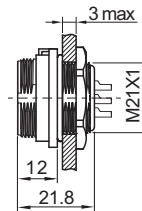
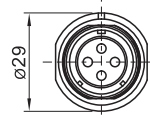
In-line cable connector
Mate with SP2110



SP2111 / P ___ Male contact
SP2111 / S ___ Female contact



Rear-nut mount
Mate with SP2110

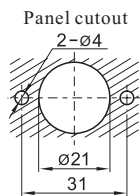
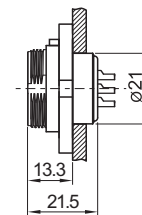
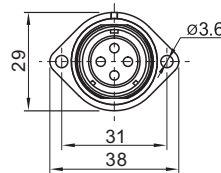


SP2112 / P ___ Male contact
SP2112 / S ___ Female contact

(U): , (CU):
Number of contact



2-hole flange
Mate with SP2110



SP2113 / P ___ Male contact
SP2113 / S ___ Female contact

Solder contact spec

Number of contact	2	3	4	5
Male contact face view				
Rated current (A)	30 20	30 20	30 20	30 20
Contact diameter (mm)	Ø3X2	Ø3X3	Ø3X4	Ø3X5
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
Termination	solder	solder	solder	solder
Wire size for solder (AWG)	12	12	12	12

SP25 Series



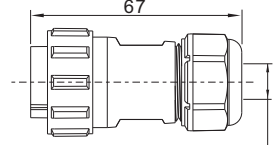
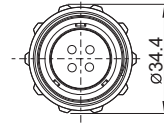
**SP
25**



Cable connector
Mate with SP2511, SP2511C, SP2512, SP2513

SP2510 / P --- SP2510 / S ---
Male contact

I: solder, 2: screw, 3: crimp
Cable outer diameter range
I: 10-14mm, II: 7-12mm
Number of contact
Female contact

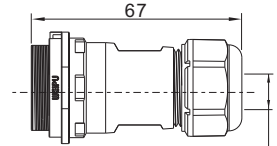
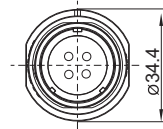


I: 10-14mm
II: 7-12mm
Cable outer diameter range



SP2511C / P --- SP2511C / S ---

In-line cable connector C
Mate with SP2510



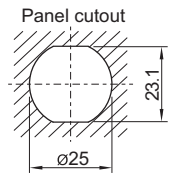
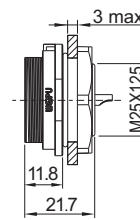
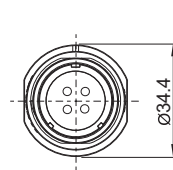
I: 10-14mm
II: 7-12mm
Cable outer diameter range



SP2512 / P --- SP2512 / S ---

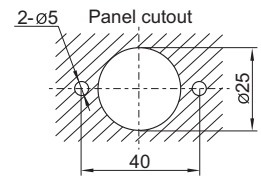
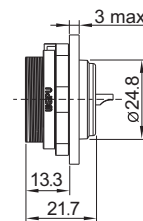
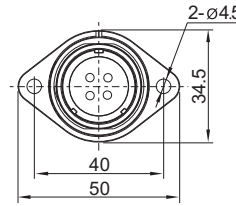
Rear-nut mount
Mate with SP2510

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



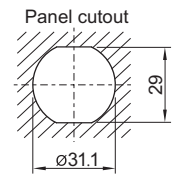
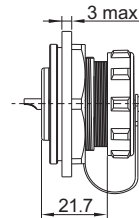
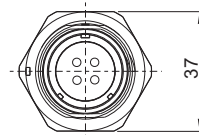
SP2513 / P --- SP2513 / S ---

2-hole flange
Mate with SP2510



SP2515 / P --- SP2515 / S ---

Front-nut mount
Mate with SP2510



Solder contact spec

★Crimp contact spec see P22

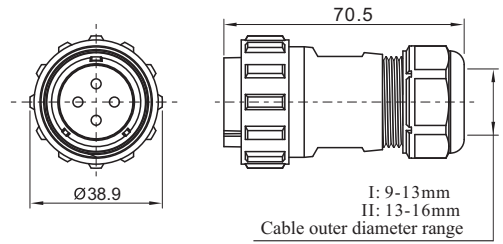
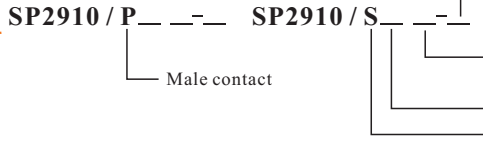
★Screw contact spec see P23

Number of contact	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)	ø2.5X2	ø2.5X3	ø2.5X4	ø1X5 ø2.5X4	ø1.5X10	ø1.5X12	ø1X9 ø3X3	ø1X19
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
Termination	solder / screw	solder / screw	solder / screw	/	/	/	/	/
Wire size (mm ² /AWG)	≤4/12	≤4/12	≤4/12	≤0.75/18 ≤4/12	≤1.5/16	≤1.5/16	≤0.75/18 ≤4/12	≤0.75/18
Wire size for screw termination	Min:0.5/20 Max1.5/15	Min:0.5/20 Max1.5/15	Min:0.5/20 Max1.5/15	/	/	/	/	/

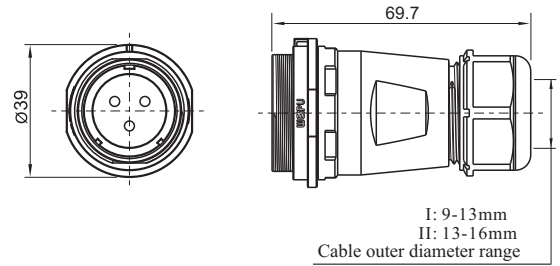
SP29 Series



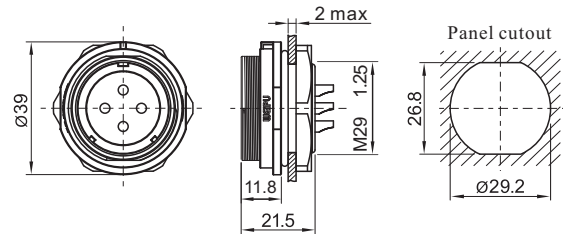
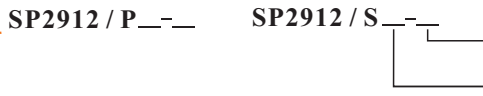
Cable connector
Mate with SP2911, SP2911C, SP2912, SP2913



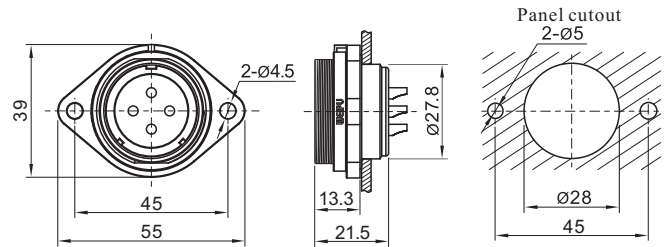
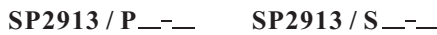
In-line cable connector C
Mate with SP2910



Rear-nut mount
Mate with SP2910



2-hole flange
Mate with SP2910



Solder contact spec

★Crimp contact spec see P22

★Screw contact spec see P23

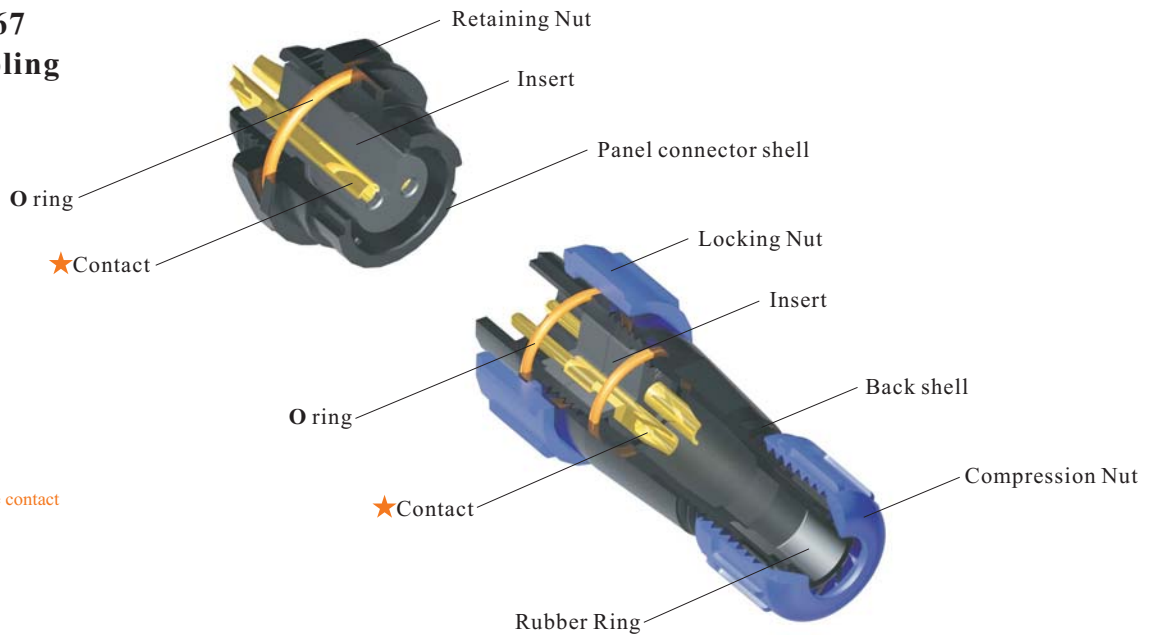
Number of contact	2	3	4	7	8	8B	9	10	10B	12	16	17	20	24	26	35
Male contact face view																
Rated current (A)	50	50	25	25	25	60.5	25.5	25	10	10	10	10	5	5	5	5
Contact diameter(mm)	Ø3.5X2	Ø3.5X3	Ø2.5X4	Ø2.5X7	Ø2.5X8	Ø5X2 Ø1X6	Ø2.5X4 Ø1X5	Ø2.5X10	Ø1.5X10	Ø1.5X12	Ø1.5X16	Ø1.5X17	Ø1X20	Ø1X24	Ø1X26	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	0.5.5	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 ² /AWG)	≤10/7	≤10/7	≤4/12	≤4/12	≤4/12	≤16/5 ≤0.75/18	≤4/12 ≤0.75/18	≤4/12	≤1.5/16	≤1.5/16	≤1.5/16	≤1.5/16	≤1.5/16	≤0.75/18	≤0.75/18	≤0.75/18
(mm ² /AWG) Wire size for screw termination	Min:0.5/20 Max:6/10	Min:0.5/20 Max:6/10	Min:0.5/20 Max:1.5/15	Min:0.5/20 Max:1.5/15	Min:0.5/20 Max:1.5/15	/	/	Min:0.5/20 Max:1.5/15	/	/	/	/	/	/	/	/

IP67



08

- SY Series IP67
- Bayonet coupling



★ Each side can be male or female contact

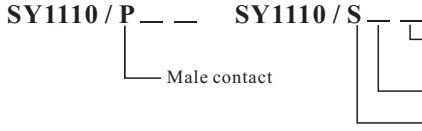
Material and spec

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: SY11, SY13, SY17, SY21, SY25, SY29 Crimp: SY17, SY21, SY25, SY29 Screw: SY21, SY25, SY29 (Ø2.5, Ø3, Ø3.5mm contact)	
Cable outer diameter range	SY11: I:3-4mm, II: 4-6.5mm SY17: 6-10mm SY25: I:10-14mm, II: 7-12mm	SY13: I: 4-6.5mm , II: 5-8mm SY21: I:4.5-7mm, II:7-12mm, III: 5-9mm SY29:I:9-13 mm, II:13-16mm
IP rating	IP67 (mated)	
Mating cycle	500	
Temperature range	-40°C~+85°C; Signal, Data: -20°C ~+70°C	
Insulation resistance	2000 MΩ	
Transmission Speed	Cat 5: 100Mbps, cat 6: 100-1000Mbps	

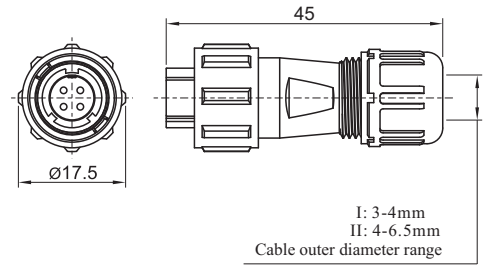
SY11 Series



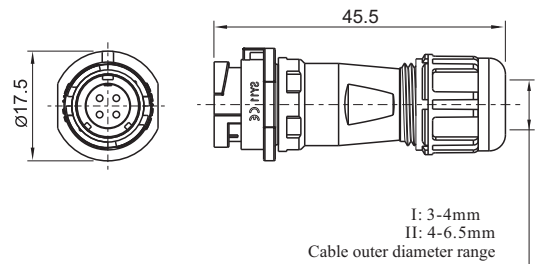
Cable connector
Mate with SY1111,
SY1111C, SY1112



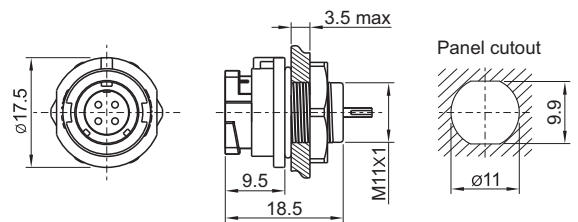
Cable outer diameter range
I: 3-4mm, II: 4-6.5mm
Number of contact
Female contact



In-line cable connector C
Mate with SY1110



Rear-nut mount
Mate with SY1110



Solder contact spec

Number of contact	2	3	4	5
Male contact face view				
Rated current (A)	5	5	3	3
Contact diameter(mm)	Ø1X2	Ø1X3	Ø0.7X4	Ø0.7X5
Rated voltage (AC.V)	180	180	125	125
Test voltage(AC.V) 1 min	1000	1000	1000	1000
Contact resistance(m.Ω)	5	5	10	10
Wire size (mm ² /AWG)	≤0.75/18	≤0.75/18	≤0.5/20	≤0.5/20

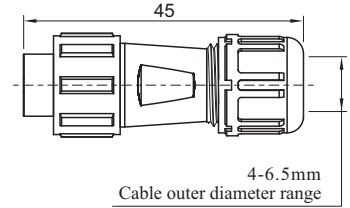
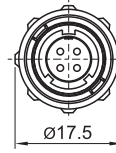
SY11 Series



Cable connector
Mate with SY1111, SY1112

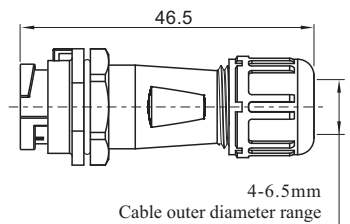
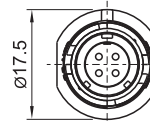
SY1110/P — **SY1110/S**
Male contact

(CU): **US**
Colour: All black
Number of contact
Female contact



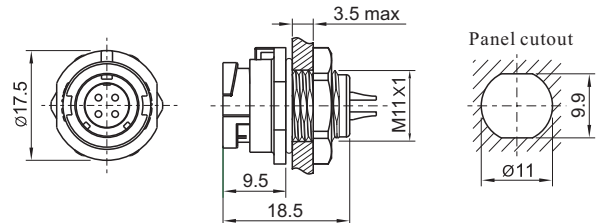
In-line cable connector
Mate with SY1110

SY1111/P — **SY1111/S**



Rear-nut mount
Mate with SY1110

SY1112/P — **SY1112/S**



Solder contact spec

Number of contact	4	5
Male contact face view		
Rated current (A)	3	3
Contact diameter(mm)	0.7X4	0.7X5
Rated voltage (AC.V)	125	125
Test voltage(AC.V) 1 min	1000	1000
Contact resistance(mΩ)	10	10
Wire size (AWG)	20	20

SY13 Series

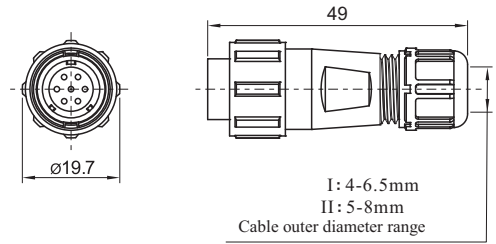


Cable connector
Mate with SY1311,
SY1311C, SY1312

SY1310 / P — **SY1310 / S**

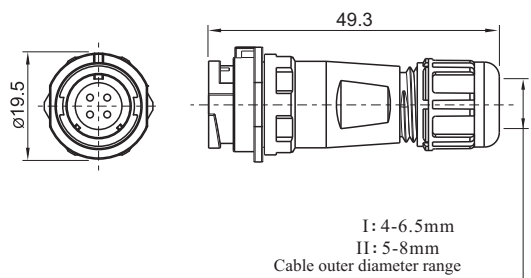
Male contact

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



In-line cable connector C
Mate with SY1310

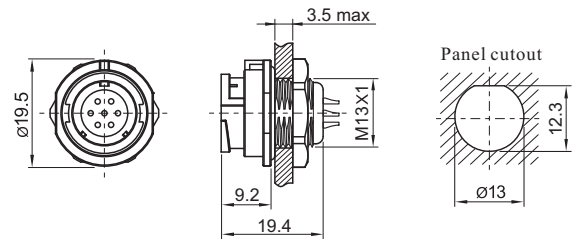
SY1311C / P — **SY1311C / S**



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 ² / AWG)	≤1.5/16	≤1.5/16	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18	≤0.5/20

SY13 Series



Cable connector
Mate with SY1311, SY1312

SY1310 / P

SY1310 / S

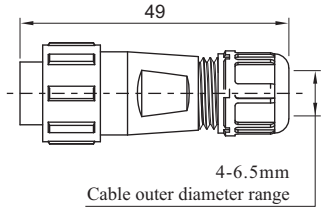
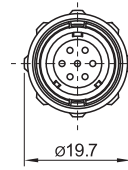
Male contact

(CU):

Colour: All black

Number of contact

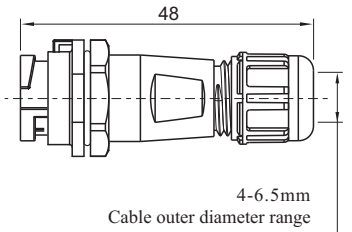
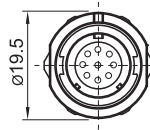
Female contact



In-line cable connector
Mate with SY1310

SY1311 / P

SY1311 / S



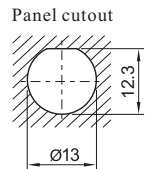
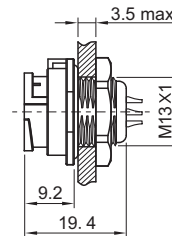
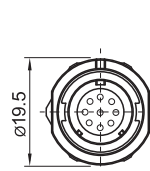
Rear-nut mount
Mate with SY1310

SY1312 / P

SY1312 / S

(CU):

Number of contact



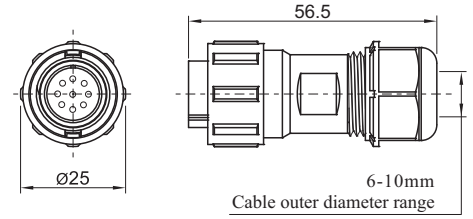
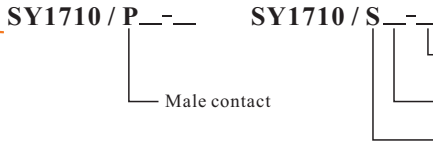
Solder contact spec

Number of contact	9
Male contact face view	
Rated current (A)	3
Contact diameter (mm)	0.7X9
Rated voltage (AC.V)	125
Test voltage(AC.V) 1 min	1000
Contact resistance (mΩ)	10
Wire size (AWG)	20

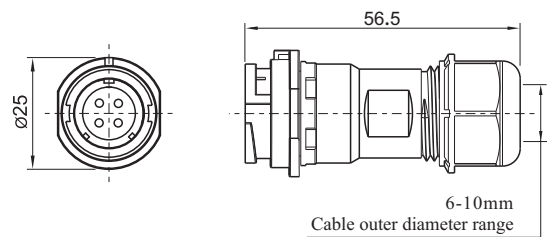
SY17 Series



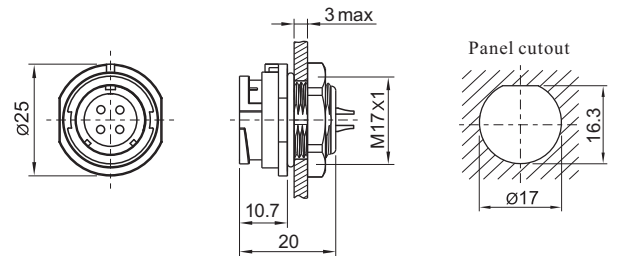
Cable connector
Mate with SY1711, SY1711C, SY1712



In-line cable connector C
Mate with SY1710



Rear-nut mount
Mate with SY1710



Solder contact spec

★Crimp contact spec see P22

★Screw contact spec see P23

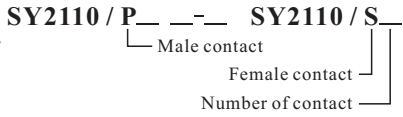
Number of contact	2	3	4	2B	3B	4B	5	7	9	10
Male contact face view										
Rated current (A)	10	10	5	15	15	15	5	5	5	5
Contact diameter(mm)	Ø1.5X2	Ø1.5X3	Ø1X4	Ø2X2	Ø2X3	Ø2X4	Ø1X5	Ø1X7	Ø1X9	Ø1X10
Rated voltage (AC.V)	500	500	500	500	500	500	500	400	400	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	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 ² /AWG)	≤1.5/16	≤1.5/16	≤0.75/18	≤1.5/16	≤1.5/16	≤1.5/16	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18

SY21 Series

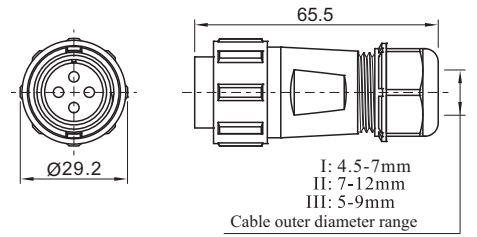
**SY
21**



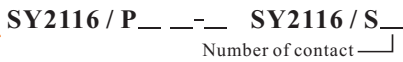
Cable connector
Mate with SY2111, SY2111C, SY2112, SY2113



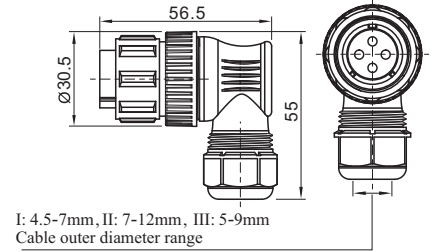
1: solder, 2: screw, 3: crimp
Cable outer diameter range
I: 4.5-7mm, II: 7-12mm, III: 5-9mm



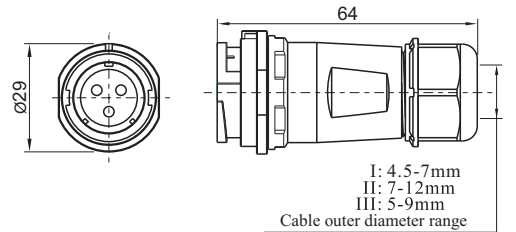
Angled cable connector
Mate with SY2111, SY2111C, SY2112, SY2113



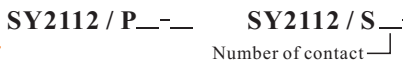
1: solder, 2: screw, 3: crimp
Cable outer diameter range
I: 4.5-7mm, II: 7-12mm, III: 5-9mm



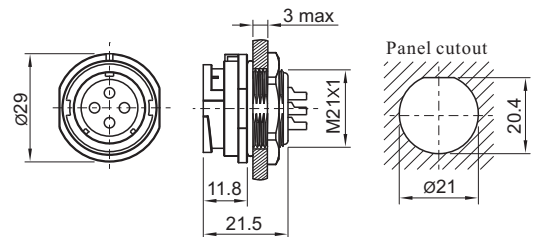
In-line cable connector C
Mate with SY2110, SY2116



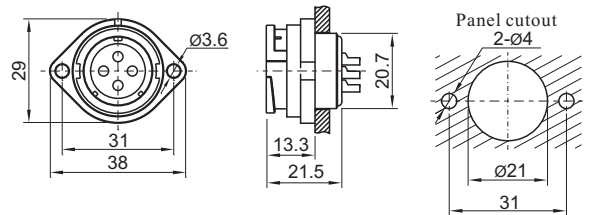
Rear-nut mount
Mate with SY2110, SY2116



1: solder, 2: screw, 3: crimp



2-hole flange
Mate with SY2110, SY2116



Solder contact spec

★Crimp contact spec see P22

★Screw contact spec see P23

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	Ø1.5X8	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 ² / AWG)	≤4/12	≤4/12	≤4/12	≤4/12	≤4/12 ≤0.75/18	≤1.5/16	≤4/12 ≤0.75/18	≤4/12 ≤0.75/18	≤1.5/16	≤1.5/16	≤0.75/18	≤0.75/18	≤0.75/18
Wire size for screw termination (mm ² / AWG)	Min:0.5/20 Max:1.5/15	Min:0.5/20 Max:1.5/15	Min:0.5/20 Max:1.5/15	Min:0.5/20 Max:1.5/15	/	/	/	/	/	/	/	/	/

SY25 Series



**SY
25**

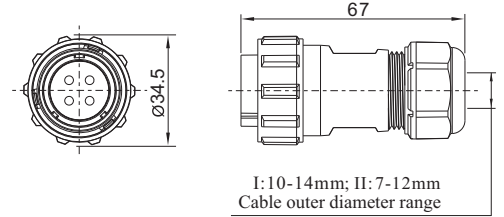


SY2510/P Male contact
SY2510/S Female contact
 Number of contact

Cable connector
 Mate with SY2511, SY2511C,
 SY2512, SY2513

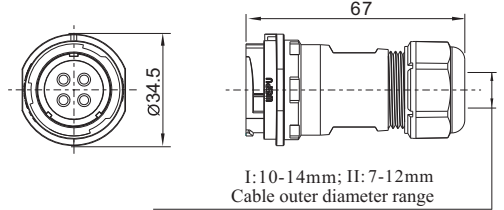
1: solder, 2: screw, 3: crimp

Cable outer diameter range
 I: 10-14mm



SY2511C / P **SY2511C / S**

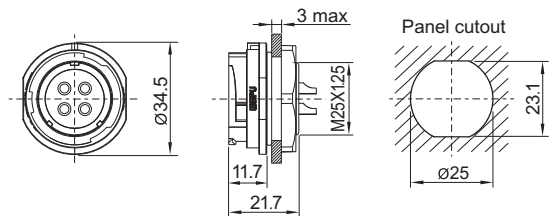
In-line cable connector C
 Mate with SY2510



SY2512 / P **SY2512 / S**
 Number of contact

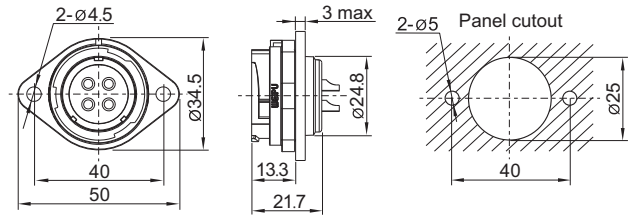
Rear-nut mount
 Mate with SY2510

1: solder, 2: screw, 3: crimp



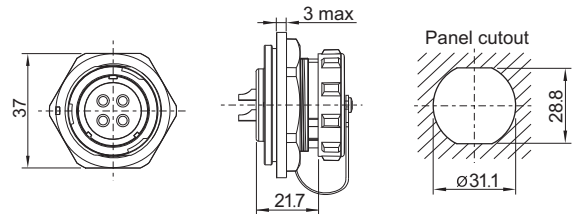
SY2513 / P **SY2513 / S**

2-hole flange
 Mate with SY2510



SY2515 / P **SY2515 / S**

Front-nut mount
 Mate with SY2510



Solder contact spec

★Crimp contact spec see P22

★Screw contact spec see P23

Number of contact	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)	Ø2.5X2	Ø2.5X3	Ø2.5X4	Ø1X5 Ø2.5X4	Ø1.5X10	Ø1.5X12	Ø1X9 Ø3X3	Ø1X19
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
Termination	solder / screw	solder / screw	solder / screw	/	/	/	/	/
Wire size (mm ² /AWG)	≤4/12	≤4/12	≤4/12	≤0.75/18 ≤4/12	≤1.5/16	≤1.5/16	≤0.75/18 ≤4/12	≤0.75/18
(mm ² /AWG)	Min:0.5/20 Max:1.5/15	Min:0.5/20 Max:1.5/15	Min:0.5/20 Max:1.5/15	/	/	/	/	/
Wire size for screw termination								

SY25 Series



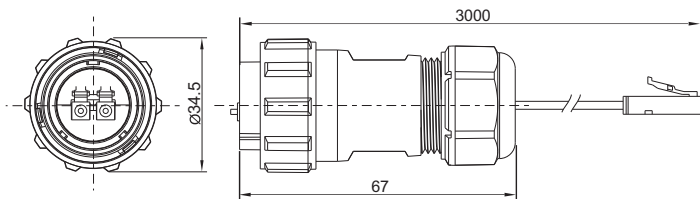
SY25
Signal&Data



Plug with LC adapter
Mate with SY2511, SY2511C,
SY2512, SY2513, SY2515

SY2510/PLC-

Cable length:
1.0m
3.0m
5.0m

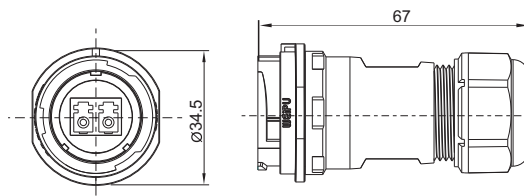


★ Cable length can be customized



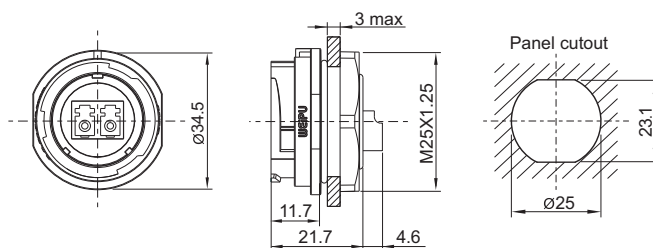
Rreceptacle with LC adapter C
Mate with SY2510

SY2511C/SLC



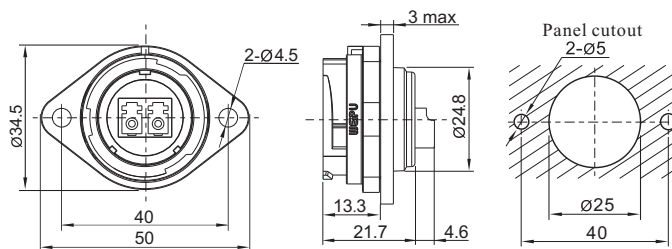
Rear-nut mount receptacle
with LC adapter
Mate with SY2510

SY2512/SLC



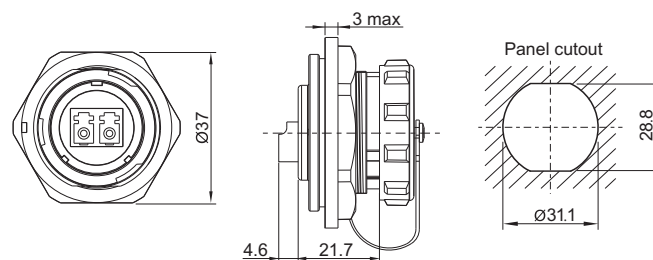
2-hole flange
with LC adapter
Mate with SY2510

SY2513/SLC



Front-nut mount
with LC adapter
Mate with SY2510

SY2515/SLC



SY25 Series



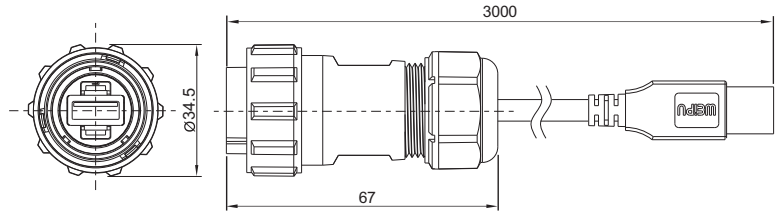
SY25
Signal&Data



Plug with USB3.0 adapter
Mate with SY2511, SY2511C,
SY2512, SY2513, SY2515

SY2510/PUSB3.0-

Cable length:
1.0m
3.0m
5.0m

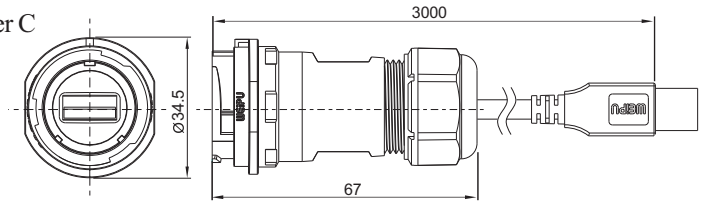


★ The cable length can be customized, but not more than 3 meters.



Rreceptacle with USB3.0 adapter C
Mate with SY2510

SY2511C/SUSB3.0-

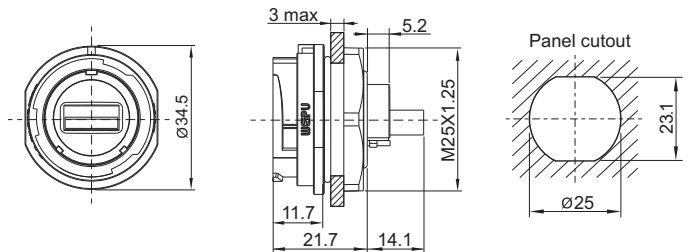


★ The cable length can be customized, but not more than 3 meters.



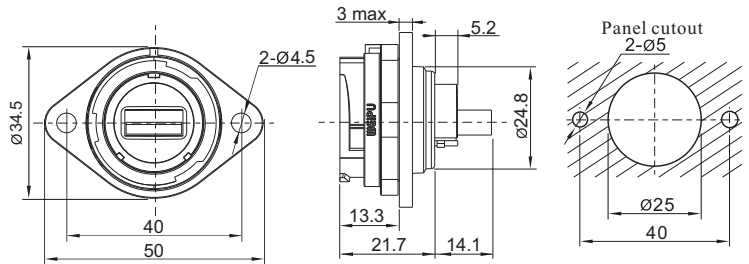
Rear-nut mount receptacle
with USB3.0 adapter
Mate with SY2510

SY2512/SUSB3.0



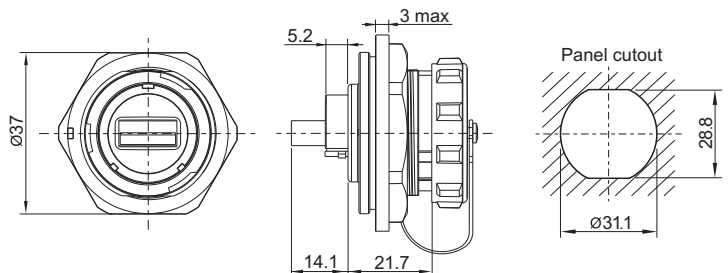
2-hole flange
with USB3.0 adapter
Mate with SY2510

SY2513/SUSB3.0



Front-nut mount
with USB3.0 adapter
Mate with SY2510

SY2515/SUSB3.0





SY25 Series

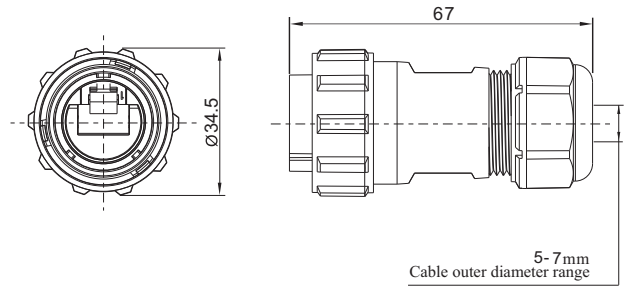
SY25
Signal&Data



Plug with RJ 45 adapter
Mate with SY2511, SY2511C,
SY2512, SY2513, SY2515

SY2510/PRJ45

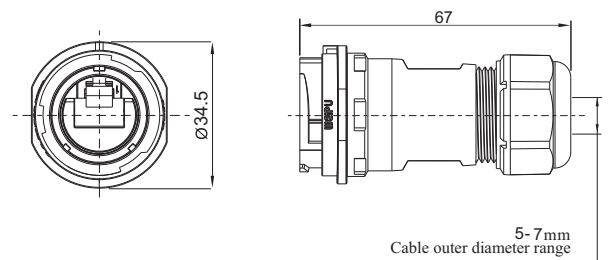
Blank: CAT5
-C6: CAT6



Receptacle with RJ45 adapter C
Mate with SY2510

SY2511C/SRJ45

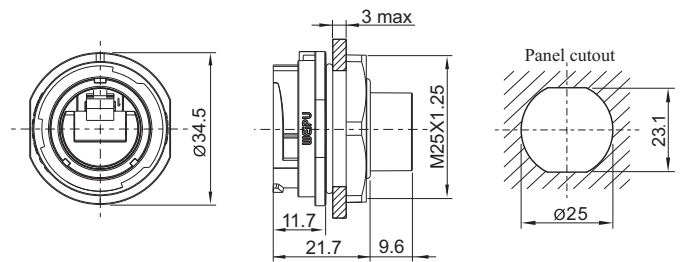
Blank: CAT5
-C6: CAT6



Rear-nut mount receptacle
with RJ45 adapter
Mate with SY2510

SY2512/SRJ45

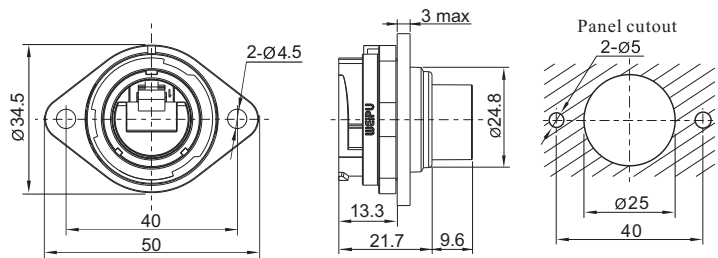
Blank: CAT5
-C6: CAT6



2-hole flange
with RJ45 adapter
Mate with SY2510

SY2513/SRJ45

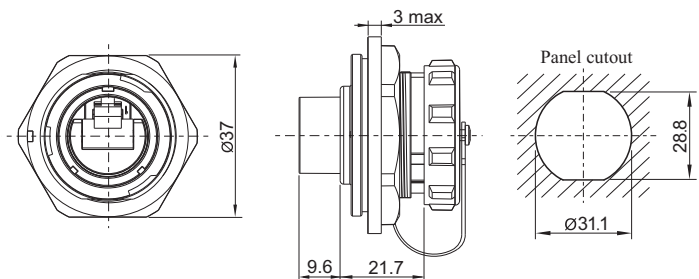
Blank: CAT5
-C6: CAT6



Front-nut mount
with RJ45 adapter
Mate with SY2510

SY2515/SRJ45

Blank: CAT5
-C6: CAT6



08

SY25 Series



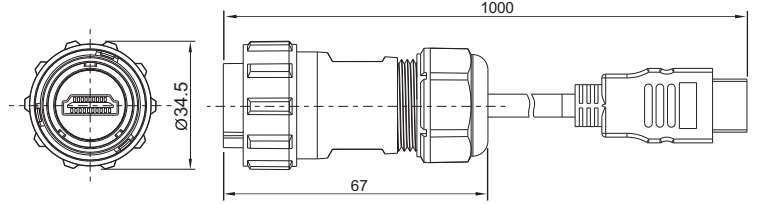
SY25
Signal&Data



Plug with HDMI adapter
Mate with SY2511, SY2511C,
SY2512, SY2513, SY2515

SY2510/PHDMI2.0—

Cable length:
1.0m
3.0m
5.0m

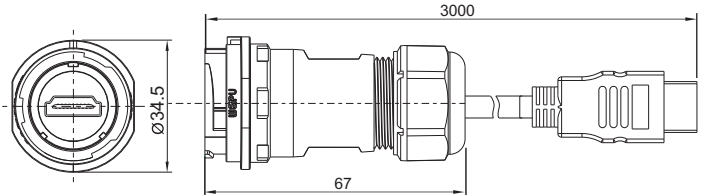


★ The cable length can be customized, but not more than 5 meters.



Receptacle with
HDMI2.0 adapter C
Mate with SY2511, SY2511C,
SY2512, SY2513, SY2515

SY2511C/SHDMI2.0—

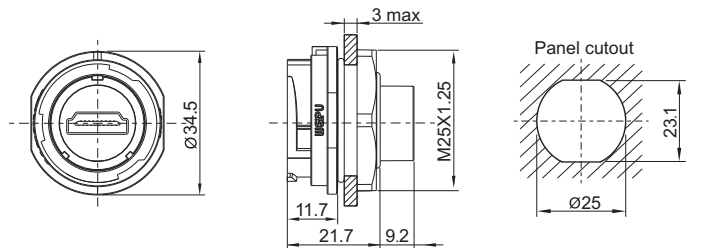


★ The cable length can be customized, but not more than 5 meters.



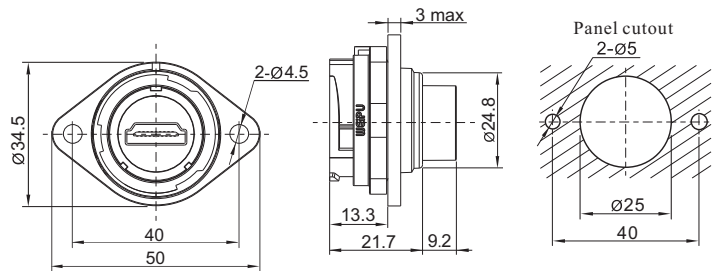
Rear-nut mount receptacle
with HDMI2.0 adapter
Mate with SY2510

SY2512/SHDMI2.0



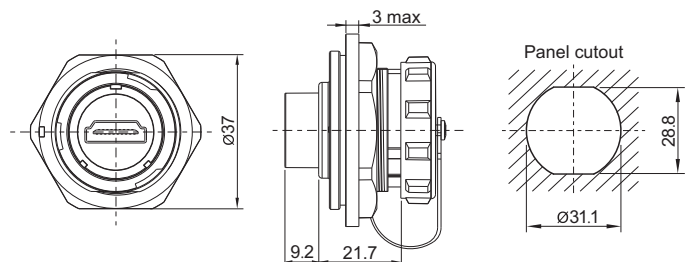
2-hole flange
with HDMI2.0 adapter
Mate with SY2510

SY2513/SHDMI2.0



Front-nut mount
with HDMI2.0 adapter
Mate with SY2510

SY2515/SHDMI2.0



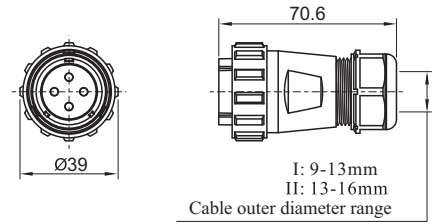
SY29 Series



Cable connector
Mate with SY2911, SY2911C,
SY2912, SY2913

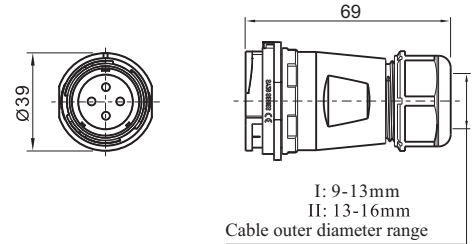
SY2910 / P --- **SY2910 / S** ---
 Male contact
 Female contact
 Number of contact

1: solder, 2: screw, 3: crimp
 I: 9-13mm II: 13-16mm
 Cable outer diameter range



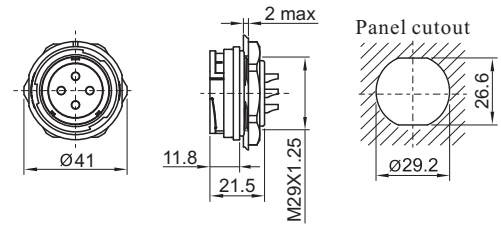
In-line cable connector C
Mate with SY2910

SY2911C/P --- **SY2911C/S** ---



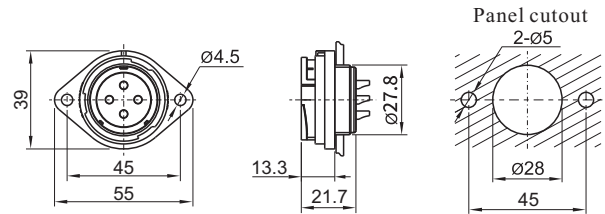
Rear-nut mount
Mate with SY2910

SY2912 / P --- **SY2912 / S** ---
 1: solder, 2: screw, 3: crimp
 Number of contact



2-hole flange
Mate with SY2910

SY2913 / P --- **SY2913 / S** ---



Solder contact spec

★ Crimp contact spec see P22

★ Screw contact spec see P23



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	0.5, 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 ² /AWG)	≤10/7	≤10/7	≤4/12	≤4/12	≤4/12	≤16/5 ≤0.75/18	≤4/12 ≤0.75/18	≤4/12	≤1.5/16	≤1.5/16	≤1.5/16	≤1.5/16	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18
(mm ² /AWG) Wire size for screw termination	Min:0.5/20 Max:6/10	Min:0.5/20 Max:6/10	Min:0.5/20 Max:1.5/15	Min:0.5/20 Max:1.5/15	Min:0.5/20 Max:1.5/15	/	/	Min:0.5/20 Max:1.5/15	/	/	/	/	/	/	/	/


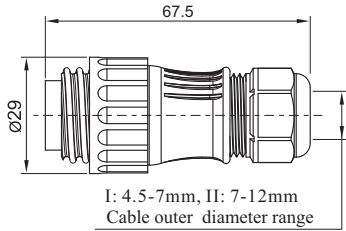




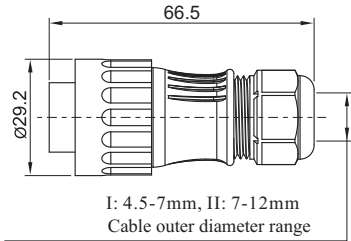

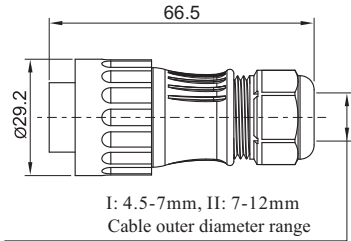

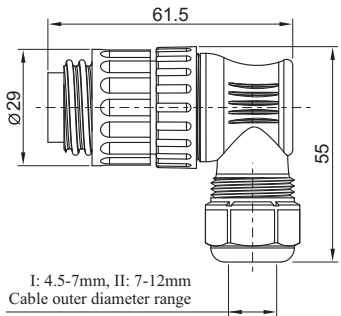

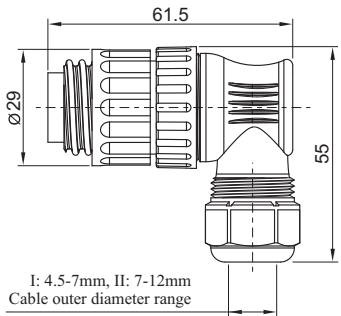

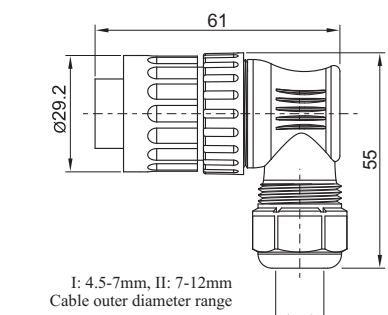

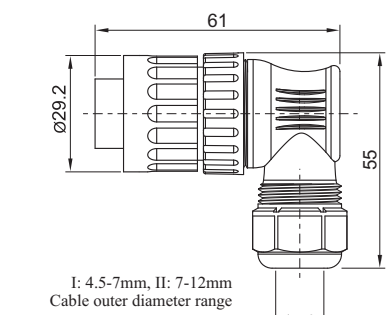

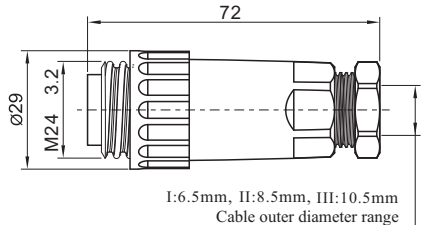

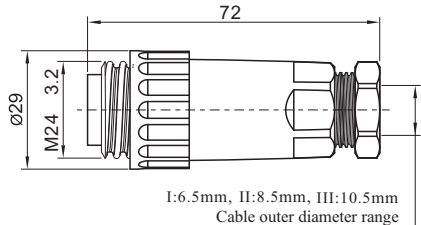
IP67


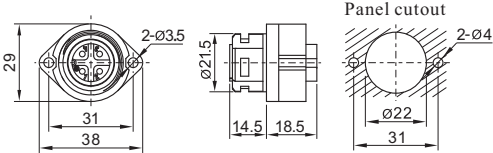

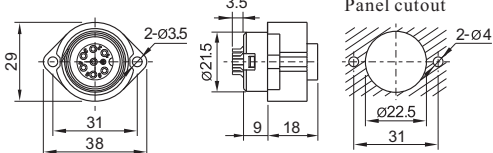

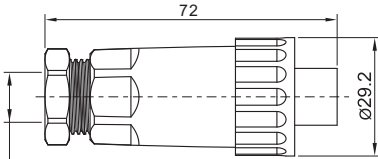

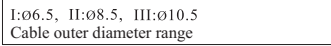

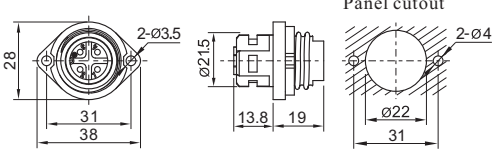

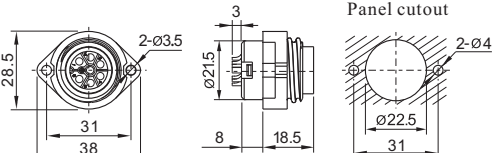

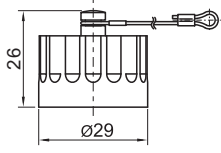

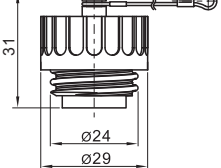


● WA Series IP67

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 ² /AWG)	Min: 0.75/18 Max: 2.5/14	≤0.75/18
Termination	Screw	Solder
Test voltage(AC.V)1min	2000	
Insulation resistance (MΩ)	2000	
Shell material	Nylon66, fire resistance: V-0	
Contact material	Brass with gold plating	
Temperature range	-40℃~+85℃	
Mating cycle	500	

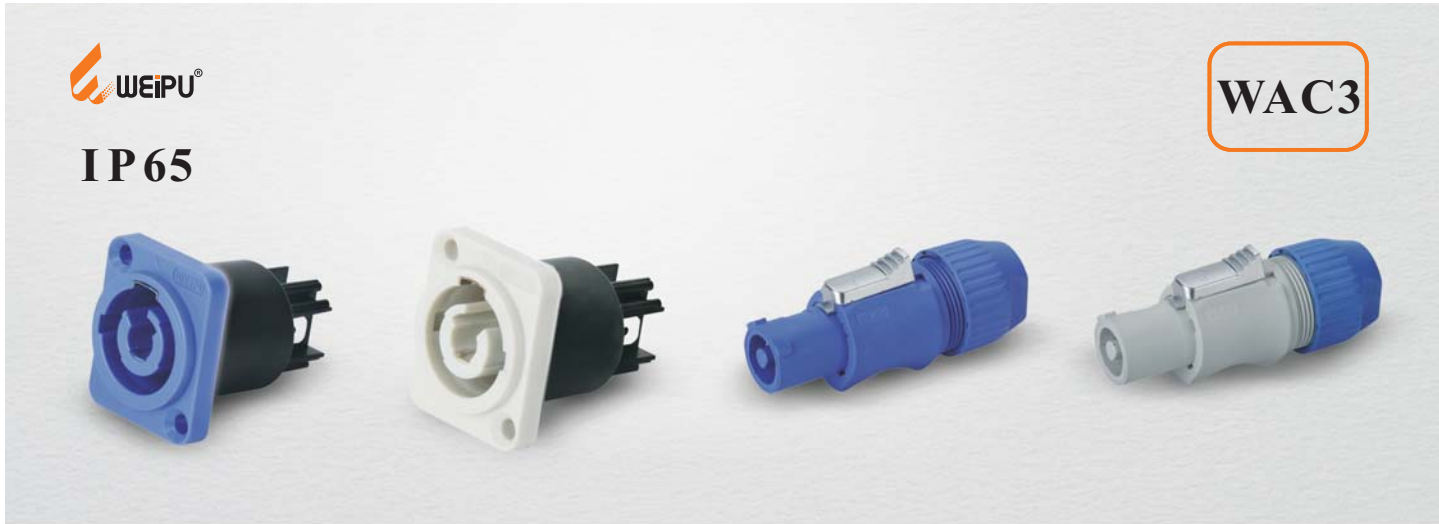
Part number	Description	Drawing
 WA22J4TK2	3+PE male cable connector with short back shell, screw termination	 <p>I: 4.5-7mm, II: 7-12mm Cable outer diameter range</p>
 WA22J7TK1	6+PE male cable connector with short back shell, solder termination	

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

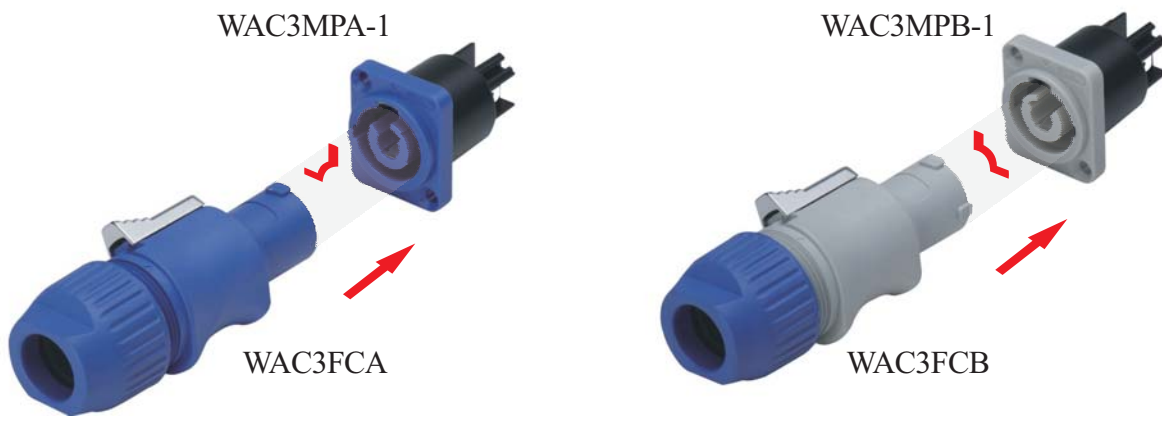
Part number	Description	Drawing
WA22K4Z2 	3+PE female panel connector, screw termination	
WA22K7Z1 	6+PE female panel connector, solder termination	
WA22K4ZE2 	3+PE female cable connector, screw termination	
WA22K7ZE1 	6+PE female cable connector, solder termination	
WA22J4Z2 	3+PE male panel connector, screw termination	
WA22J7Z1 	6+PE male panel connector, solder termination	
WA22G1 	Cap 1	
WA22G2 	Cap 2	



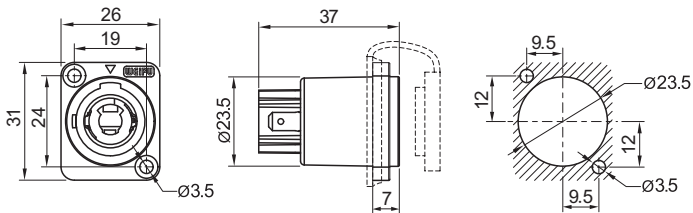
IP65



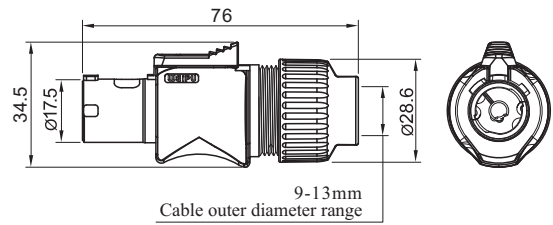
● WAC3 Series



● 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 (MΩ)	2000
Mating cycle	1000
Temperature range	-40℃~+85℃
IP range	IP65 (mated)
Termination	Plug: screw, Receptacle: 3/16" flat tab terminals

10

IP65

WAC3 Series



IP67

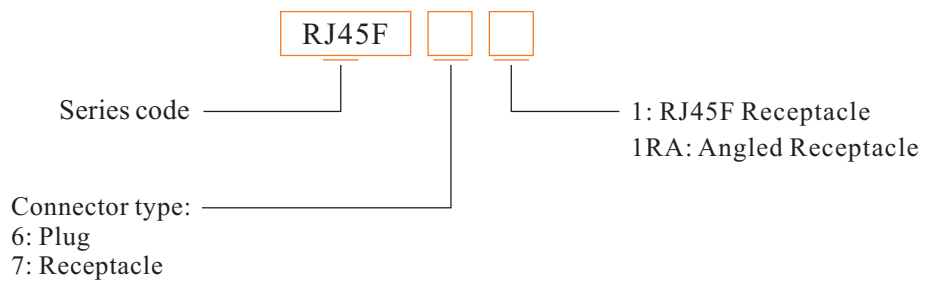


● **RJ45F Series IP67**

RJ45F connector is used to connect standard Ethernet Class D 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.

11

Part number system



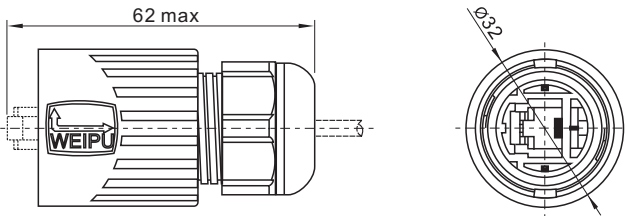
Material and spec

Coupling	Bayonet
Shell material	PC, fire resistance: V-0
IP rating	IP67 (mated)
Cable out diameter range	I: 5–6mm, II: 6–7mm
Mating cycle	500
Temperature range	-40°C ~ +85°C
Transmission Speed	100–1000Mbps

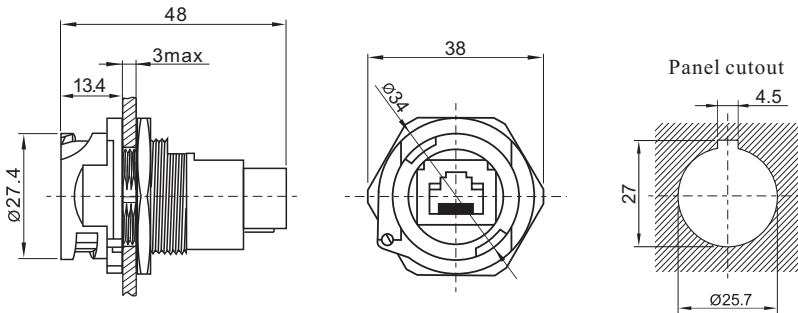
IP67



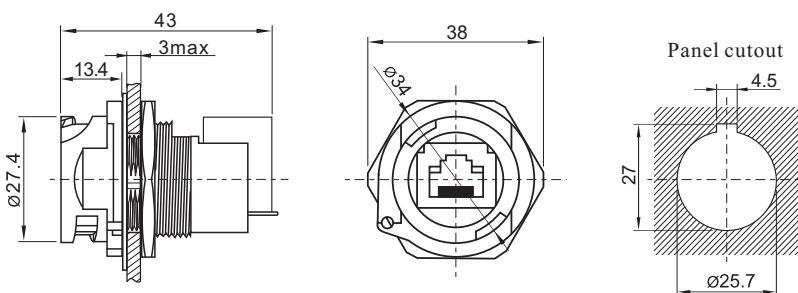
- RJ45F plug: RJ45F6
 - Cable outer diameter
I: 5-6mm, II: 6-7mm



- RJ45F Receptacle: RJ45F71



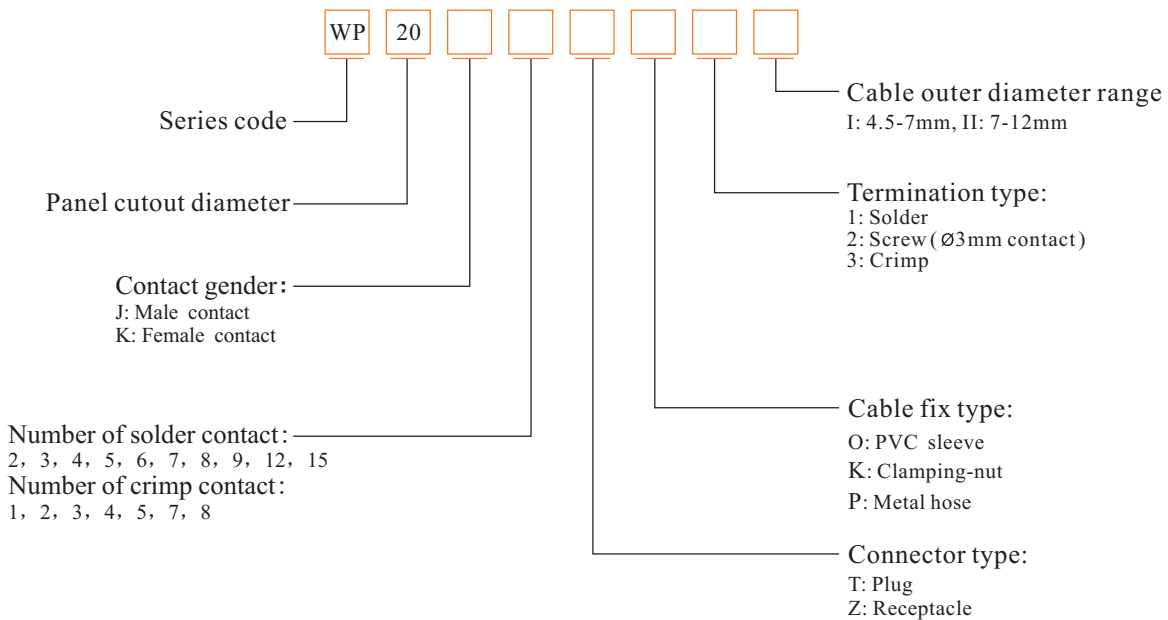
- Angled Receptacle: RJ45F71RA





● WP Series

Part number system



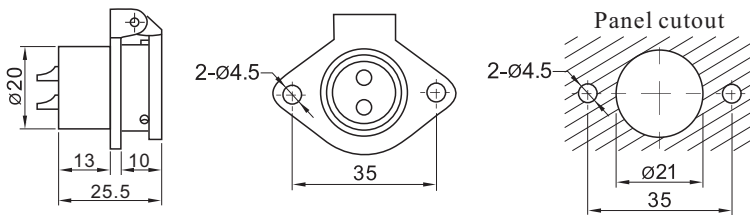
★ Each side can be male or female contact

Material and spec

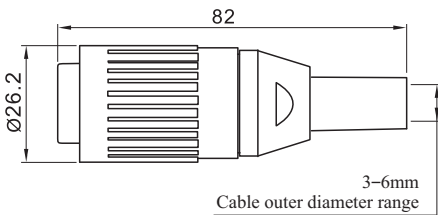
Coupling	Bayonet
Shell	Nylon 66 / Zinc alloy
Insert material	PPS, max temperature 260 °C
Contact material	Brass with gold Plating
Termination	Solder: Ø1mm, Ø2mm, Ø3mm contact Screw: Ø3mm contact Crimp: Ø1mm, Ø1.5mm, Ø2.5mm, Ø5.5mm contact
Mating cycle	500
Temperature range	-40°C ~ +85°C



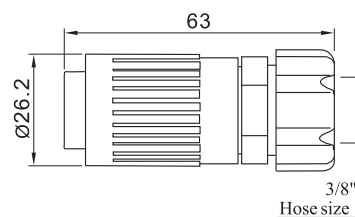
● Receptacle: Z IP44



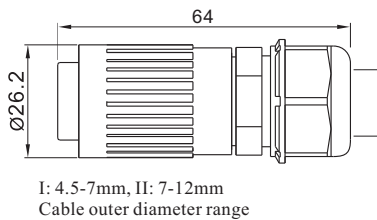
● PVC sleeve : TO



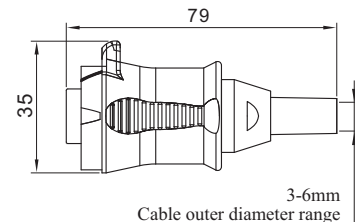
● Metal hose: TP



● Plastic clamping-nut: TK IP55



● Without bayonet: TO-G



Solder contact spec

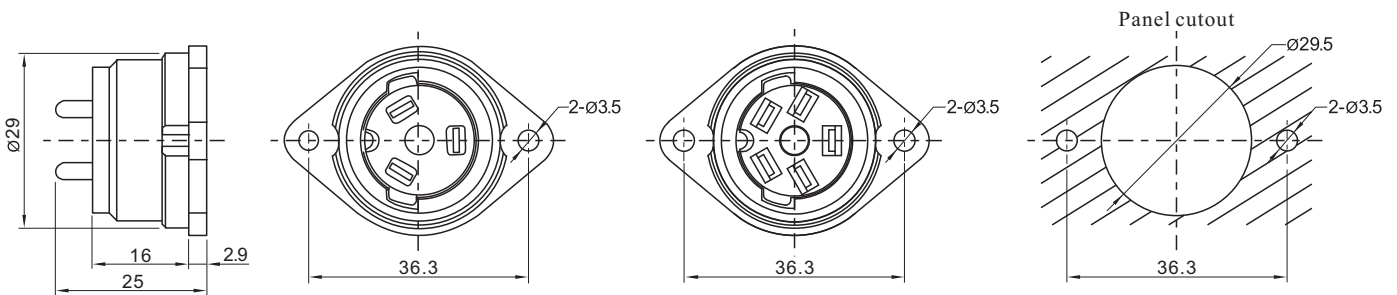
★Crimp contact spec see P22

★Screw contact spec see P23

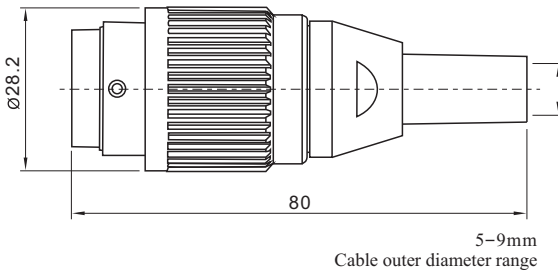
Number of contact	2	3	4	5	5B	5C	6	6B	7	8	9	12	15
Male contact face view													
Rated current (A)	30	30	30	30	30 5	15	25 5	30 5	15	10	5	5	5
Contact diameter (mm)	Ø3X2	Ø3X3	Ø3X4	Ø3X5	Ø3X2 Ø1X3	Ø2X5	Ø2.5X4 Ø1X2	Ø3X2 Ø1X4	Ø2X7	Ø1.5X8	Ø1X9	Ø1X12	Ø1X15
Rated voltage (AC.V)	500	500	500	500	500	500	500	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 ² / AWG)	≤4/12	≤4/12	≤4/12	≤4/12	≤4/12 ≤0.75/18	≤1.5/16	≤4/12 ≤0.75/18	≤4/12 ≤0.75/18	≤1.5/16	≤1.5/16	≤0.75/18	≤0.75/18	≤0.75/18
Wire size for screw termination (mm ² / AWG)	Min:0.5/20 Max:1.5/15	Min:0.5/20 Max:1.5/15	Min:0.5/20 Max:1.5/15	Min:0.5/20 Max:1.5/15	/	/	/	/	/	/	/	/	/



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



- Plug: WT29J3T / WT29J5T



13

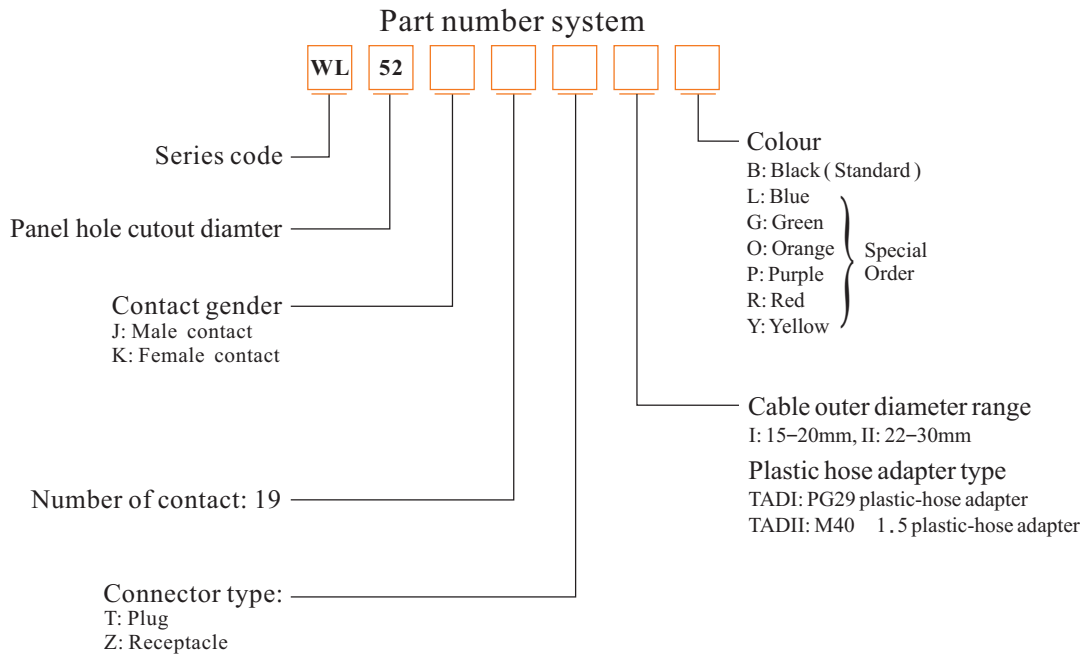
Material and spec

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 (mΩ)	2000
Test voltage (AC.V) 1 min	1500
Wire size (mm ² /AWG)	2.5 / 16 max
Rated current (A)	10
Rated voltage (AC.V)	400
Contact resistance (mΩ)	2.5

WT29 Series



IP66/67

WL52 Series


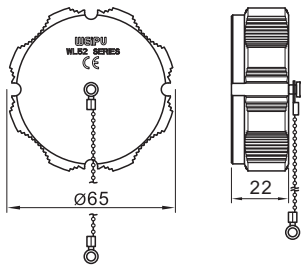
14

Material and spec

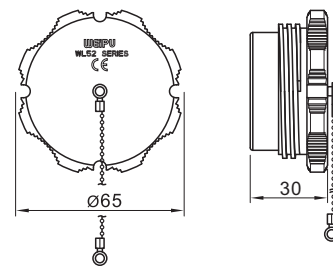
Coupling	Threaded
Shell	Anodized aluminium
Insert material	PPS, fire resistance: V-0, max temperature 260°C
Contact material	Brass with gold plating
IP rating	IP66/67 (mated)
Termination	Solder
Mating cycle	500
Temperature range	-40°C ~ +85°C
Insulation resistance	2000 MΩ



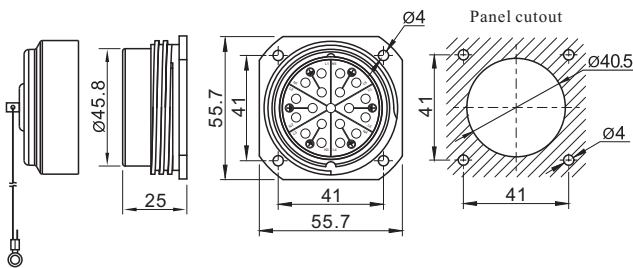
● WL52-GZK IP67
Aluminium cap for female-contact connector



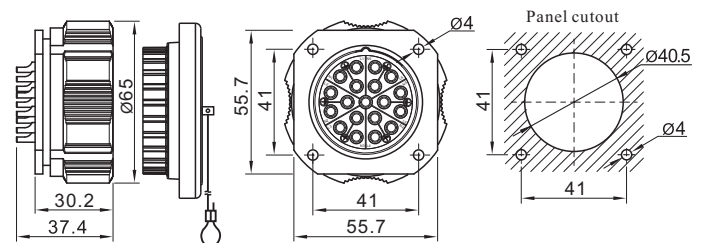
● WL52-GZJ IP67
Aluminium cap for male-contact connector



● WL52K19Z IP67
Square flange female contact receptacle



● WL52J19Z IP67
Square flange male contact receptacle

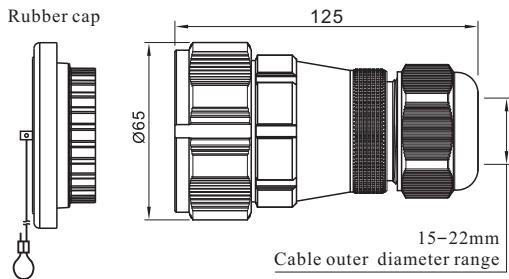


Solder contact spec

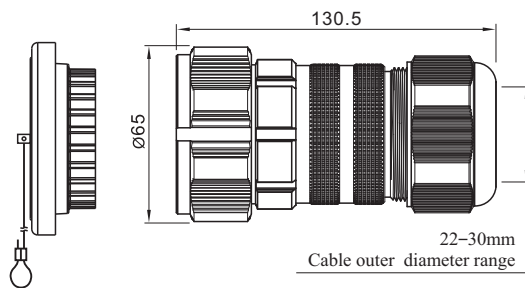
Number of contact	19
Male contact face view	
Rated current (A)	25
Contact diameter	Ø3
Rated voltage	700 (DC.V), 500 (AC.V)
Test voltage(AC.V) 1 min	2500
Contact resistance (mΩ)	1
Wire size (mm ² /AWG)	≤6/9



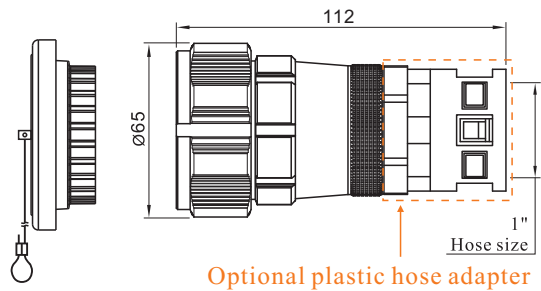
- Male-contact plug with clamping-nut: WL52J19T IP67



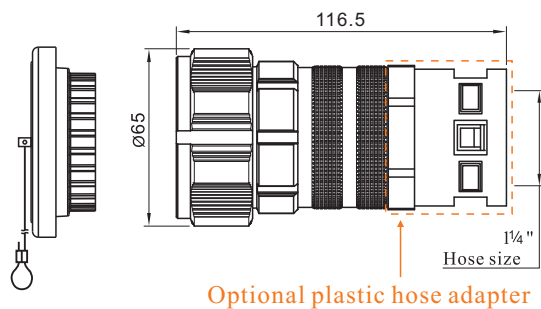
- Male-contact plug with clamping-nut 2: WL52J19TII IP67



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

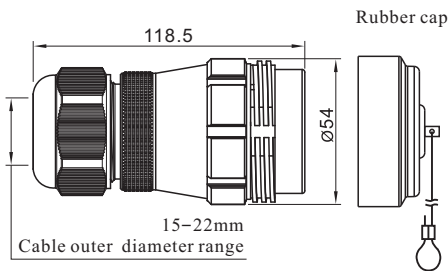


- Male-contact plug for M40 × 1.5 plastic hose adapter: WL52J19TAD II IP66

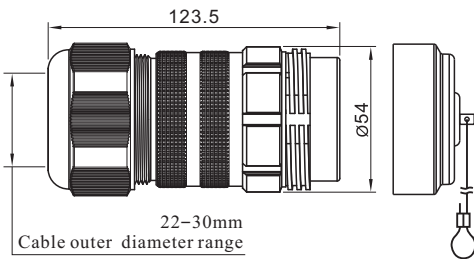




- Female-contact connector with clamping-nut: WL52K19T IP67



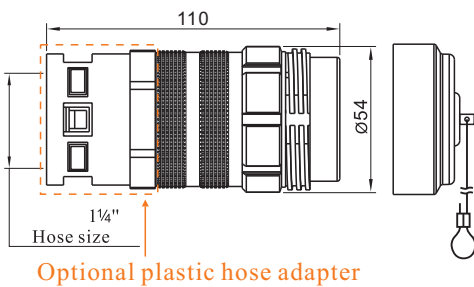
- Female-contact connector with clamping-nut 2: WL52K19TII IP67



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

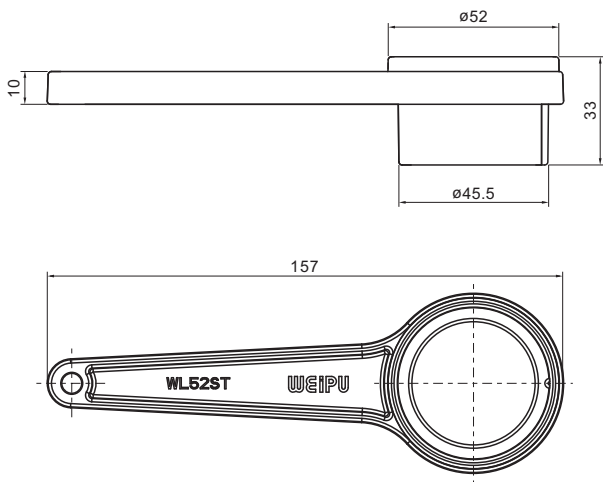


- Female-contact connector for M40×1.5 Plastic hose adapter: WL52K19TAD II IP66

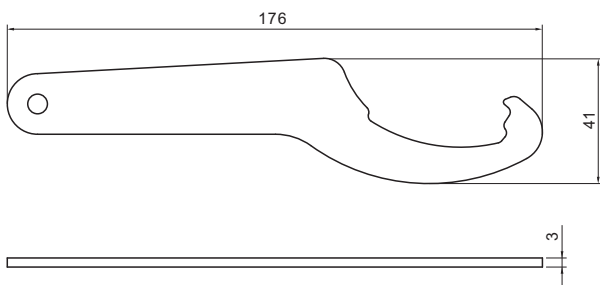




● Wrench 1: WL52ST



● Wrench 2: WL52SY

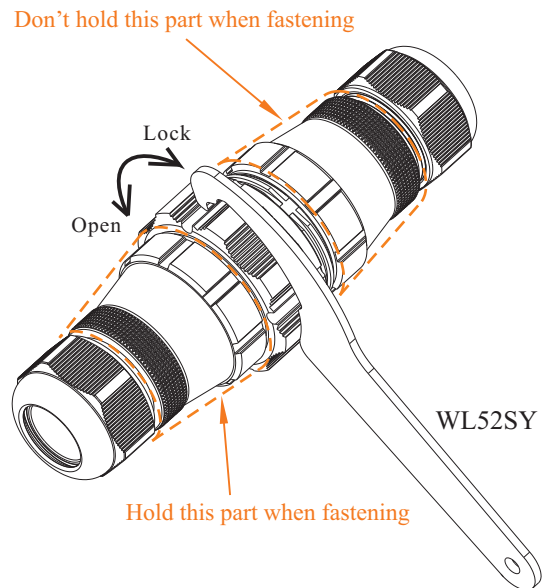
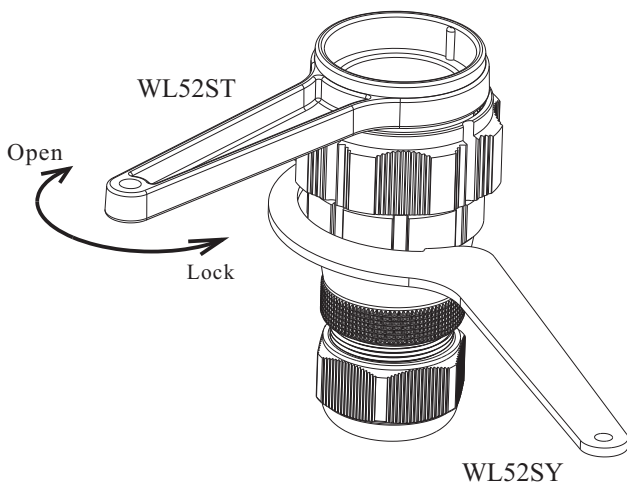
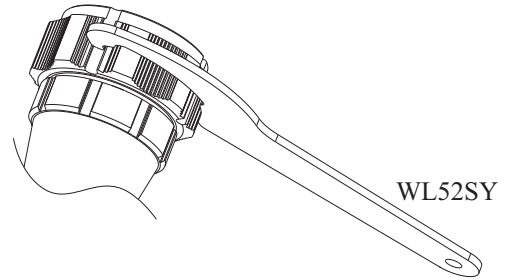
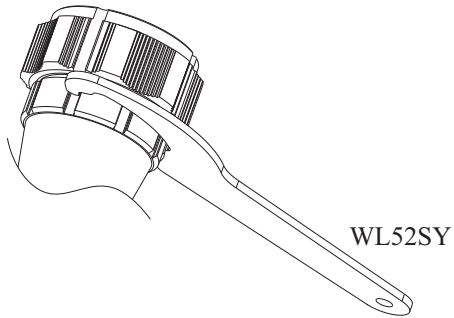
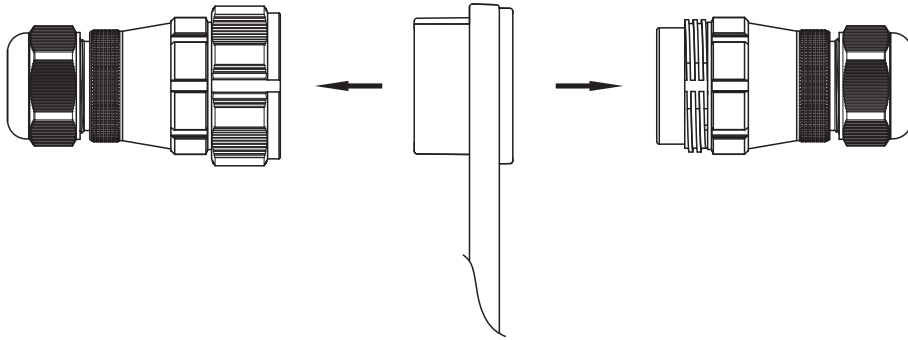


Instruction

Male-contact connector

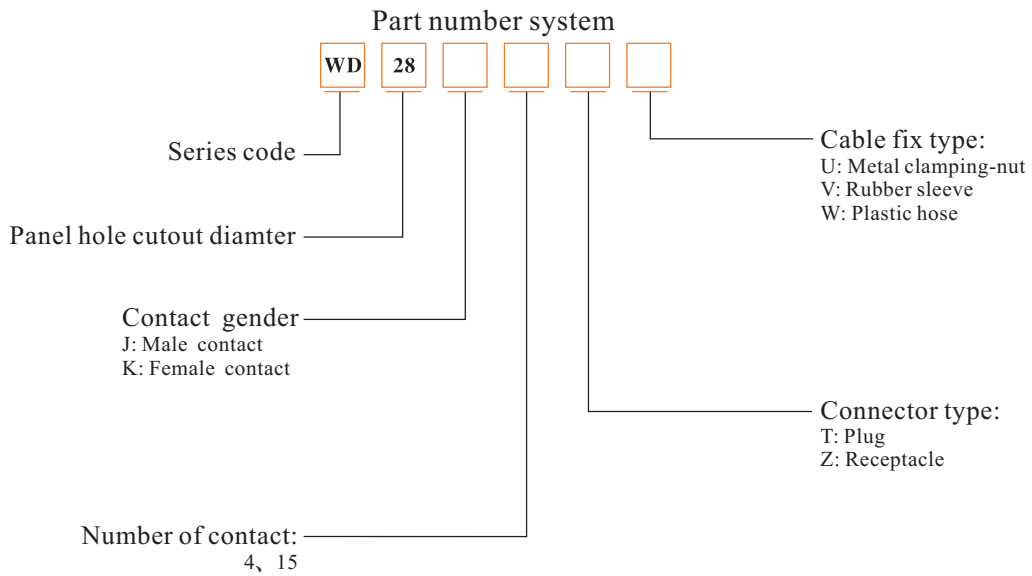
WL52ST

Female-contact connector





● **WD Series**

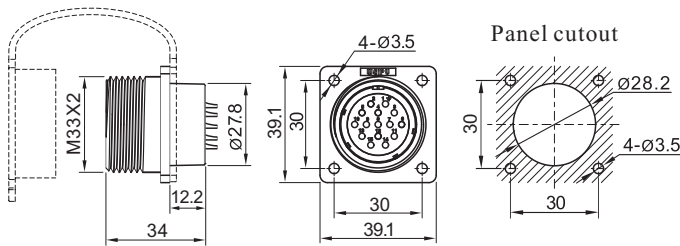


Material and spec

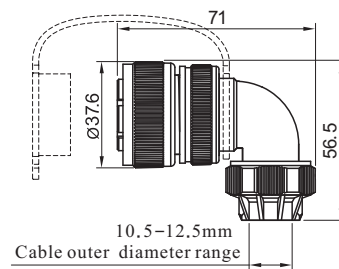
Coupling	Threaded
Shell material	Zinc alloy with black nickel plating
Insert material	PPS, max temperature 260 C
Contact material	Brass with gold plating
Termination	Solder
Mating cycle	500
Temperature range	-40°C~+85°C
Insulation resistance	2000 mΩ



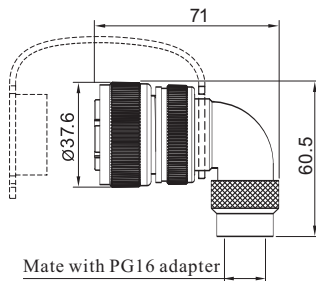
● Receptacle: Z IP65



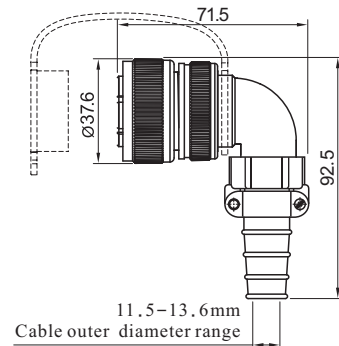
● Cable connector with clamping-nut: TU IP65



● Cable connector for plastic hose: TW IP55



● Cable connector with rubber sleeve: TV IP65

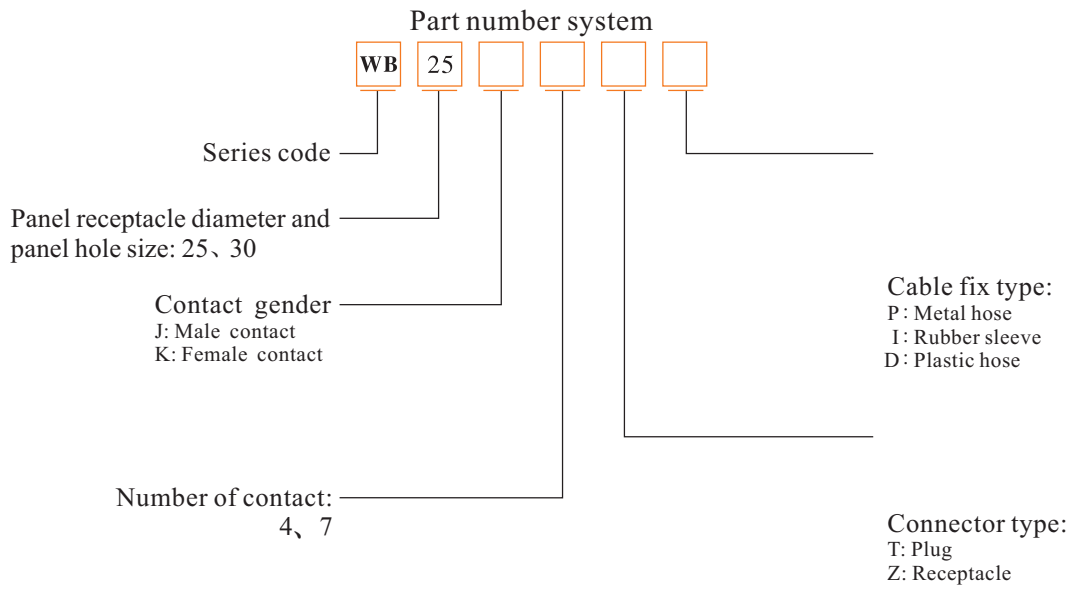


Solder contact spec

Number of contact	4	15
Male contact face view		
Rated current (A)	50A、25A	10A
Contact diameter	Ø3.5 X 3、Ø2.5 X 1	Ø1.5 X 15
Rated voltage (AC.V)	500	500
Test voltage(AC.V) 1 min	1500	1500
Contact resistance (mΩ)	0.5、1	2.5
Wire size (mm ² /AWG)	≤10 / 7、≤4 / 12	≤1.5 / 16



● **WB Series**

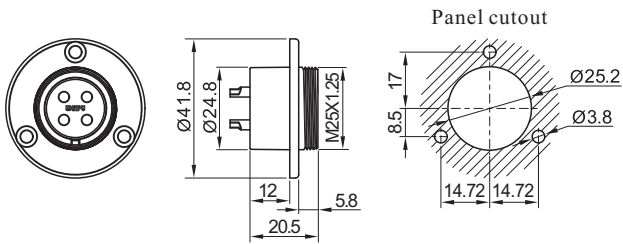


Material and spec

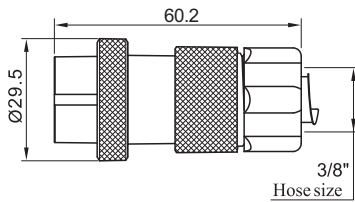
Coupling	Threaded
Shell material	Zinc alloy with chrome plating
Insert material	PPS, max temperature 260℃
Contact material	Brass with gold plating
Termination	Solder
Mating cycle	500
Temperature range	-40℃ ~ +85℃
Insulation resistance	2000 mΩ



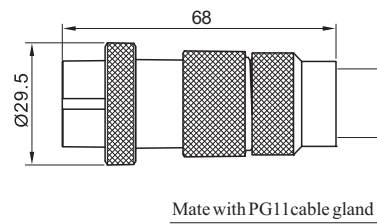
● Receptacle: Z



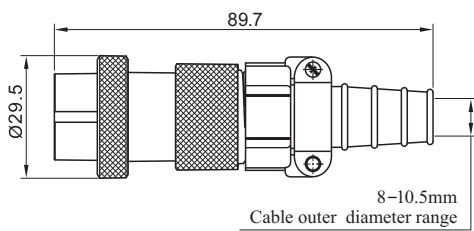
● Plug for metal-hose: TP



● Plug for plastic hose: TD



● Plug with rubber sleeve: TI

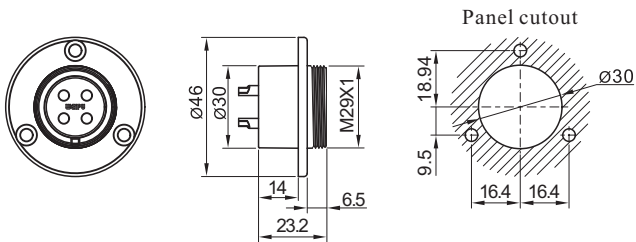


Solder contact spec

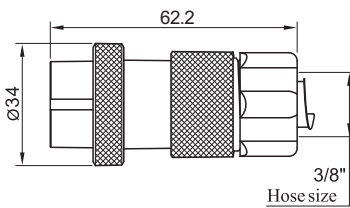
Number of contact	4
Male contact face view	
Rated current (A)	25
Contact diameter	Ø2.5X4
Rated voltage (AC.V)	500
Test voltage(AC.V) 1 min	1500
Contact resistance (mΩ)	1
Wire size (mm ² /AWG)	≤ 4 / 12



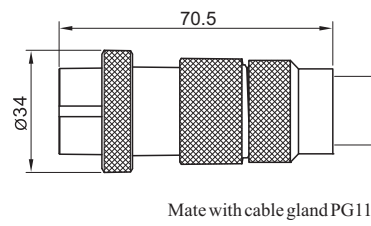
● Receptacle: Z



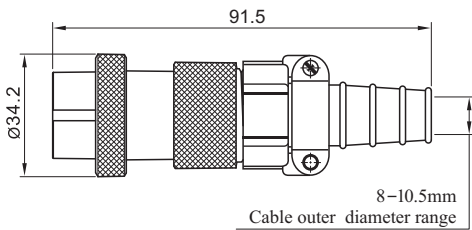
● Plug for metal-hose: TP



● 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	Ø3.5X4	Ø2.5X7
Rated voltage (AC.V)	500	500
Test voltage(AC.V) 1 min	1500	1500
Contact resistance (mΩ)	1	1
Wire size (mm ² /AWG)	≤ 4 / 12	≤ 4 / 12

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: Ø1, Ø1.5, Ø2.5, Ø3.5, Ø5.5mm Crimp: Ø1, Ø1.5, Ø2.5, Ø3.5, Ø5.5, Ø10 mm Screw: Ø1, Ø1.5, Ø2.5, Ø3.5, Ø5.5, Ø10 mm
Mating cycle	500
Temperature range	-40°C ~ +85°C

★ Solder contact spec see page P21 ★ Crimp contact spec see P22 ★ Screw contact spec see P23

● **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

● WS Series

Part number system



Series code

Panel hole cutout diameter

16、20、24、28、32、40、48、55

Contact gender

J:Male contact

K:Female contact

Number of solder contact:

2、3、4、5、6、7、8、9、10、11、
12、13、15、16、17、19、20、24、
26、27、31、35、38、40、42、53、61

Number of crimp contact:

1、2、3、4、5、6、7、8、9、10、
12、15、19、31、38、42、61

注：不同芯数接插后电流对照表见P17-01

★ Each side can be male or female contact

Termination type:

- 1: Solder
- 2: Screw (for Ø2.5, Ø3, Ø3.5mm contact)
(Ø2.5、Ø3、Ø3.5mm)
- 3: Crimp

Shell structure and cable fix type :

- Z: Square flange receptacle
- ZM: Round flange receptacle
- ZMQ: Front-nut-mount receptacle
- ZG: 2-hole flange receptacle

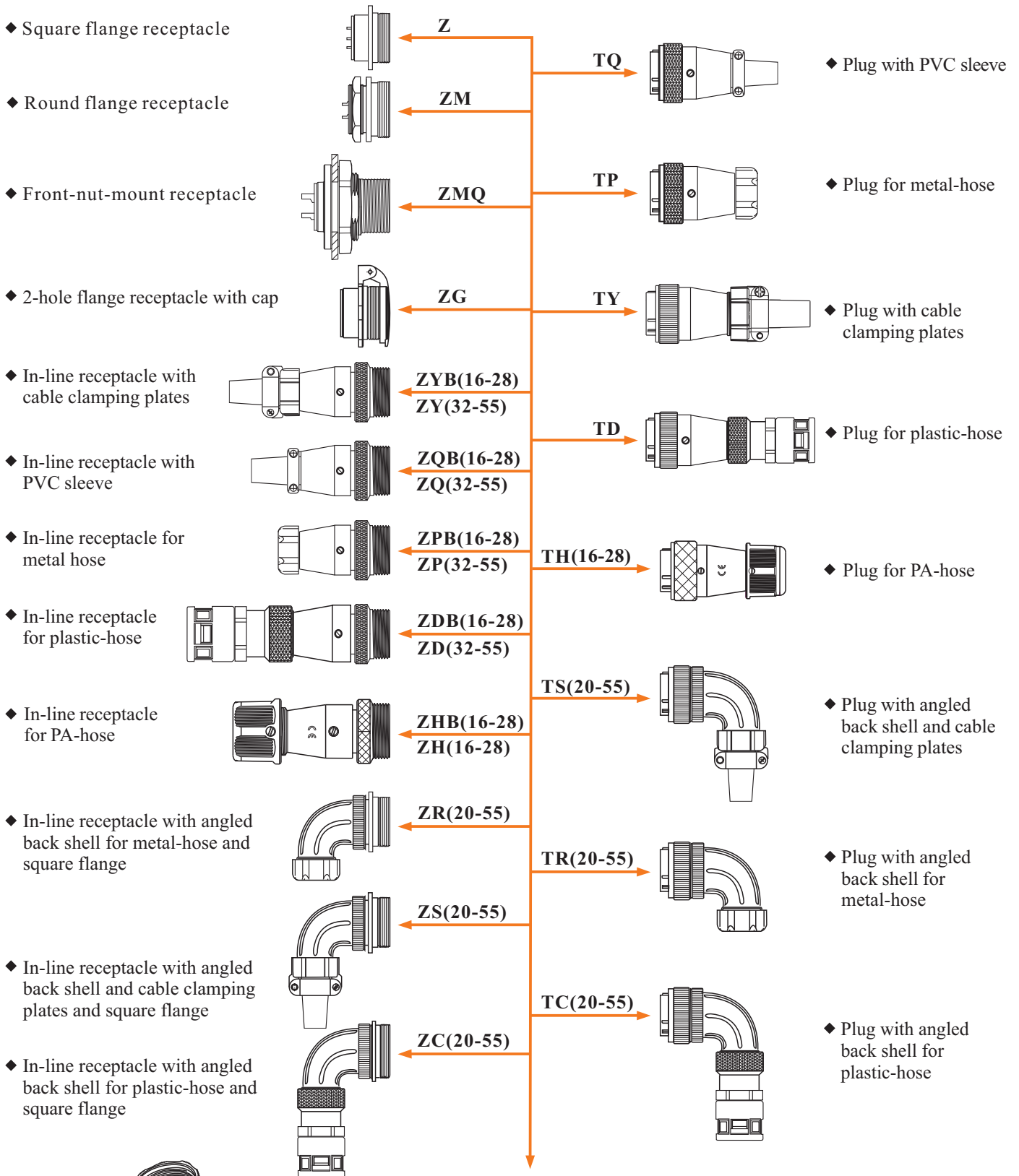
Straight

- ZYB: Receptacle with cable clamping plates B (for WS16-28)
- ZY: Receptacle with cable clamping plates (for WS32-55)
- T Q: Plug with PVC sleeve
- ZQB: Receptacle with PVC sleeve B (for WS16-28)
- ZQ: Receptacle with PVC sleeve (for WS32-55)
- T P: Plug for metal hose
- T Y: Plug with cable clamping plates
- ZPB: Receptacle for metal hose B (for WS16-28)
- ZP: Receptacle for metal hose (for WS32-55)
- T D: Plug for plastic hose
- ZDB: Receptacle for plastic hose B (for WS16-28)
- ZD: Receptacle for plastic hose (for WS32-55)
- TH: Plug for PA-hose (for WS16-28)
- ZHB: In-line receptacle for PA-hose B(for WS16-28)
- ZH: In-line receptacle for PA-hose (for WS16-28)
- ZQF: In-line receptacle with PVC sleeve and square flange(for WS16-55)
- ZYF: In-line receptacle with cable clamping plates and square flange(for WS16-55)
- ZPF: In-line receptacle for metal-hose and square flange(for WS16-55)
- ZDF: In-line receptacle for plastic-hose and square flange(for WS16-55)
- TX: Plug with strain relief (for WS28)
- ZXB: In-line receptacle with anti-bending sleeveB (for WS28)

Angled

- T R/ ZR: Plug / receptacle for metal hose(for 20-55)
- TS / ZS: Plug / receptacle with cable clamping plates(for 20-55)
- T C/ ZC: Plug / receptacle for plastic hose(for 20-55)

WS Series Mating diagram (1)



◆ Square flange receptacle

◆ Round flange receptacle

◆ Front-nut-mount receptacle

◆ 2-hole flange receptacle with cap

◆ In-line receptacle with cable clamping plates

◆ In-line receptacle with PVC sleeve

◆ In-line receptacle for metal hose

◆ In-line receptacle for plastic-hose

◆ In-line receptacle for PA-hose

◆ In-line receptacle with angled back shell for metal-hose and square flange

◆ In-line receptacle with angled back shell and cable clamping plates and square flange

◆ In-line receptacle with angled back shell for plastic-hose and square flange

◆ Plastic receptacle cap

◆ Plug with PVC sleeve

◆ Plug for metal-hose

◆ Plug with cable clamping plates

◆ Plug for plastic-hose

◆ Plug for PA-hose

◆ Plug with angled back shell and cable clamping plates

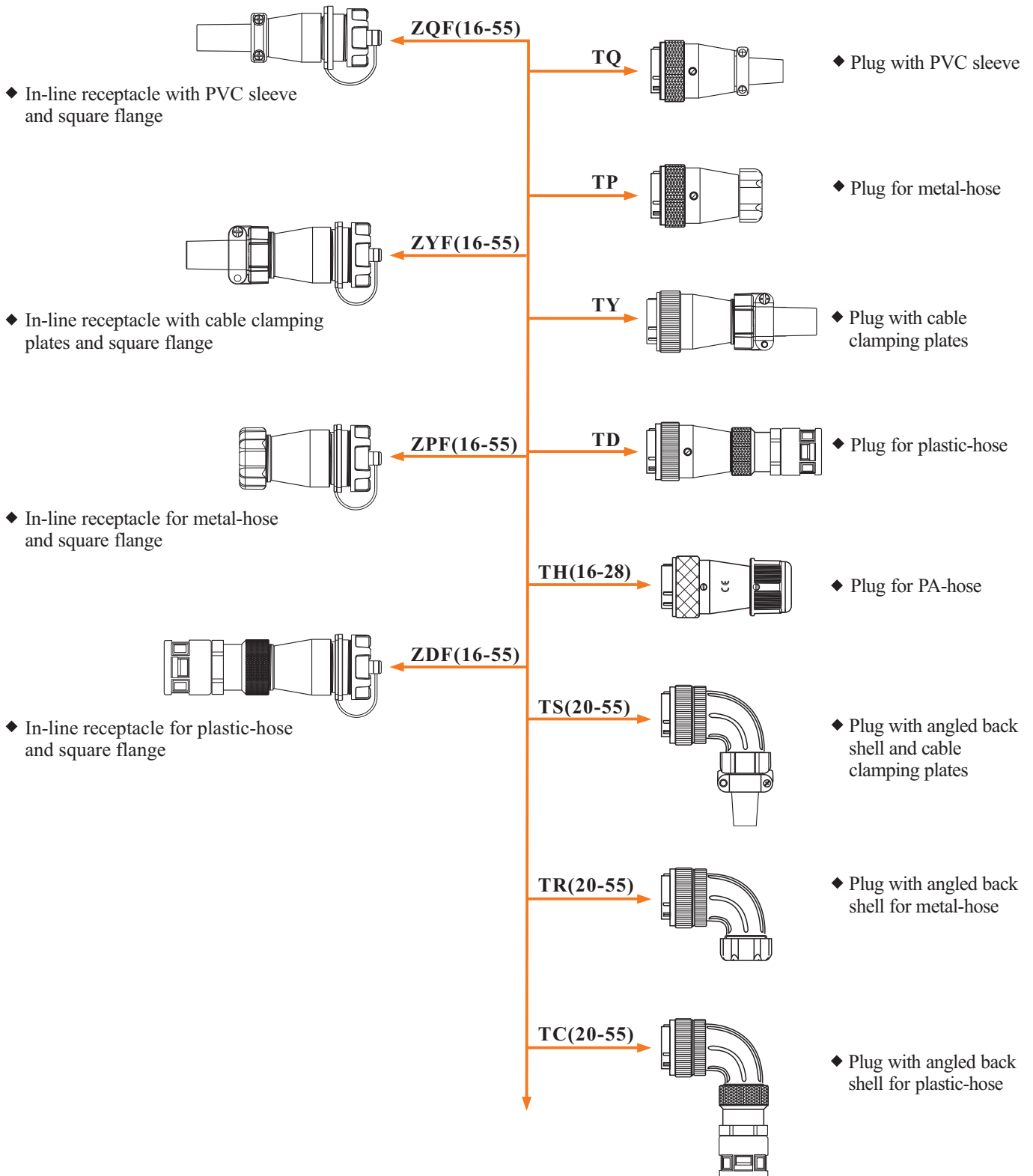
◆ Plug with angled back shell for metal-hose

◆ Plug with angled back shell for plastic-hose

★ Each side can be male or female contact
 ★ Solder contact spec see page P21

★ Screw contact spec see P23
 ★ Crimp contact spec see P22

WS Series Mating diagram (2)

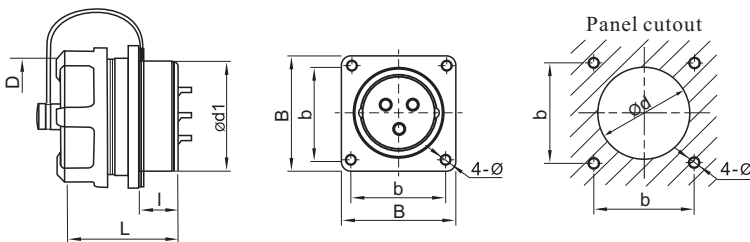


★ Each side can be male or female contact
 ★ Solder contact spec see page P21

★ Screw contact spec see P23
 ★ Crimp contact spec see P22



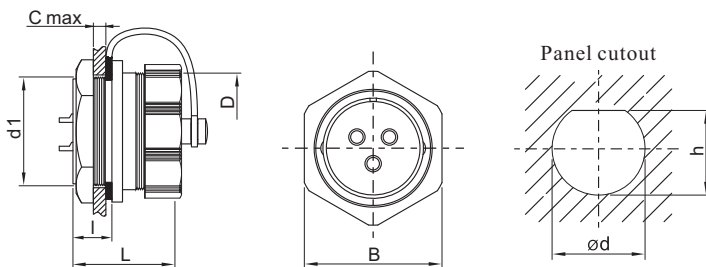
● Square flange mount receptacle: Z



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
D	M18X1	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
I	9.7	10	10	10	14.4	14.2	14.2	14
L	21.6	23	23	23	34	34	34	34
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
ød	16.5	20.5	24.5	28.5	32.5	40.5	48.5	55.5
ø	3.2	3.2	3.2	3.2	3.5	4.5	4.5	4.5

The cap for WS16 is optional, for other models is default configuration

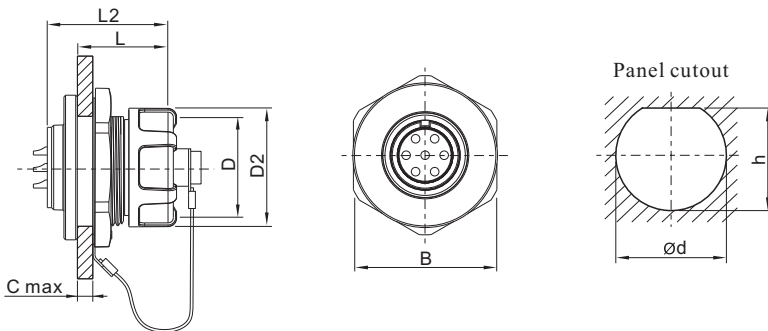
● Round flange receptacle: ZM



Dimension(mm)	WS16	WS20	WS24	WS28
d1	M16X1	M20X1	M24X1	M28X1
D	M18X1	M22X1	M26X1	M30X1
C	5	5	5	5
I	9.7	9.9	10	10.2
L	21.6	23	23	23
B	21.2	25	29.2	33.3
ød	15.9	19.7	23.7	27.7
h	15.3	19.3	23.2	26.9

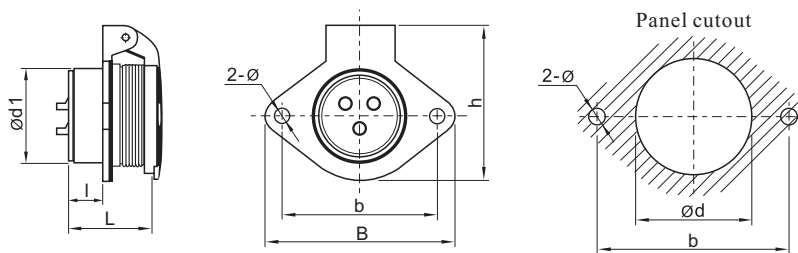


● Front-nut-mount receptacle: ZMQ



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

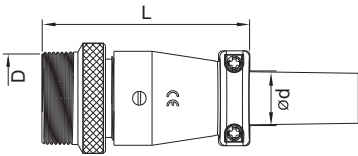
● 2-hole flange receptacle with cap: ZG



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



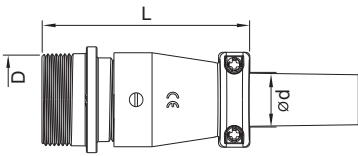
● In-line receptacle with PVC sleeve B: ZQB



Dimension(mm)	WS16	WS20	WS24	WS28
D	M18X1	M22X1	M26X1	M30X1
L	44.5	49	53	55
ød max	10.5	13	13.5	17.5

Optional cap size see P20
PVC sleeve dimension see P20

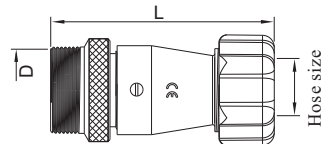
● In-line receptacle with PVC sleeve: ZQ



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 P20
PVC sleeve dimension see P20

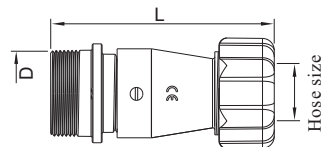
● In-line receptacle for metal-hose B: ZPB



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 P20

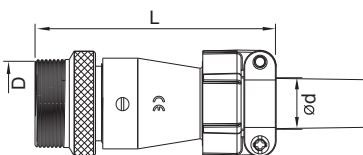
● In-line receptacle for metal-hose: ZP



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" II: 1 1/4"	1 1/4"

Optional cap size see P20

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

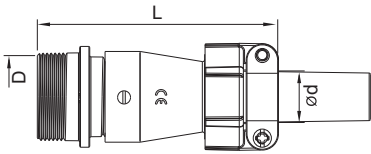


Dimension(mm)	WS16	WS20	WS24	WS28
D	M18X1	M22X1	M26X1	M30X1
L	50.5	60.5	63.5	69
ød max	10.4	13.5	13.5	17

Optional cap size see P20
PVC sleeve dimension see P20



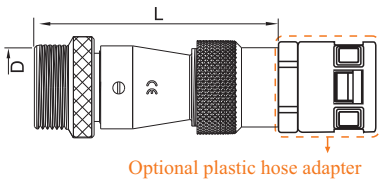
● In-line receptacle with cable clamping plates: ZY



Dimension(mm)	WS32	WS40	WS48	WS55
D	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	86	95	102	117.5
ød max	19	23	I: 23 II: 32	32

Optional cap size see P20
PVC sleeve dimension see P20

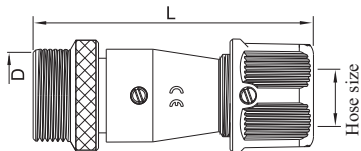
● In-line receptacle for plastic-hose B: ZDB



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
model of plastic hose adapter	WQG-PG7(B)	WQG-PG11(B)	WQG-PG11(B)	WQG-PG16(B)
Hose size	AD10	AD15.8	AD15.8	AD21.2

Optional cap size see P20

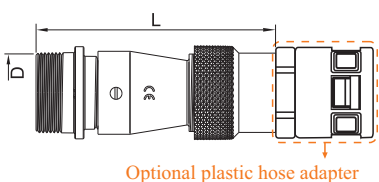
● In-line receptacle for PA-hose B: ZHB



Dimension(mm)	WS16	WS20	WS24	WS28
D	M18X1	M22X1	M26X1	M30X1
L	52.6	63	67	71
Hose size	AD10	AD15.8	AD15.8	AD21.2

Optional cap size see P20

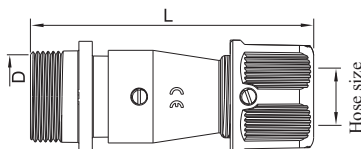
● In-line receptacle for plastic-hose: ZD



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 II: PG36	PG36
model of plastic hose adapter	WQG-PG21(B)	WQG-PG29(B)	I: WQG-PG29(B) II: WQG-PG36(B)	WQG-PG36(B)
Hose size	AD28.5	AD34.5	I: AD34.5 II: AD42.5	AD42.5

Optional cap size see P20

● In-line receptacle for PA-hose: ZH

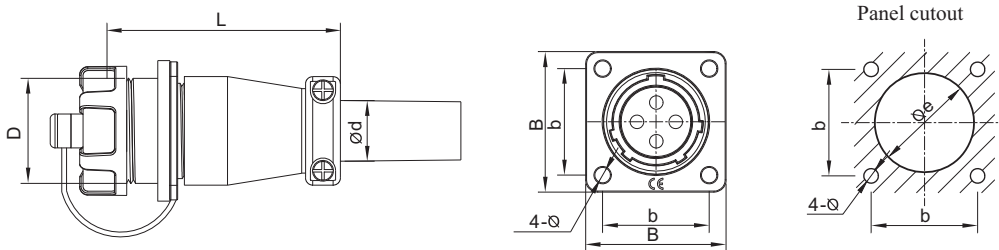


Dimension(mm)	WS16	WS20	WS24	WS28
D	M18X1	M22X1	M26X1	M30X1
L	55	61	66	70
Hose size	AD10	AD15.8	AD15.8	AD21.2

Optional cap size see P20

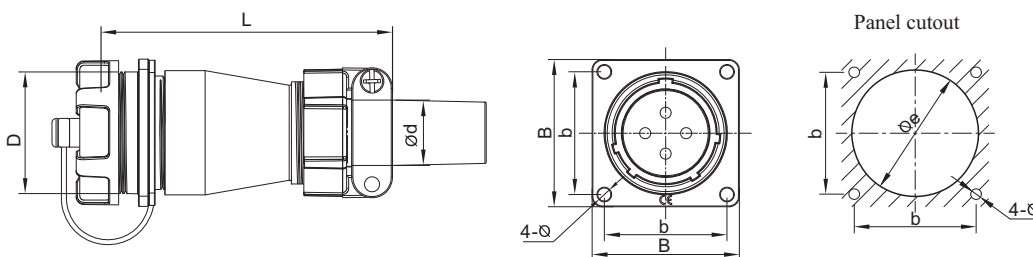


● In-line receptacle with PVC sleeve and square flange: ZQF



Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
D	M18 1	M22 1	M26 1	M30 1	M35 1.5	M44 1.5	M52 1.5	M59 1.5
L	44.5	49	53	55	70.5	76.5	85	97.5
Ød max	10.5	13	13.5	17.5	21.5	26	26	32
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
e	18.5	23	26.5	31	35	43	51	58.2
Ø	3.2	3.2	3.2	3.2	3.5	4.5	4.5	4.5

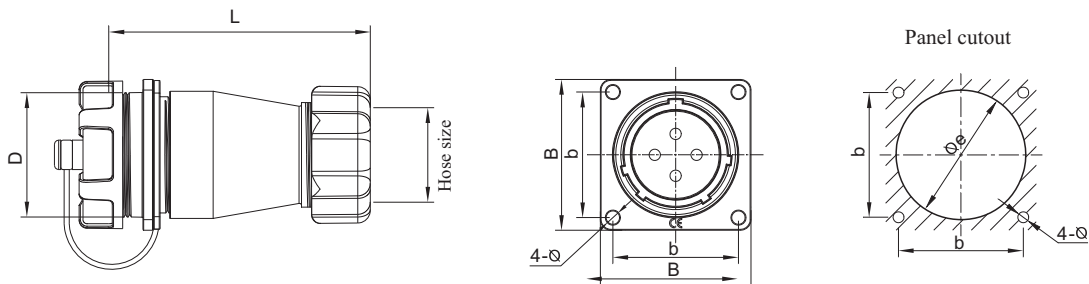
● In-line receptacle with cable clamping plates and square flange :ZYF



Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
D	M18 1	M22 1	M26 1	M30 1	M35 1.5	M44 1.5	M52 1.5	M59 1.5
L	50.5	60.5	63.5	69	86	95	102	117.5
Ød max	10.4	13.5	13.5	17	19	25	I:24, II:32	32
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
e	18.5	23	26.5	31	35	43	51	58.2
Ø	3.2	3.2	3.2	3.2	3.5	4.5	4.5	4.5

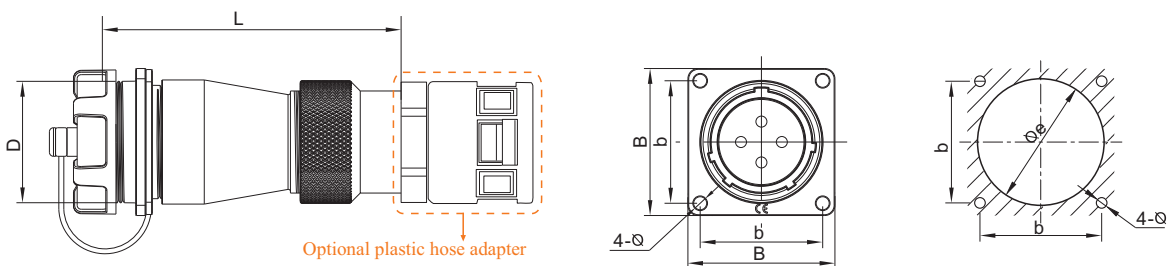


● In-line receptacle for metal-hose and square flange : ZPF



Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
D	M18 1	M26 1	M26 1	M30 1	M35 1.5	M44 1.5	M52 1.5	M59 1.5
L	50	60.5	60.5	64.5	80	87	97	113
Hose size	1/4"	3/8"	3/8"	1/2"	3/4"	1"	I:1", II:1¼"	1¼"
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
e	18.5	23	26.5	31	35	43	51	58.2
Ø	3.2	3.2	3.2	3.2	3.5	4.5	4.5	4.5

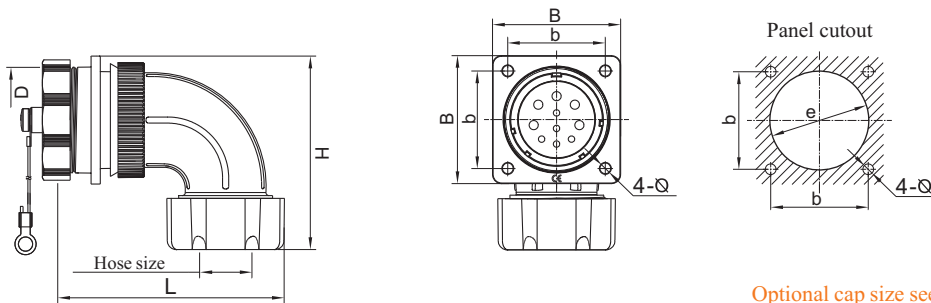
● In-line receptacle for plastic-hose and square flange: ZDF



Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
D	M18X1	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	55.5	64.5	69	75.5	89.5	96.5	105	119.5
Adapter size	PG7	PG11	PG11	PG16	PG21	PG29	I:PG29 II:PG36	PG36
Model of plastic hose adapter	WQG-PG7(B)	WQG-PG11(B)	WQG-PG11(B)	WQG-PG16(B)	WQG-PG21(B)	WQG-PG29(B)	I:WQG-PG29(B) II:WQG-PG36(B)	WQG-PG36(B)
Hose size	AD10	AD15.8	AD15.8	AD21.2	AD28.5	AD34.5	I:AD34.5 II:AD42.5	AD42.5
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
e	18.5	23	26.5	31	35	43	51	58.2
Ø	3.2	3.2	3.2	3.2	3.5	4.5	4.5	4.5



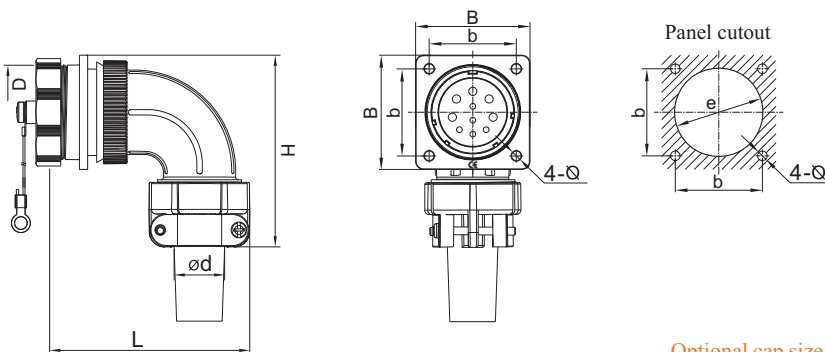
● In-line receptacle with angled back shell for metal-hose and square flange: ZR



Optional cap size see P20

Dimension(mm)	WS20	WS24	WS28	WS32	WS40	WS48	WS55
D	M22 1	M26 1	M30 1	M35 1.5	M44 1.5	M52 1.5	M59 1.5
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"
b	22	26	30	32	40	48	52
B	29	32	36	42	50	58	64
e	26.6	28.5	33	37.5	47	55.5	62.2
Ø	3.2	3.2	3.2	3.5	4.5	4.5	4.5

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

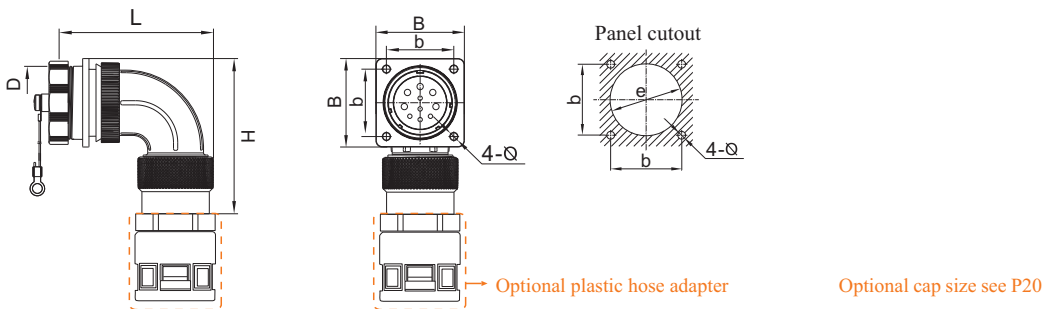


Optional cap size see P20

Dimension(mm)	WS20	WS24	WS28	WS32	WS40	WS48	WS55
D	M22 1	M26 1	M30 1	M35 1.5	M44 1.5	M52 1.5	M59 1.5
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	23	32
b	22	26	30	32	40	48	52
B	29	32	36	42	50	58	64
e	26.6	28.5	33	37.5	47	55.5	62.2
Ø	3.2	3.2	3.2	3.5	4.5	4.5	4.5



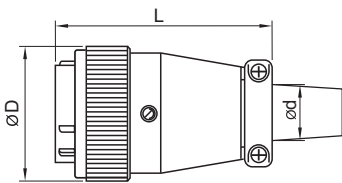
● In-line receptacle with angled back shell for plastic-hose and square flange:ZC



Dimension(mm)	WS20	WS24	WS28	WS32	WS40	WS48	WS55
D	M22 1	M26 1	M30 1	M35 1.5	M44 1.5	M52 1.5	M59 1.5
L	60	61	63	82	88.5	95	112
H	58	60	65	75.5	83	95.5	104
Model of plastic hose adapter	WQG-PG11(B)	WQG-PG11(B)	WQG-PG16(B)	WQG-PG21(B)	WQG-PG29(B)	WQG-PG29(B)	WQG-PG36(B)
Hose size	AD15.8	AD15.8	AD21.2	AD28.5	AD34.5	AD34.5	AD42.5
b	22	26	30	32	40	48	52
B	29	32	36	42	50	58	64
e	26.6	28.5	33	37.5	47	55.5	62.2
Ø	3.2	3.2	3.2	3.5	4.5	4.5	4.5

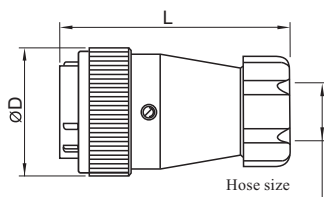


● Plug with PVC sleeve:TQ



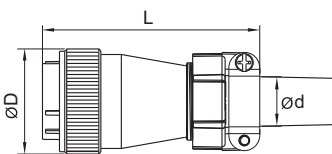
Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
øD	21.5	26	30	34	39.5	49.5	57	64.5
L	44	49	53	55	69	76	85	97
ød max	10.5	13	13.5	17.5	21.5	26	26	32

● Plug for metal-hose:TP



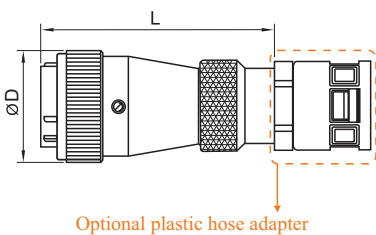
Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
øD	21.5	26	30	34	39.5	49.5	57	64.5
L	48.5	57	61	64	81	86	96.5	112
Hose size	1/4"	3/8"	3/8"	1/2"	3/4"	1"	I: 1" II: 1 1/4"	1 1/4"

● Plug with cable clamping plates: TY



Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
øD	21.5	26	30	34	39.5	49.5	57	64.5
L	53.5	60	64.5	71.5	85.5	93.5	103	121
ød max	10.4	13.5	13.5	17	19	25	I: 24 II: 32	32

● Plug for plastic-hose:TD

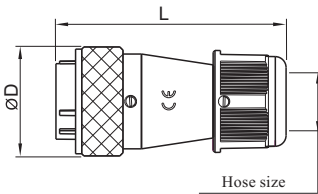


Optional plastic hose adapter

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
model of plastic hose adapter	WQG-PG7(B)	WQG-PG11(B)	WQG-PG11(B)	WQG-PG16(B)	WQG-PG21(B)	WQG-PG29(B)	I: WQG-PG29(B) II: WQG-PG36(B)	WQG-PG36(B)
Hose size	AD10	AD15.8	AD15.8	AD21.2	AD28.5	AD34.5	I: AD34.5 II: AD42.5	AD42.5

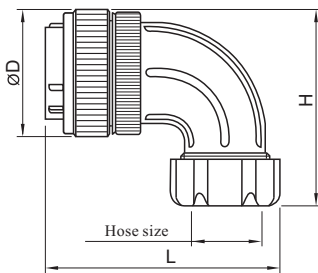


● Plug for PA-hose: TH



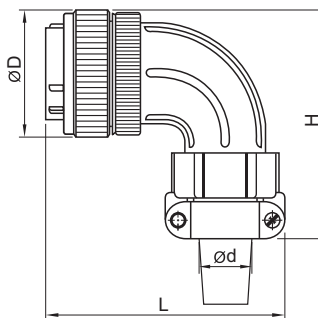
Dimension(mm)	WS16	WS20	WS24	WS28
øD	22	26.2	30	34
L	52	63.5	66.5	69.5
Hose size	AD10	AD15.8	AD15.8	AD21.2

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



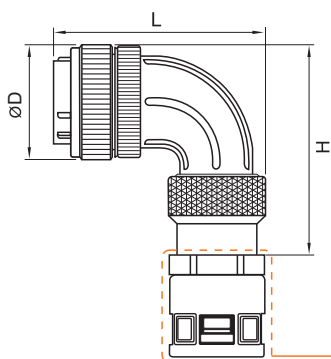
Dimension(mm)	WS20	WS24	WS28	WS32	WS40	WS48	WS55
øD	27.5	31	35	39	49	57	64.5
H	50	51	54.5	63	73	89	97.5
L	60	60	64	82	87.5	94	115
Hose size	3/8"	3/8"	1/2"	3/4"	1"	1"	1 1/4"

● 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	23	32

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

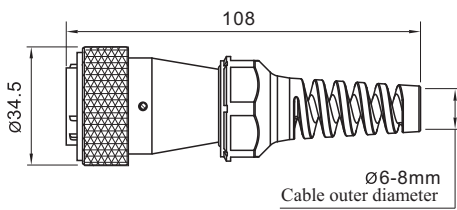


Dimension(mm)	WS20	WS24	WS28	WS32	WS40	WS48	WS55
øD	27.5	31	35	39	49.5	57	64.5
H	57	62	65	71.5	82	96	104
L	59.5	60	63	81	88	94	112
Adapter size	PG11	PG11	PG16	PG21	PG29	PG29	PG36
model of plastic hose adapter	WQG-PG11(B)	WQG-PG11(B)	WQG-PG16(B)	WQG-PG21(B)	WQG-PG29(B)	WQG-PG29(B)	WQG-PG36(B)
Hose size	AD15.8	AD15.8	AD21.2	AD28.5	AD34.5	AD34.5	AD42.5

Optional plastic hose adapter

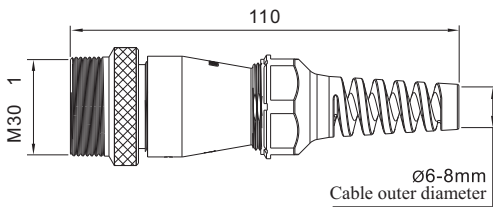


● Plug with strain relief: TX



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

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



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

Solder contact spec

★ Crimp contact spec see P22

★ Screw contact spec see P23

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)	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	0.5, 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 ² /AWG)	≤10/7	≤10/7	≤4/12	≤4/12	≤4/12	≤16/5 ≤0.75/18	≤4/12 ≤0.75/18	≤4/12	≤1.5/16	≤1.5/16	≤1.5/16	≤1.5/16	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18
Wire size for screw termination (mm ² /AWG)	Min:0.5/20 Max:6/10	Min:0.5/20 Max:6/10	Min:0.5/20 Max:1.5/15	Min:0.5/20 Max:1.5/15	Min:0.5/20 Max:1.5/15	/	/	Min:0.5/20 Max:1.5/15	/	/	/	/	/	/	/	/





Material and spec

Coupling	Threaded
Shell material	Zinc alloy with chrome plating
Insert material	PPS, max temperature 260 °C
Contact material	Brass with gold plating
Termination	Solder: Ø1, Ø1.5, Ø2.5, Ø3.5, Ø5.5mm Crimp: Ø1, Ø1.5, Ø2.5, Ø3.5, Ø5.5, Ø10 mm Screw: Ø2.5, Ø3, Ø3.5
Mating cycle	500
Temperature range	-40°C~+85°C

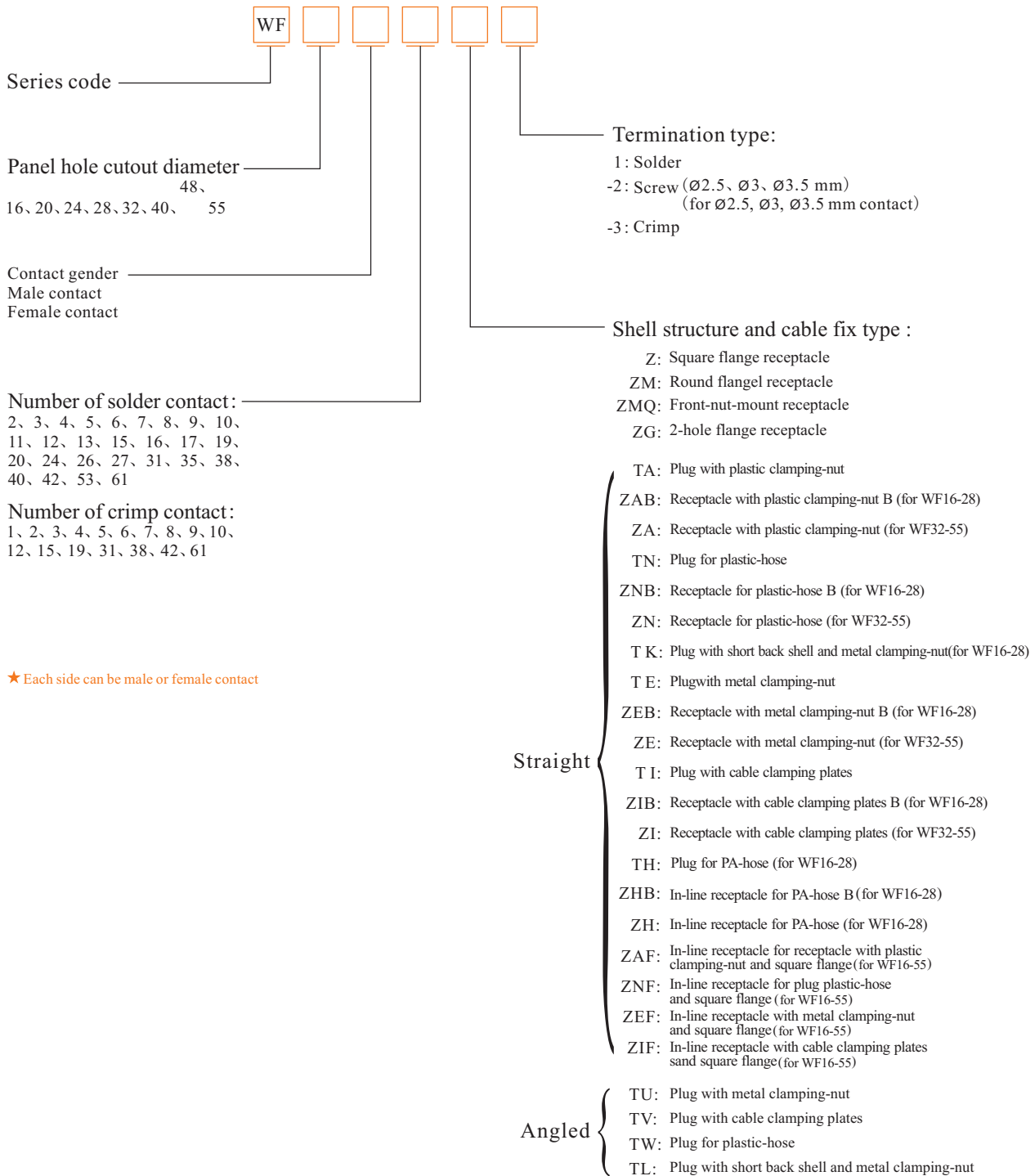
★ Solder contact spec see page P21 ★ Crimp contact spec see P22 ★ Screw contact spec see P23

● **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

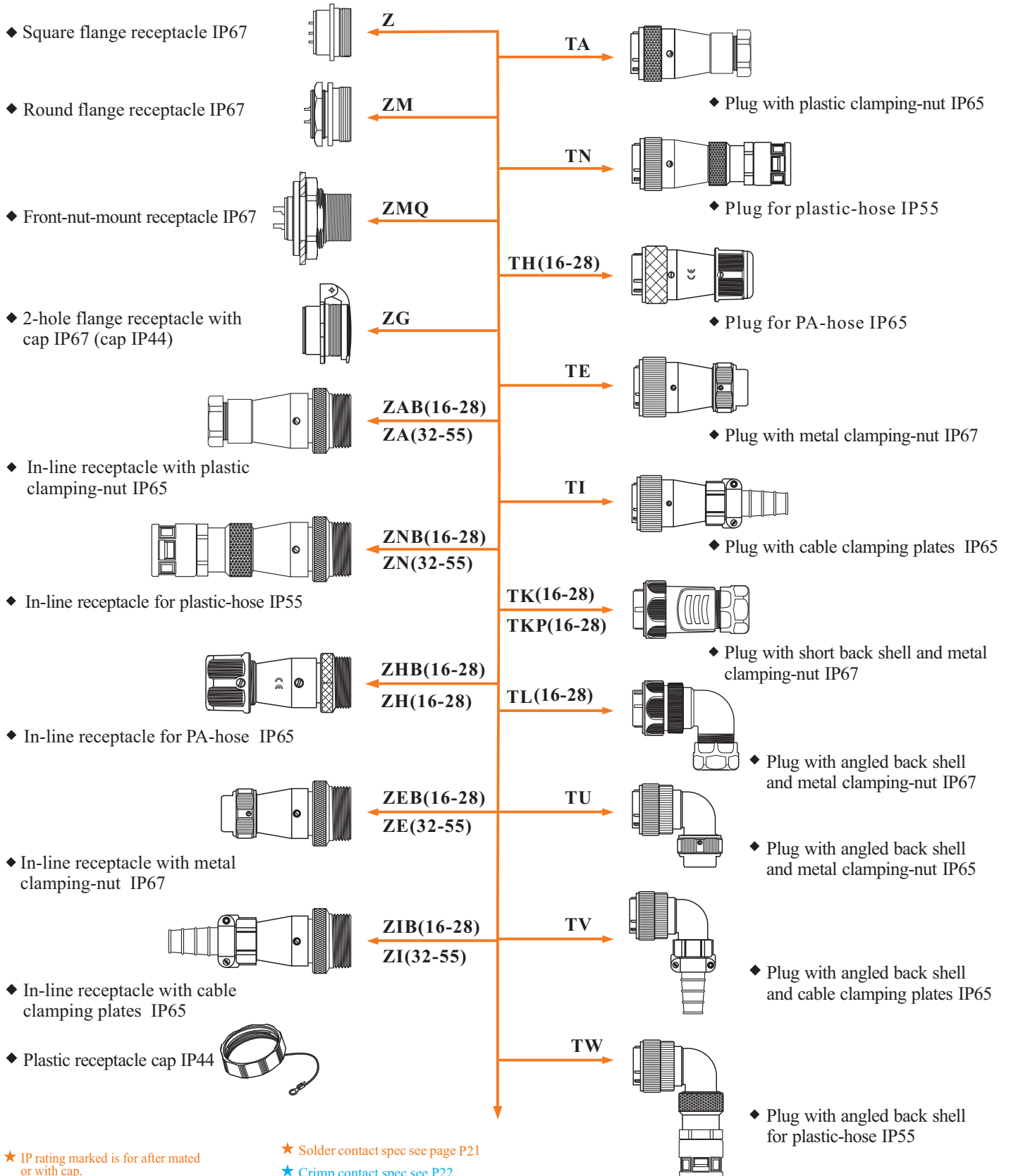
WF Series

Part number system



★ Each side can be male or female contact

WF Series Mating diagram (1)



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

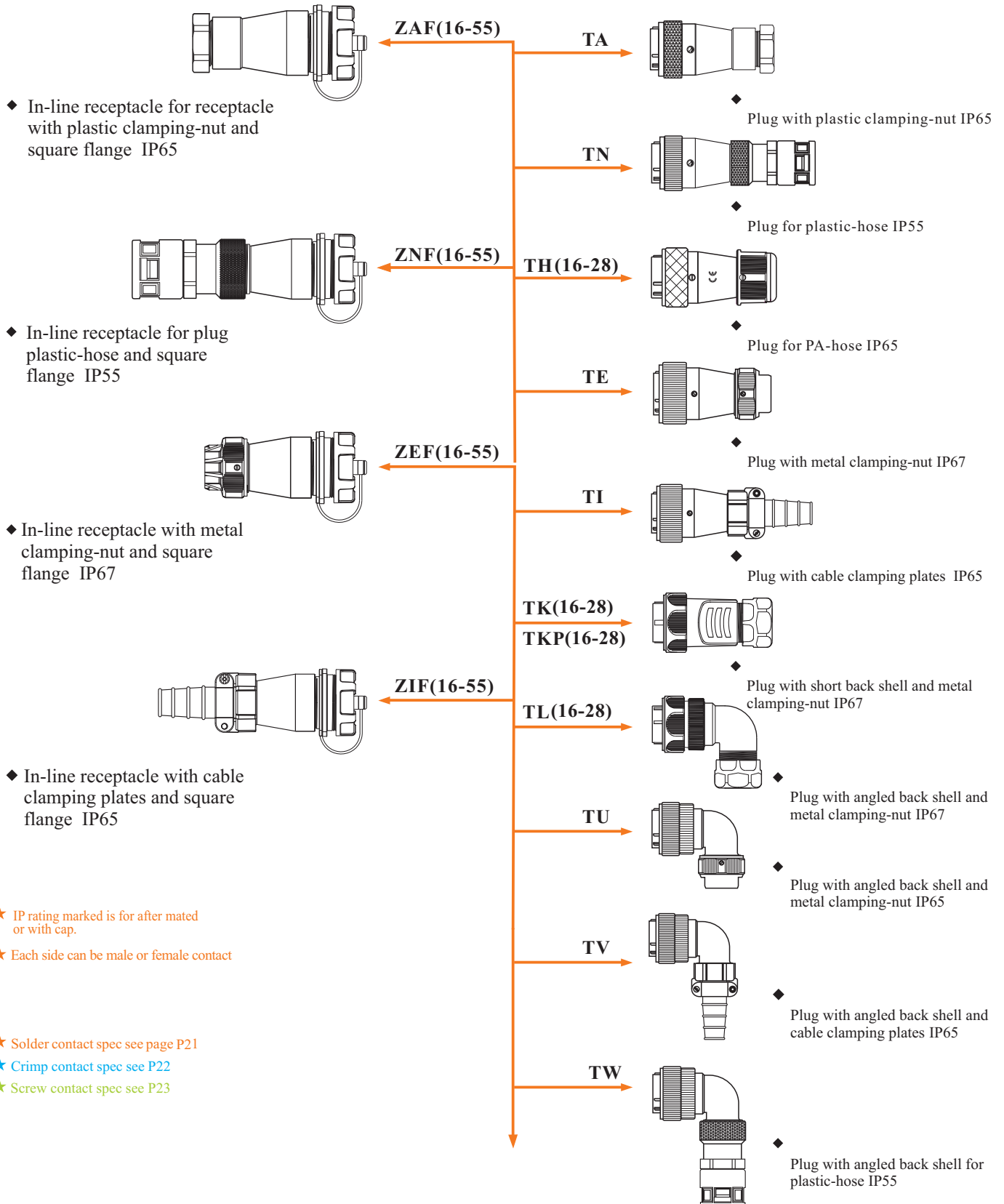
★ Solder contact spec see page P21

★ Crimp contact spec see P22

★ Each side can be male or female contact

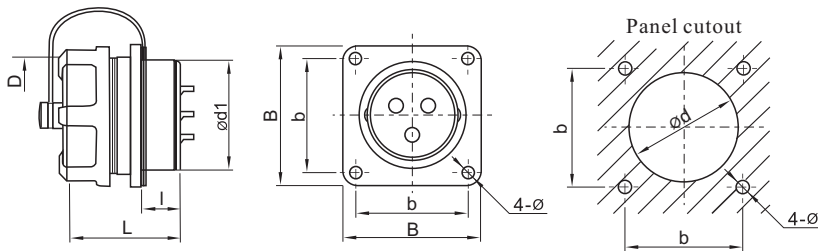
★ Screw contact spec see P23

WF Series Mating diagram (2)



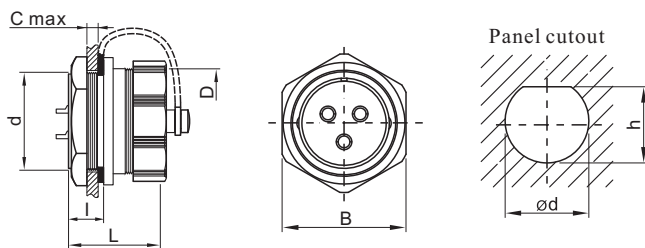


● Square flange receptacle: Z IP67



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

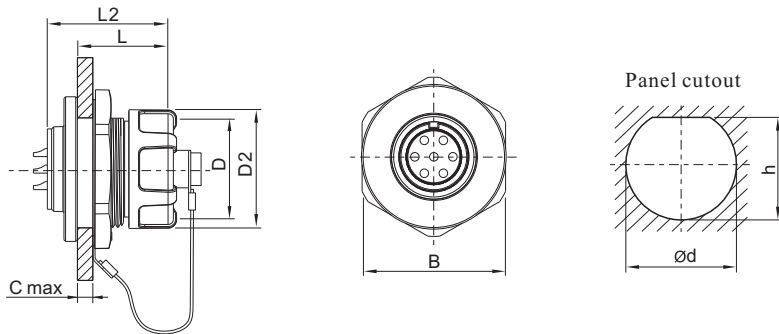
● Round flange receptacle: ZM IP67



Dimension(mm)	WF16	WF20	WF24	WF28
d	M16X1	M20X1	M24X1	M28X1
D	M18X1	M22X1	M26X1	M30X1
C	5	5	5	5
I	9.7	9.9	10	10.2
L	21.6	23	23	23
B	21.2	25.5	29.2	33.3
ød	15.9	19.7	23.7	27.7
h	15.3	19.3	23.2	26.9

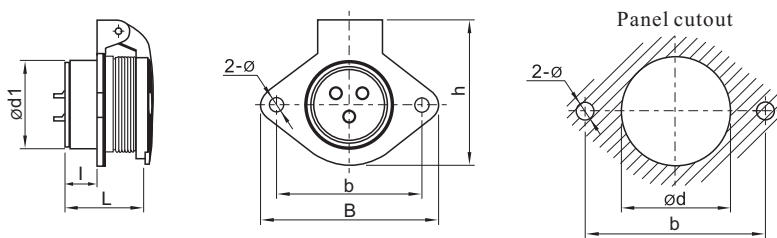


● Front-nut-mount panel receptacle: ZMQ IP67



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

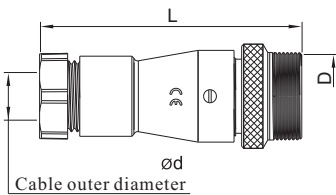
● 2-hole flange receptacle with cap: ZG IP67(cap IP44)



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



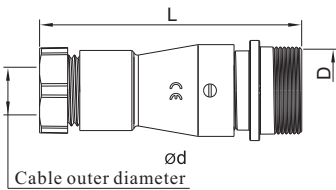
● In-line receptacle with plastic clamping-nut B: ZAB IP65



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 P20

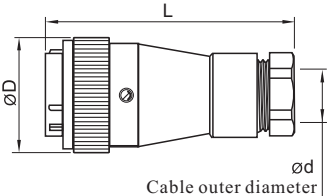
● In-line receptacle with plastic clamping-nut: ZA IP65



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

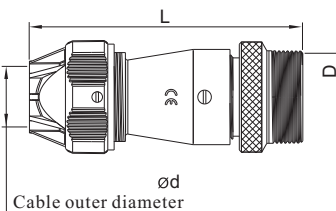
Optional cap size see P20

● 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

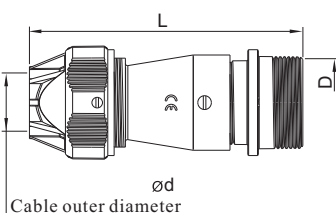
● In-line receptacle with metal clamping-nut B: ZEB IP67



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 P20

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

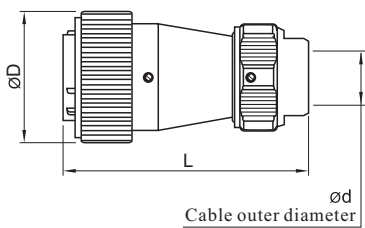


Dimension(mm)	WF32	WF40	WF48	WF55
D	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	90.5	99.5	108	134.5
ød	15.5-17	18-20	I: 18-20 II: 24 526	24.5-26

Optional cap size see P20

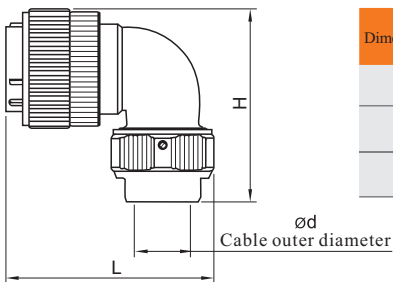


● Plug with metal clamping-nut: TE IP67



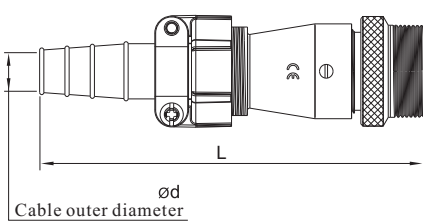
Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
øD	22	26.2	30	34.5	39.5	49.5	57	64.5
L	54.5	62.5	65	68	88	100	110	131.5
ød	5-6.5	9-10.5	9-10.5	10.5-12.5	15.5-17	18-20	I:18-20 II:24.5-26	24.5-26

● 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
ød	5-6.5	9-10.5	9-10.5	10.5-12.5	15.5-17	18-20	24.5-26	24.5-26

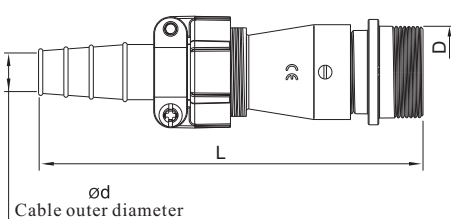
● In-line receptacle with cable clamping plates B: ZIB IP65



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

Optional cap size see P20

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

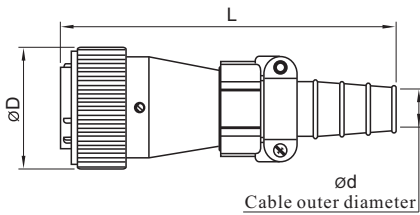


Dimension(mm)	WF32	WF40	WF48	WF55
D	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	118.5	130	137	163
ød	13-15.6	15.5-18.8	I :15.5-18.8 II :24-28	24-28

Optional cap size see P20

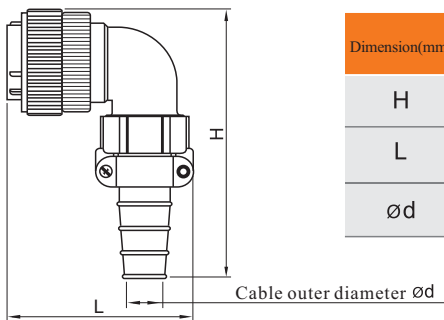


● Plug with cable clamping plates: TI IP65



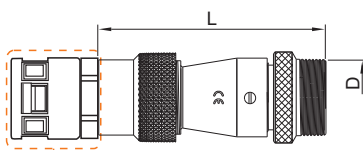
Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
øD	22	26	30	34.5	39.5	49.5	57	64.5
L	72.5	87	92	100.5	118.5	130.5	140	163
ød	7-8	8-10.5	8-10.5	11.5-13.6	13-15.6	15.5-18.8	I:15.5-18.8 II:24-28	24-28

● 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

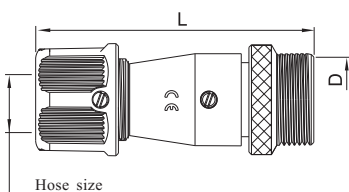


Dimension(mm)	WF16	WF20	WF24	WF28
D	M18X1	M22X1	M26X1	M30X1
L	54.5	64	67	73
Adapter size	PG7	PG11	PG11	PG16
model of plastic hose adapter	WQG-PG7(B)	WQG-PG11(B)	WQG-PG11(B)	WQG-PG16(B)
Hose size	AD10	AD15.8	AD15.8	AD21.2

Optional plastic hose adapter

Optional cap size see P20

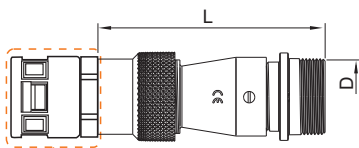
● In-line receptacle for PA-hose B: ZHB IP65



Dimension(mm)	WF16	WF20	WF24	WF28
D	M18X1	M22X1	M26X1	M30X1
L	52	62.5	66.5	70
Hose size	AD10	AD15.8	AD15.8	AD21.2



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

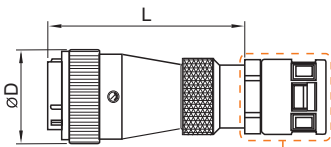


Optional plastic hose adapter

Dimension(mm)	WF32	WF40	WF48	WF55
D	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	86.5	95	104	120
Adapter size	PG21	PG29	I: PG29 II: PG36	PG36
model of plastic hose adapter	WQG-PG21(B)	WQG-PG29(B)	I: WQG-PG29(B) II: WQG-PG36(B)	WQG-PG36(B)
Hose size	AD28.5	AD34.5	I: AD34.5 II: AD42.5	AD42.5

Optional cap size see P20

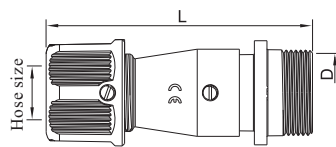
● Plug for plastic-hose: TN IP55



Optional plastic hose adapter

Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
ØD	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	I: PG29 II: PG36	PG36
model of plastic hose adapter	WQG-PG7(B)	WQG-PG11(B)	WQG-PG11(B)	WQG-PG16(B)	WQG-PG21(B)	WQG-PG29(B)	I: WQG-PG29(B) II: WQG-PG36(B)	WQG-PG36(B)
Hose size	AD10	AD15.8	AD15.8	AD21.2	AD28.5	AD34.5	I: AD34.5 II: AD42.5	AD42.5

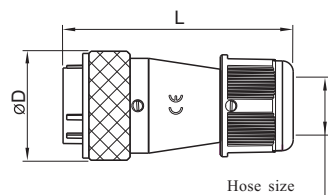
● In-line receptacle for PA-hose: ZH IP65



Dimension(mm)	WF16	WF20	WF24	WF28
D	M12X1	M22X1	M26X1	M30X1
L	54	62	66	70
Hose size	AD10	AD15.8	AD15.8	AD21.2

Optional cap size see P20

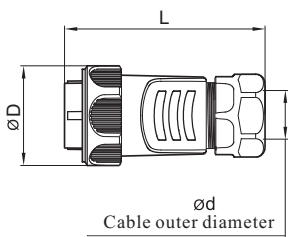
● Plug for PA-hose: TH IP65



Dimension(mm)	WF16	WF20	WF24	WF28
D	22	26.5	30	34.4
L	51	62.5	65.5	68.5
Hose size	AD10	AD15.8	AD15.8	AD21.2

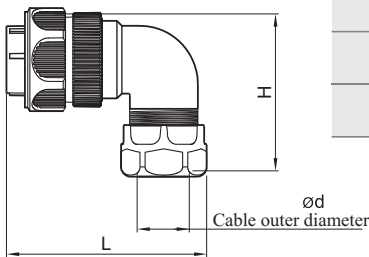


● Plug with short back shell and metal clamping-nut: TK TKP IP67



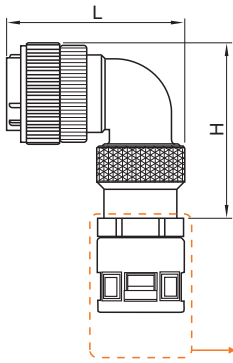
Dimension(mm)	WF16	WF20	WF24	WF28
ØD	21.8	27.7	31.9	36.6
L	50	60	64	70
ød	5-8	10-14	10-14	10-16

● Plug with angled back shell and metal clamping-nut: TL IP67



Dimension(mm)	WF16	WF20	WF24	WF28
H	38	47	53	57
L	47	56	62	65
ød	5-8	10-14	10-14	10-16

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

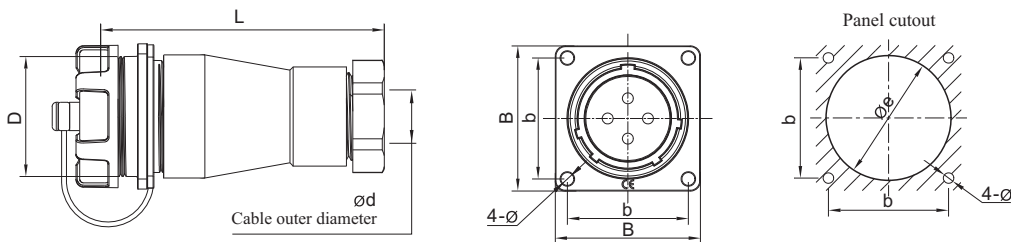


Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
H	42	53.5	54.5	60	67	80	89.5	95
L	47	56.5	57.5	61	82	88.5	95	106
Adapter size	PG7	PG11	PG11	PG16	PG21	PG29	PG29	PG36
model of plastic hose adapter	WQG-PG7(B)	WQG-PG11(B)	WQG-PG11(B)	WQG-PG16(B)	WQG-PG21(B)	WQG-PG29(B)	WQG-PG29(B)	WQG-PG36(B)
Hose size	AD10	AD15.8	AD15.8	AD21.2	AD28.5	AD34.5	AD34.5	AD42.5

Optional plastic hose adapter

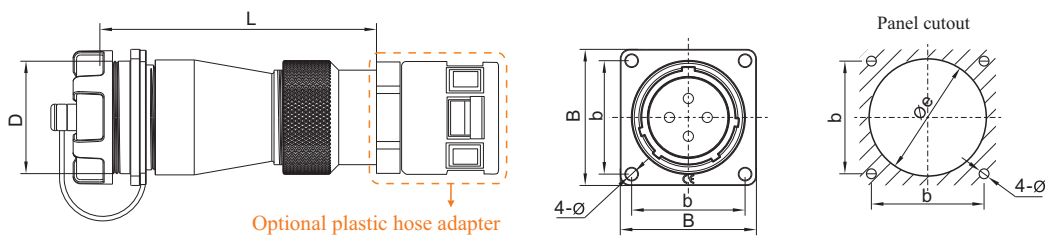


● In-line receptacle for receptacle with plastic clamping-nut and square flange: ZAF IP65



Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
D	M18X1	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	53.5	65	68	73.5	89	109	108.5	128
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
e	18.5	23	26.5	31	35	43	51	58.2
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
ø	3.2	3.2	3.2	3.2	3.5	4.5	4.5	4.5

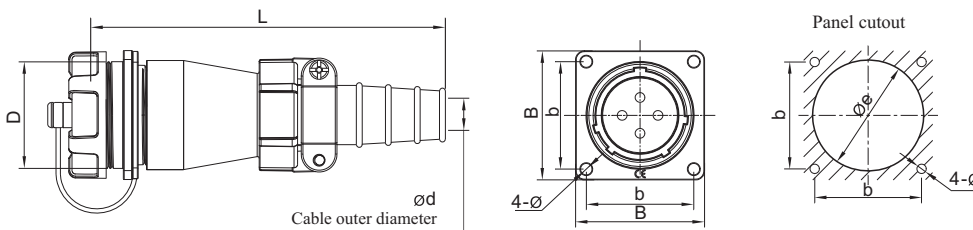
● In-line receptacle for plug plastic-hose and square flange: ZNF IP55



Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
D	M18X1	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	54.5	64	67	73	86.5	95	104	120
Adapter size	PG7	PG11	PG11	PG16	PG21	PG29	I:PG29 II:PG36	PG36
Model of plastic hose adapter	WQG-PG7(B)	WQG-PG11(B)	WQG-PG11(B)	WQG-PG16(B)	WQG-PG21(B)	WQG-PG29(B)	WQG-PG29(B) WQG-PG36(B)	WQG-PG36(B)
Hose size	AD10	AD15.8	AD15.8	AD21.2	AD28.5	AD34.5	I:AD34.5 II:AD42.5	AD42.5
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
e	18.5	23	26.5	31	35	43	51	58.2
ø	3.2	3.2	3.2	3.2	3.5	4.5	4.5	4.5

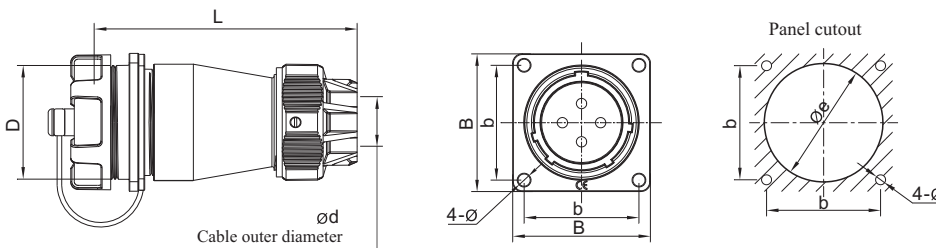


● In-line receptacle with cable clamping plates and square flange: ZIF IP65



Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
D	M18X1	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	73.5	90	93.5	104	118.5	130	137	163
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
e	18.5	23	26.5	31	35	43	51	58.2
ød	7-8	8-10.5	8-10.5	11.5-13.6	13-15.6	15.5-18.8	I:15.8-18.8 II:24-28	24-28
ø	3.2	3.2	3.2	3.2	3.5	4.5	4.5	4.5

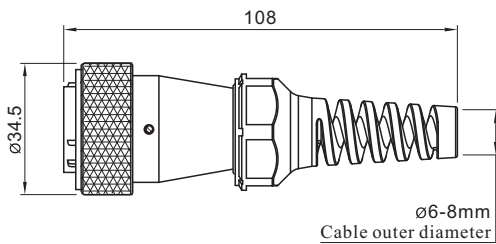
● In-line receptacle with metal clamping-nut and square flange: ZEF IP67



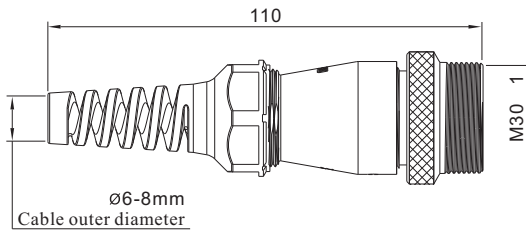
Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
D	M18X1	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	55	63	66.5	70	90.5	99.5	108.5	134.5
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
e	18.5	23	26.5	31	35	43	51	58.2
ød	I:3.5-5 II:5-6.5	9-10.5	9-10.5	10.5-12.5	I:13.5-15.5 II:15.5-17	I:15.5-17 II:18-20	I:18-20 II:24.5-26 III:22.5-24.5	I:22.5-24.5 II:24.5-26
ø	3.2	3.2	3.2	3.2	3.5	4.5	4.5	4.5



● Plug with strain relief: TX IP67



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



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

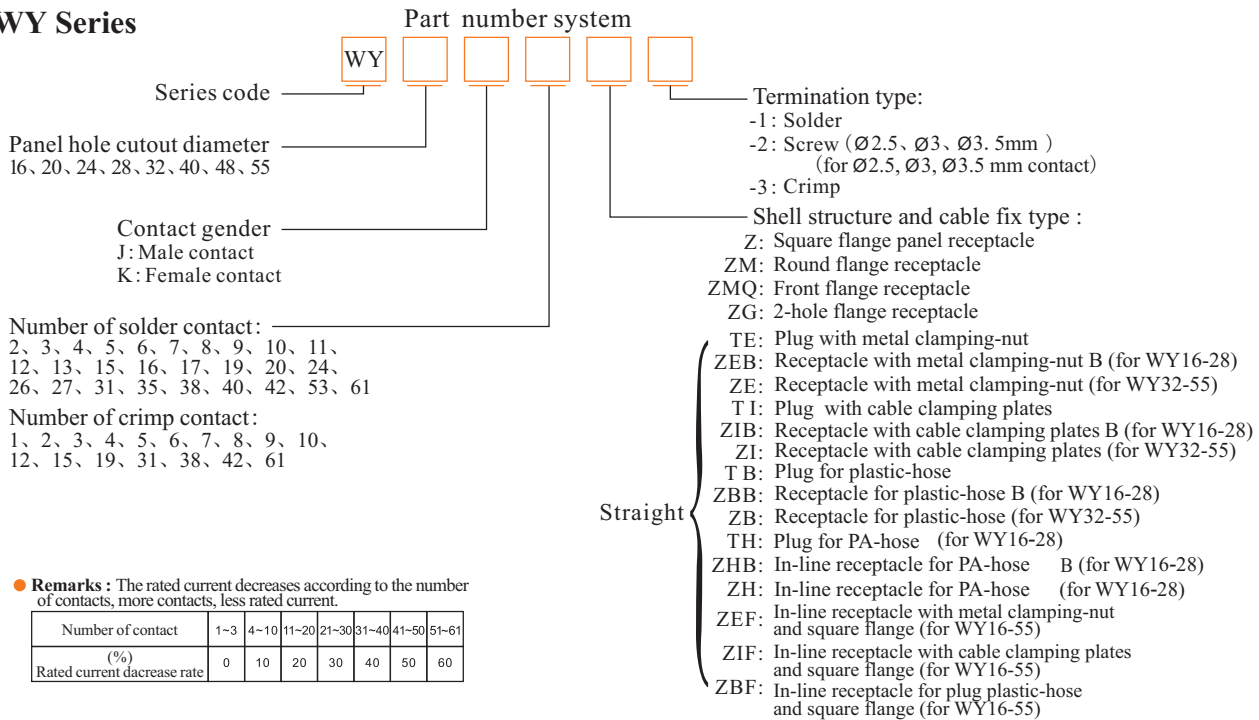
★ Crimp contact spec see P22
 ★ Screw contact spec see P23

Solder contact spec

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)	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	0.5/5	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 ² /AWG)	≤10 / 7	≤10 / 7	≤4 / 12	≤4 / 12	≤4 / 12	≤16 / 5 ≤0.75 / 18	≤4 / 12 ≤0.75 / 18	≤4 / 2	≤1.5 / 16	≤1.5 / 16	≤1.5 / 16	≤1.5 / 16	≤0.75 / 18	≤0.75 / 18	≤0.75 / 18	≤0.75 / 18
Wire size for screw termination (mm ² /AWG)	Min:0.5/20 Max:6/10	Min:0.5/20 Max:6/10	Min:0.5/20 Max:1.5/15	Min:0.5/20 Max:1.5/15	Min:0.5/20 Max:1.5/15	/	/	Min:0.5/20 Max:1.5/15	/	/	/	/	/	/	/	/

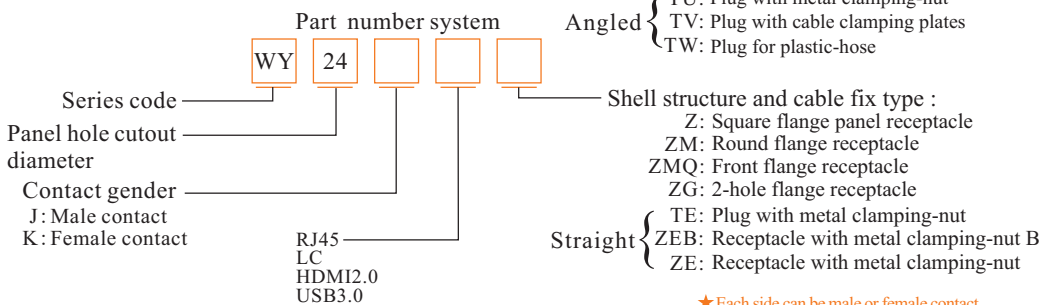


● **WY Series**



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

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

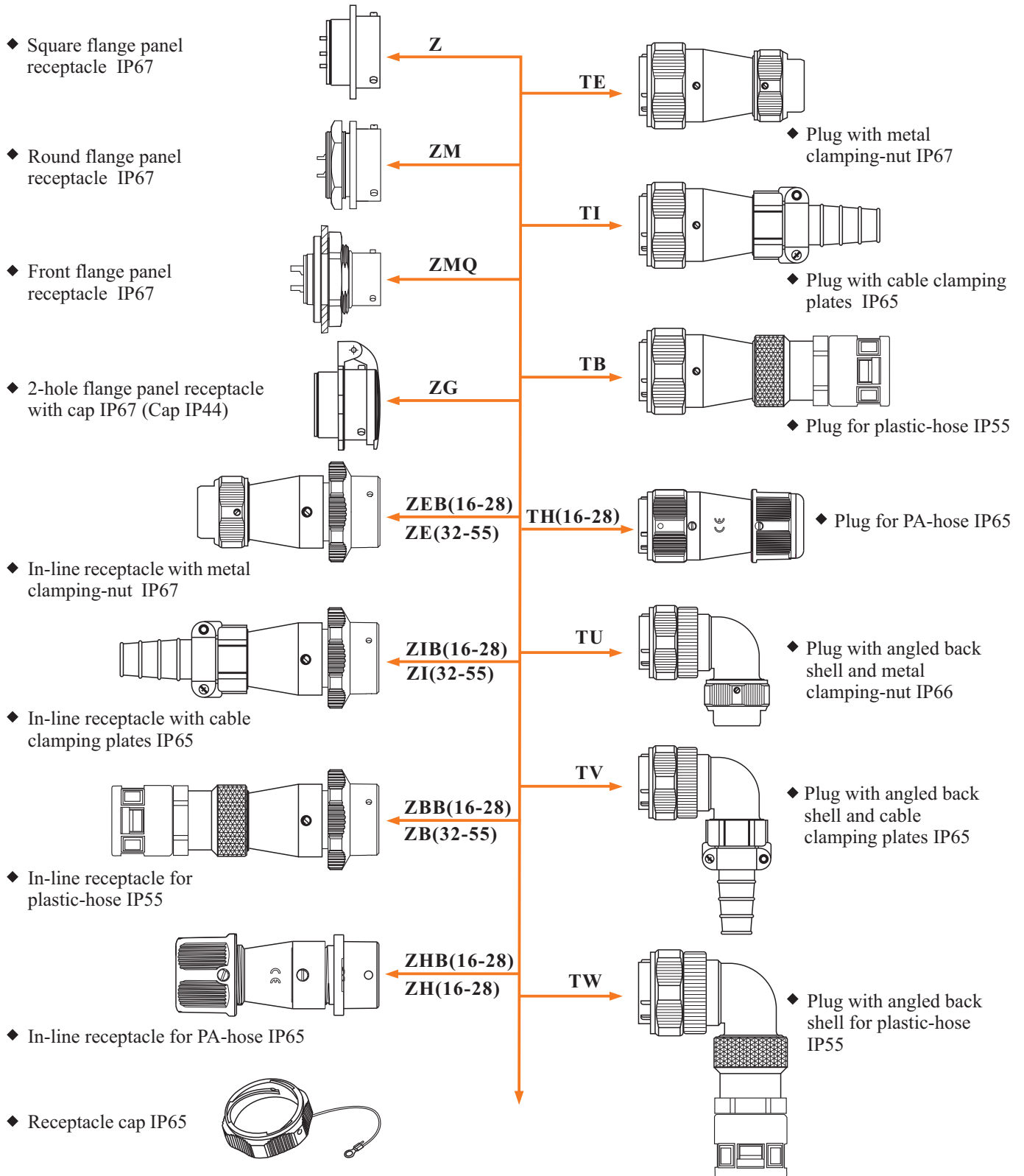


★ Each side can be male or female contact

Material and spec

Coupling	Bayonet
Shell material	Zinc alloy with chrome plating
Insert material	PPS, max temperature 260 °C
Contact material	Brass with gold plating
Termination	Solder: Ø0.7, Ø1, Ø1.5, Ø1.6, Ø2.5, Ø3.5, Ø5.5mm; Screw: Ø2.5, Ø3, Ø3.5mm; Crimp: Ø1, Ø1.5, Ø2.5, Ø3.5, Ø5.5, Ø10mm
Mating cycle	500 USB:1500
Temperature range	-40°C~+85°C Signal, Data:-20°C~+70°C
Transmission Speed	Cat 5: 100Mbps cat 6: 100-1000Mbps

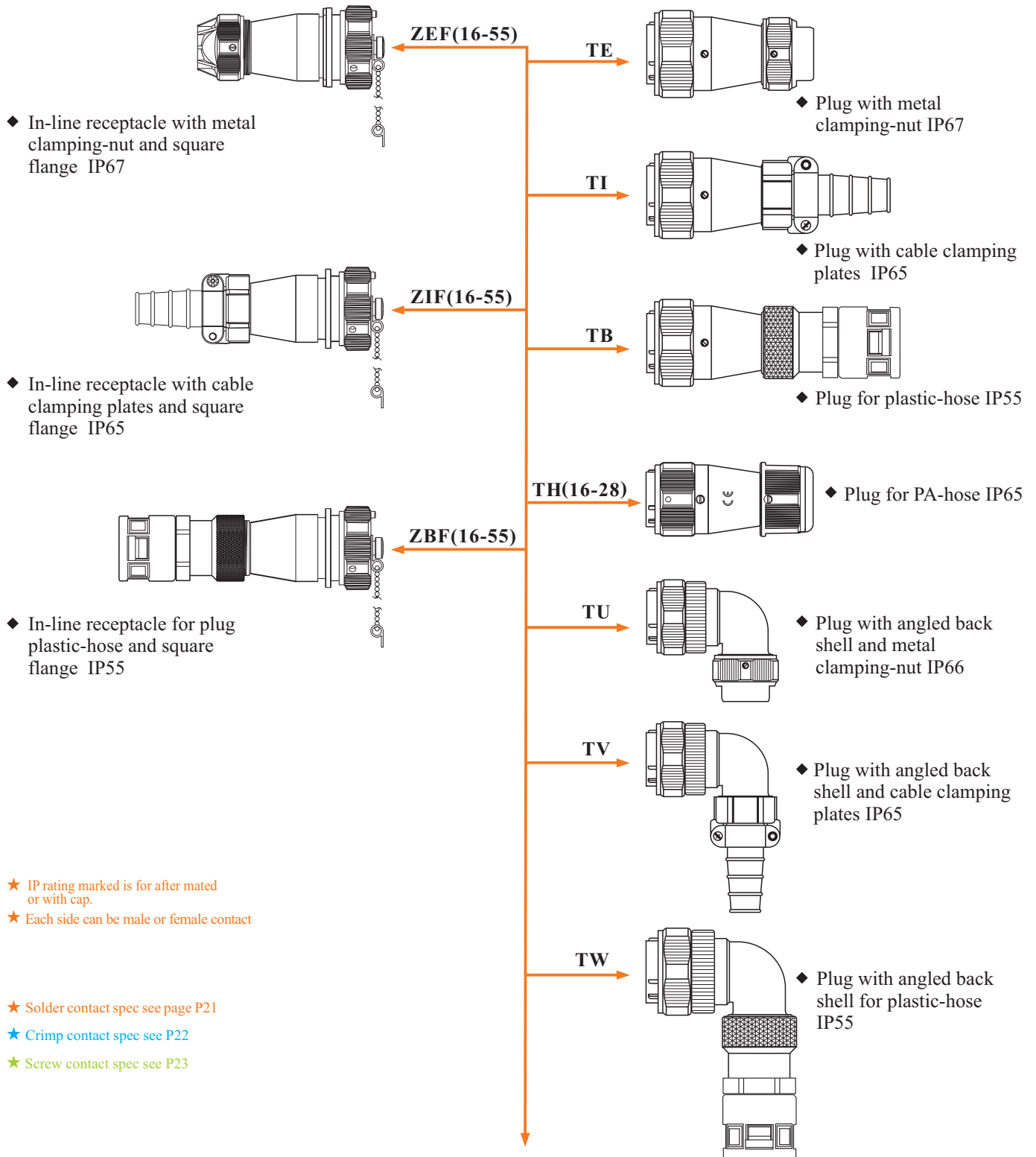
WY Series Mating diagram (1)



★ IP rating marked is for after mated or with cap.
★ Each side can be male or female contact

★ Solder contact spec see page P21
★ Crimp contact spec see P22
★ Screw contact spec see P23

WY Series Mating diagram (2)





WY12

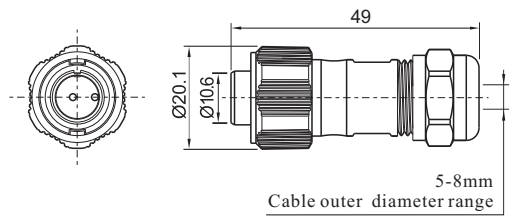
WY12 Series



Cable connector
Mate with WY12-Z, WY12-ZM, WY12-ZMQ, WY12-ZE

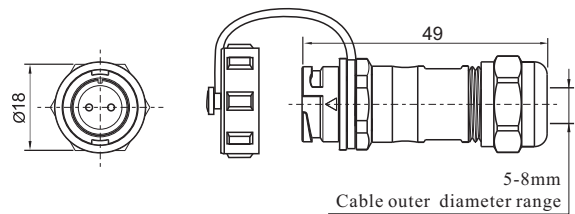
WY12J_TE WY12K_TE

Male contact Number of contact
Female contact



In-line cable connector
Mate with WY12-TE

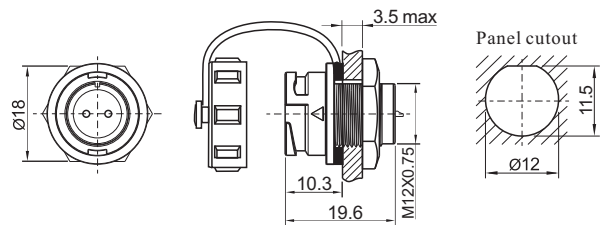
WY12J_ZE WY12K_ZE



Rear-nut mount
Mate with WY12-TE

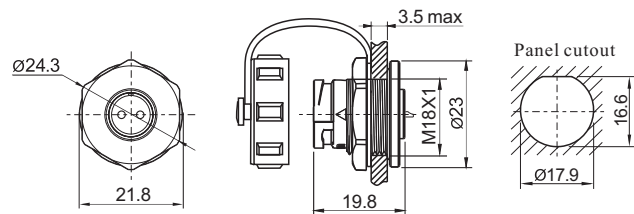
WY12J_ZM WY12K_ZM

Number of contact



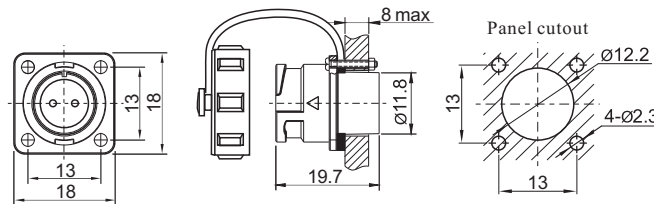
Front-nut mount
Mate with WY12-TE

WY12J_ZMQ WY12K_ZMQ



Square flange
Mate with WY12-TE

WY12J_Z WY12K_Z



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)	$\varnothing 1.6 \times 2$	$\varnothing 1.6 \times 3$	$\varnothing 1 \times 4$	$\varnothing 1 \times 5$	$\varnothing 1 \times 6$	$\varnothing 1 \times 7$	$\varnothing 0.7 \times 9$
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 (m Ω)	2	2	5	5	5	5	10
Wire size (mm ² /AWG)	$\leq 1.5/16$	$\leq 1.5/16$	$\leq 0.75/18$	$\leq 0.75/18$	$\leq 0.75/18$	$\leq 0.75/18$	$\leq 0.5/20$

WY24 Series

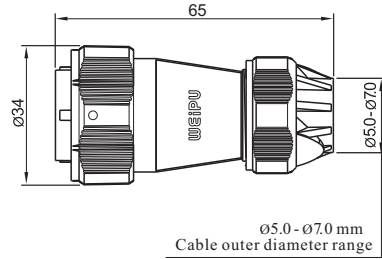


WY24
Signal&Data



Plug with metal clamping-nut
Mate with WY24KRJ45Z

WY24JRJ45TE

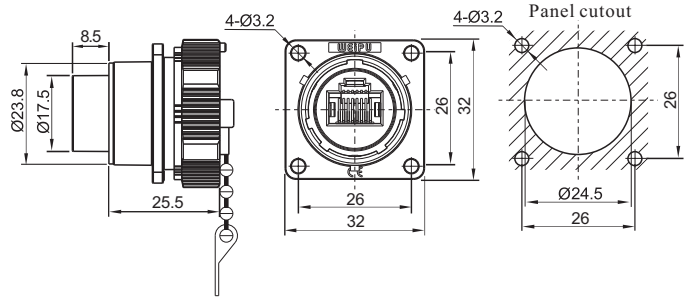


WY24KRJ45_Z

Blank: CAT5
-C6: CAT6



Square flange receptacle
Mate with WY24JRJ45TE

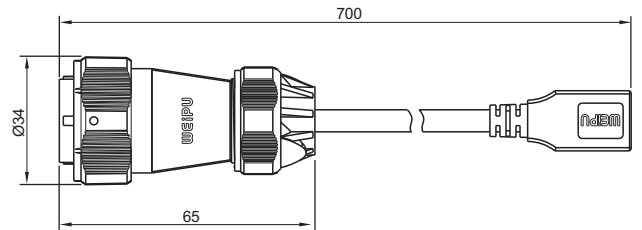


WY24JUSB3.0TE-

Cable length:
1.0m
3.0m
5.0m



Plug with metal clamping-nut
Mate with WY24KUSB3.0Z

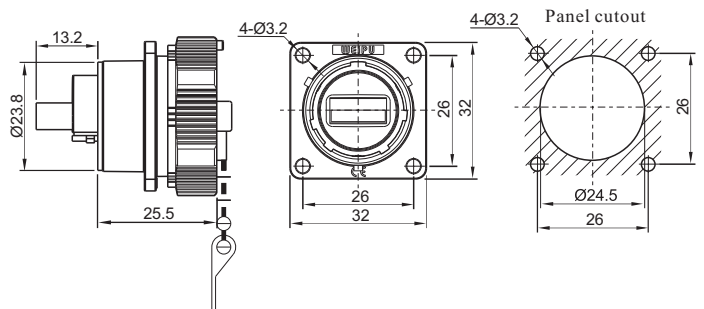


★ The cable length can be customized, but not more than 3 meters.

WY24KUSB3.0Z



Square flange receptacle
Mate with WY24JUSB3.0TE



NEW

WY24
Signal&Data

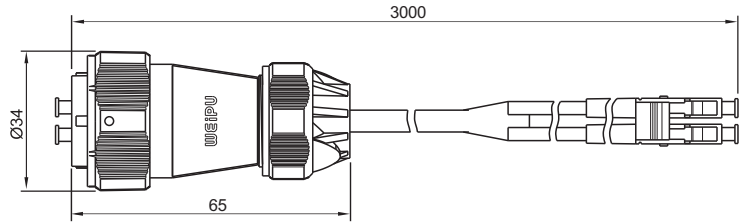
WY24 Series



Plug with metal clamping-nut
Mate with WY24KLCZ

WY24JLCTE-

Cable length:
1.0m
3.0m
5.0m

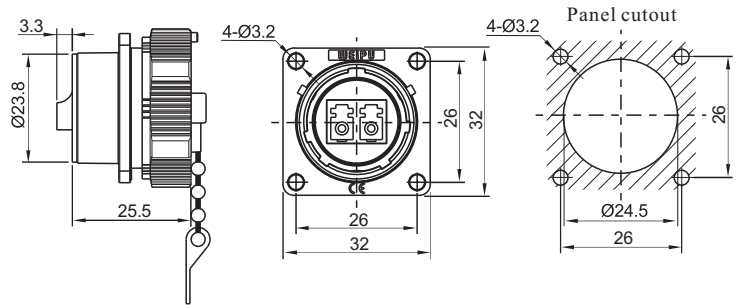


★ Cable length can be customized



Square flange receptacle
Mate with WY24JLCTE

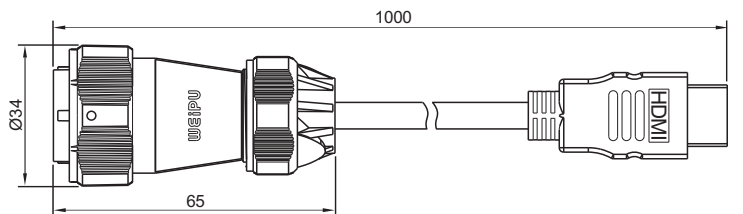
WY24KLCZ



Plug with metal clamping-nut
Mate with WY24KHDMI2.0Z

WY24JHDMI2.0TE-

Cable length:
1.0m
3.0m
5.0m

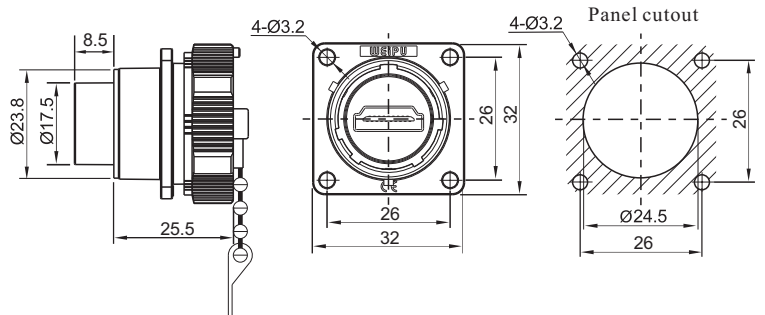


★ The cable length can be customized, but not more than 5 meters.



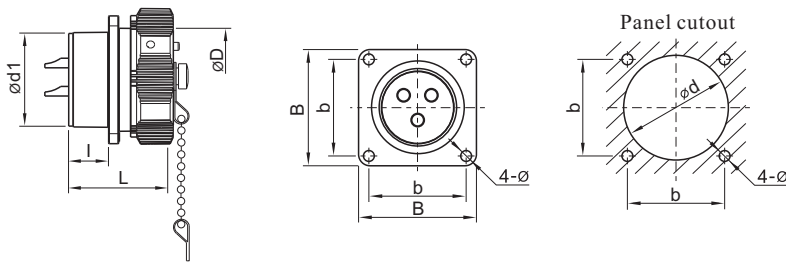
Square flange receptacle
Mate with WY24JHDMI2.0TE

WY24KHDMI2.0Z



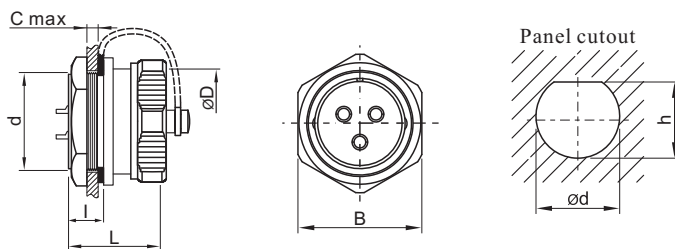


● Square flange panel receptacle: Z IP67



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
l	9.7	10	10	10	14.4	14.2	14.2	14
L	21.6	23	23	23	34	34	34	34
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
d	16.5	20.5	24.5	28.5	32.5	40.5	48.5	55.5
Ø	3.2	3.2	3.2	3.2	3.5	4.5	4.5	4.5

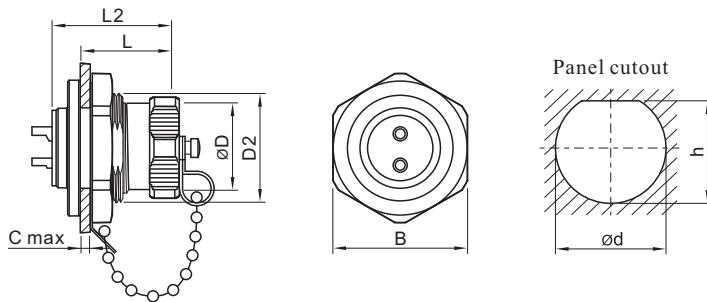
● Round flange panel receptacle: ZM IP67



Dimension(mm)	WY16	WY20	WY24	WY28
d	M16X1	M20X1	M24X1	M28X1
D	18	22	26	30
C	5	5	5	5
l	9.7	9.9	10	10.2
L	21.6	23	23	23
B	21.2	25.5	29.2	33.3
Ød	15.9	19.7	23.7	27.7
h	15.3	19.3	23.2	26.9

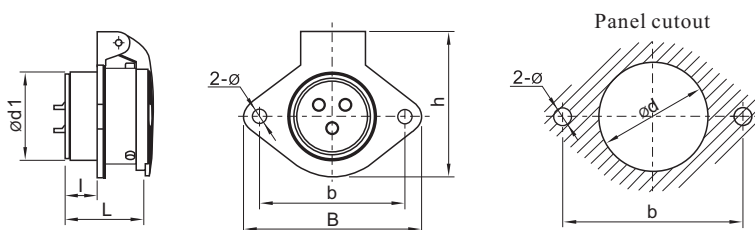


● Front-nut-mount receptacle: ZMQ IP67



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

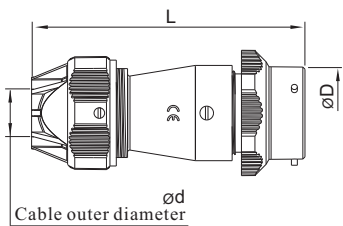
● 2-hole flange panel receptacle with cap: ZG IP67 (Cap IP44)



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



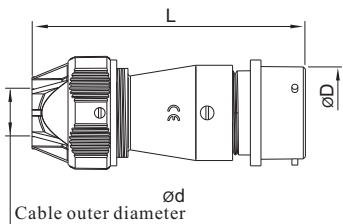
● In-line receptacle with metal clamping-nut B: ZEB IP67



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

Optional cap size see P20

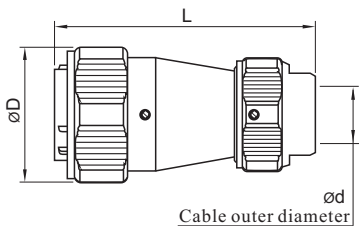
● In-line receptacle with metal clamping-nut: ZE IP67



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 II: 24.5-26	24.5-26

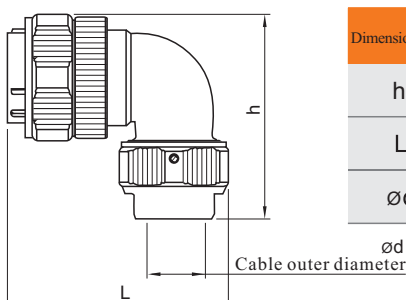
Optional cap size see P20

● 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 II: 24.5-26	24.5-26

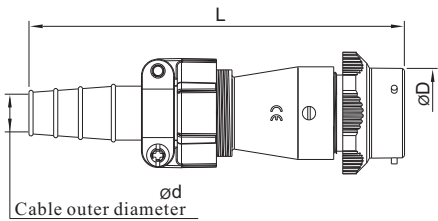
● Plug with angled back shell and metal clamping-nut: TU IP66



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



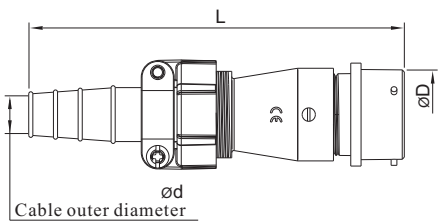
● In-line receptacle with cable clamping plates B: ZIB IP65



Dimension(mm)	WY16	WY20	WY24	WY28
D	18	22	26	30
L	73	88	92	101
ød	7-8	8-10.5	8-10.5	11.5-13.6

Optional cap size see P20

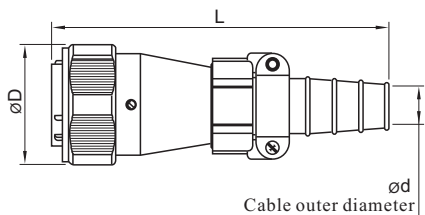
● In-line receptacle with cable clamping plates: ZI IP65



Dimension(mm)	WY32	WY40	WY48	WY55
D	35	44	52	58
L	119	130	137	165
ød	13-15.6	15.5-18.8	I:15.5-18.8 II:24-28	24-28

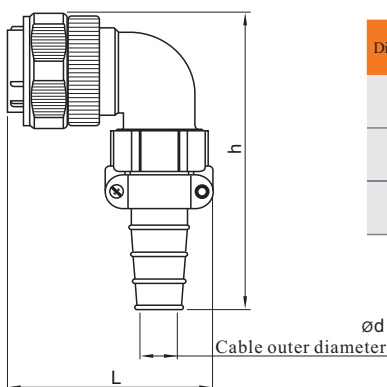
Optional cap size see P20

● 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	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

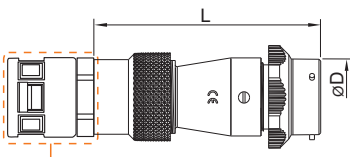
● Plug with angled back shell and cable clamping plates: TV IP65



Dimension(mm)	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
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: ZBB IP55

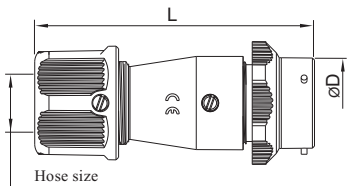


Optional plastic hose adapter

Dimension(mm)	WY16	WY20	WY24	WY28
D	18	22	26	30
L	54.5	64	67	73
Adapter size	PG7	PG11	PG11	PG16
model of plastic hose adapter	WQG-PG7(B)	WQG-PG11(B)	WQG-PG11(B)	WQG-PG16(B)
Hose size	AD10	AD15.8	AD15.8	AD21.2

Optional cap size see P20

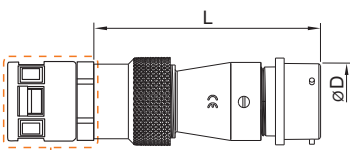
● In-line receptacle for PA-hose: ZHB IP65



Dimension(mm)	WY16	WY20	WY24	WY28
D	18	22	26	30
L	52	62.5	66.5	70
Hose size	AD10	AD15.8	AD15.8	AD21.2

Optional cap size see P20

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

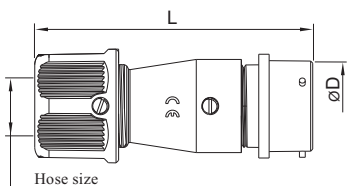


Optional plastic hose adapter

Dimension(mm)	WY32	WY40	WY48	WY55
D	35	44	52	58
L	86.5	95	104	120
Adapter size	PG21	PG29	I: PG29 II: PG36	PG36
model of plastic hose adapter	WQG-PG21(B)	WQG-PG29(B)	I: WQG-PG29(B) II: WQG-PG36(B)	WQG-PG36(B)
Hose size	AD28.5	AD34.5	I: AD34.5 II: AD42.5	AD42.5

Optional cap size see P20

● In-line receptacle for PA-hose : ZH P65

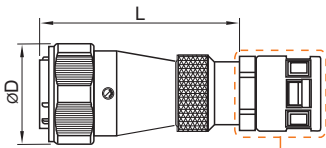


Dimension(mm)	WY16	WY20	WY24	WY28
D	18	22	26	30
L	54	64	66	70
Hose size	AD10	AD15.8	AD15.8	AD21.2

Optional cap size see P20



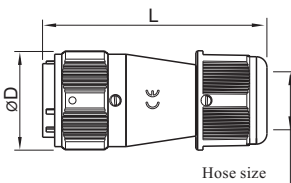
● Plug for plastic-hose: TB IP55



Optional plastic hose adapter

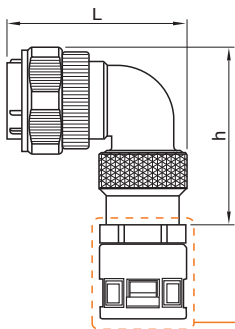
Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
D	25	29.5	34	38.5	44.5	54	91	96.5
L	54	62.5	66.5	72.5	87.5	95	105	118
Adapter size	PG7	PG11	PG11	PG16	PG21	PG29	I:PG29 II:PG36	PG36
model of plastic hose adapter	WQG-PG7(B)	WQG-PG11(B)	WQG-PG11(B)	WQG-PG16(B)	WQG-PG21(B)	WQG-PG29(B)	I:WQG-PG29(B) II:WQG-PG36(B)	WQG-PG36(B)
Hose size	AD10	AD15.8	AD15.8	AD21.2	AD28.5	AD34.5	I:AD34.5 II:AD42.5	AD42.5

● Plug for PA-hose: TH IP65



Dimension(mm)	WY16	WY20	WY24	WY28
D	25	29.6	34	38
L	51	62.5	65.5	68.5
Hose size	AD10	AD15.8	AD15.8	AD21.2

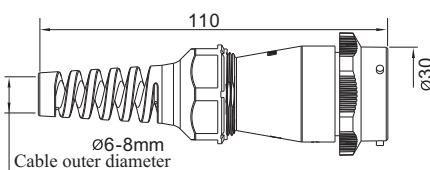
● Plug with angled back shell for plastic-hose: TW IP55



Optional plastic hose adapter

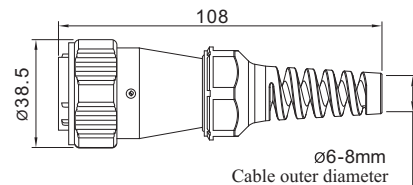
Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
h	44.5	53.5	55	61	70	83	91	96.5
L	47	56.5	57.5	61	82	88.5	95	106
Adapter size	PG7	PG11	PG11	PG16	PG21	PG29	PG29	PG36
model of plastic hose adapter	WQG-PG7(B)	WQG-PG11(B)	WQG-PG11(B)	WQG-PG16(B)	WQG-PG21(B)	WQG-PG29(B)	WQG-PG29(B)	WQG-PG36(B)
Hose size	AD10	AD15.8	AD15.8	AD21.2	AD28.5	AD34.5	AD42.5	AD42.5

● In-line receptacle with strain relief B: ZXB IP67



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

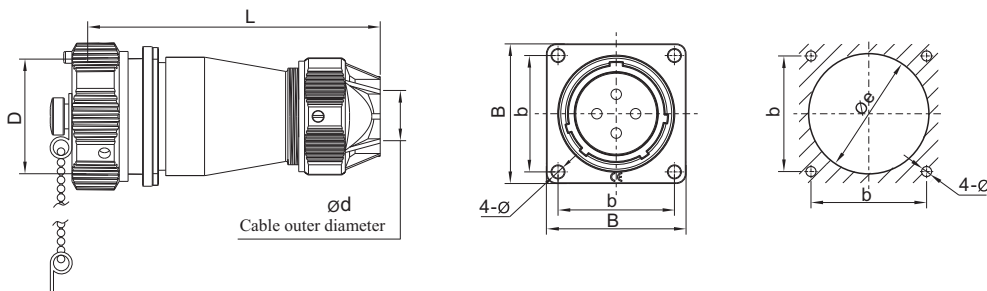
● Plug with strain relief: TX IP67



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

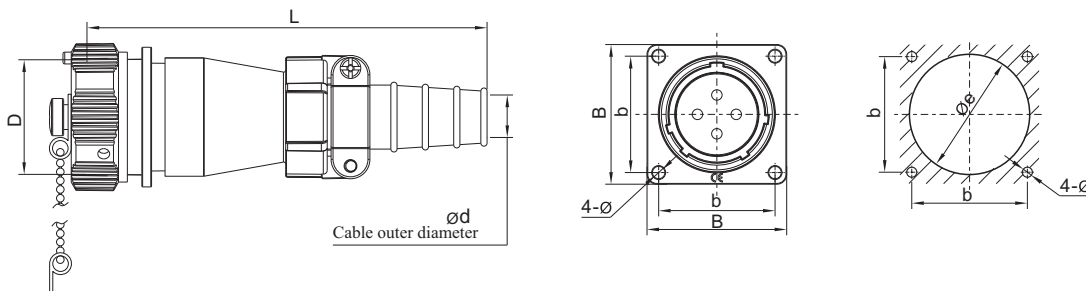


● In-line receptacle with metal clamping-nut and square flange: ZEF IP67



Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
D	18	22	26	30	35	44	52	58
L	55	63	66.5	70	90.5	103.5	108	131.6
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
e	18.5	23	26.5	31	35	43	51	58.2
ød	I:3.5-5 II:5-6.5	9-10.5	9-10.5	10.5-12.5	I:13.5-15.5 II:15.5-17	I:15.5-17 II:18-20	I:18-20 II:24.5-26 III:22.5-24.5	I:22.5-24.5 II:24.5-26
ø	3.2	3.2	3.2	3.2	3.5	4.5	4.5	4.5

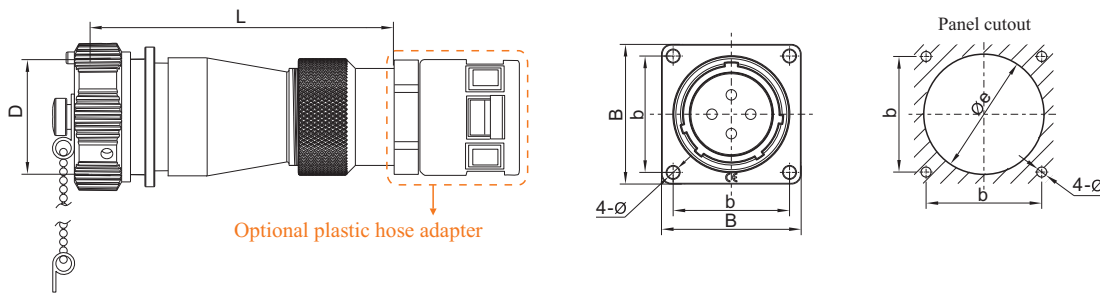
● In-line receptacle with cable clamping plates and square flange : ZIF IP65



Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
D	18	22	26	30	35	44	52	58
L	73	88	92	101	119	130	137	165
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
e	18.5	23	26.5	31	35	43	51	58.2
ød	7-8	8-10.5	8-10.5	11.5-13.6	13-15.6	15.5-18.8	I:15.8-18.8 II:24-28	24-28
ø	3.2	3.2	3.2	3.2	3.5	4.5	4.5	4.5



● In-line receptacle for plug plastic-hose and square flange: ZBF IP55



Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
D	18	22	26	30	35	44	52	58
L	54.5	64	67	73	86.5	95	104	120
Adapter size	PG7	PG11	PG11	PG16	PG21	PG29	I:PG29 II:PG36	PG36
Model of plastic hose adapter	WQG-PG7(B)	WQG-PG11(B)	WQG-PG11(B)	WQG-PG16(B)	WQG-PG21(B)	WQG-PG29(B)	WQG-PG29(B) WQG-PG36(B)	WQG-PG36(B)
Hose size	AD10	AD15.8	AD15.8	AD21.2	AD28.5	AD34.5	I:AD34.5 II:AD42.5	AD42.5
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
e	18.5	23	26.5	31	35	43	51	58.2
Ø	3.2	3.2	3.2	3.2	3.5	4.5	4.5	4.5

Solder contact spec

★ Crimp contact spec see P22

★ Screw contact spec see P23

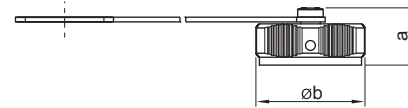
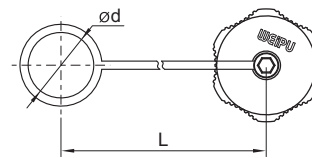
WY28	2	3	4	7	8	8B	9	10	10B	12	16	17	20	24	26	35
Male contact face view																
Rated current (A)	50	50	25	25	25	60.5	25.5	25	10	10	10	10	5	5	5	5
Contact diameter(mm)	Ø3.5X2	Ø3.5X3	Ø2.5X4	Ø2.5X7	Ø2.5X8	Ø5X2 Ø1X6	Ø2.5X4 Ø1X5	Ø2.5X10	Ø1.5X10	Ø1.5X12	Ø1.5X16	Ø1.5X17	Ø1X20	Ø1X24	Ø1X26	Ø1X35
Rated 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	0.5.5	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 ² /AWG)	≤10 / 7	≤10 / 7	≤4 / 12	≤4 / 12	≤4 / 12	≤16 / 5 ≤0.75 / 18	≤4 / 12 ≤0.75 / 18	≤4 / 12	≤1.5 / 16	≤1.5 / 16	≤1.5 / 16	≤1.5 / 16	≤0.75 / 18	≤0.75 / 18	≤0.75 / 18	≤0.75 / 18
Wire size for screw termination (mm ² /AWG)	Min:0.5/20 Max:6/10	Min:0.5/20 Max:6/10	Min:0.5/20 Max:1.5/15	Min:0.5/20 Max:1.5/15	Min:0.5/20 Max:1.5/15	/	/	Min:0.5/20 Max:1.5/15	/	/	/	/	/	/	/	/

● PVC cable protection sleeve for WS series



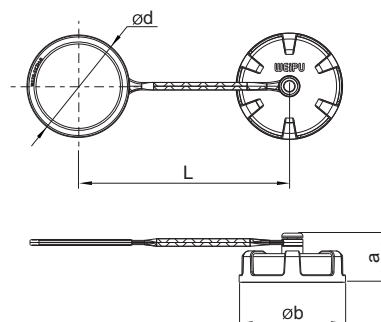
Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
D	12.5	16	16.5	19	25	30	30	36
L	30	38	38	38	51	53	53	59
d	6	6	6	7	13	17.8	17.8	23

● Metal receptacle cover for WY series IP67

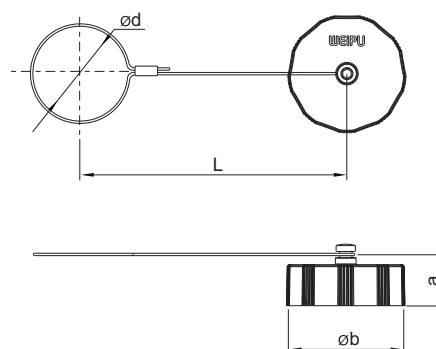
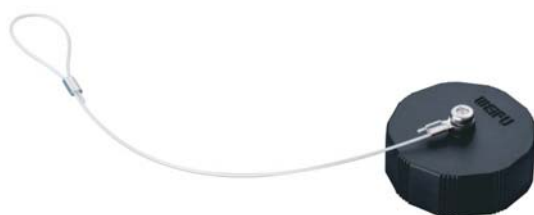


Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
a	13.5	14.5	14.5	14.5	17	17	17	17
b	20	29.5	34	38.5	44	54	62	68.5
d	16	20	24	28	32	40	48	55
L	55	60	65	70	90	100	110	120

● Plastic receptacle cover for WS and WF series



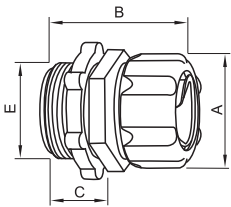
Dimension(mm)	WS/WF16	WS/WF20	WS/WF24	WS/WF28
a	15.1	15.8	16.3	16.3
b	22.1	26.7	30.9	35.3
d	22	26.7	30.9	34
L	55	60	63	70



Dimension(mm)	WS/WF32	WS/WF40	WS/WF48	WS/WF55
a	20	20	20	20
b	39	48	55.5	62.5
d	32	40	48	55
L	90	100	110	120

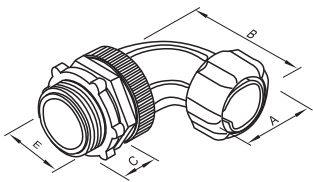


● Metal hose adapter



Dimension(mm)	Part No.	WAB-16	WAB-20	WAB-24	WAB-30	WAB-36
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		1/4"	3/8"	1/2"	3/4"	1"
Thread		M16X1.5	M20X1.5	M24X1.5	M30X2	M36X2

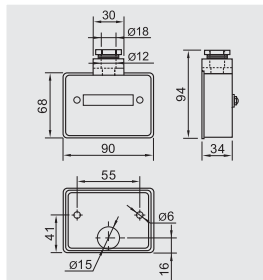
● Angled metal hose adapter



Dimension(mm)	Part No.	WAL-20	WAL-24	WAL-30	WAL-36
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



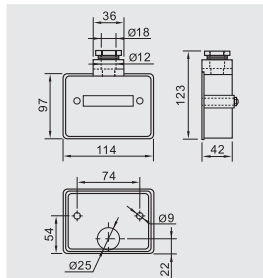
● Junction-box



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

Junction-box

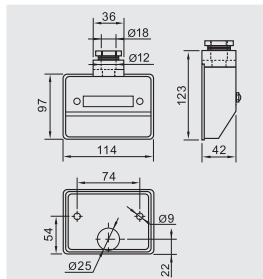
Bottom hole
 Upper hole (with cable tightening fittings)
 Electric Inlet
 Min conducting wire section mm² 1.5
 Max conducting wire section mm² 4



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

Junction-box

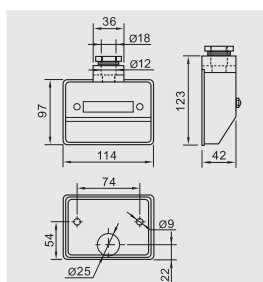
Bottom hole
 Upper hole (with cable tightening fittings)
 Electric Inlet
 Min conducting wire section mm² 2.5
 Max conducting wire section mm² 10



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 mm² 2.5
 Max conducting wire section mm² 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
 Conducting wire section mm² 6

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)	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
Insulation resistance (MΩ)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Wire size (mm ² /AWG)	≤1.5/16	≤1.5/16	≤0.75/18	≤1.5/16	≤1.5/16	≤1.5/16	≤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)	Ø2.5 2	Ø2.5 3	Ø2.5 4	Ø1.5 5	Ø1X2 Ø2.5X4	Ø1X4 Ø3X2	Ø1.5 7	Ø1.5 8	Ø1 9	Ø1 12	Ø1 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 ² /AWG)	≤4/12	≤4/12	≤4/12	≤1.5/16	≤0.75/18 ≤4/12	≤0.75/18 ≤4/12	≤1.5/16	≤1.5/16	≤0.75/18	≤0.75/18	≤0.75/18

WK24,SF24, SA24, SP25 SY25, 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)	Ø2.5X2	Ø2.5X3	Ø2.5X4	Ø1X5 Ø2.5X4	Ø1.5X10	Ø1.5X12	Ø1X9 Ø3X3	Ø1X19
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 ² /AWG)	≤4/12	≤4/12	≤4/12	≤0.75/18 ≤4/12	≤1.5/16	≤1.5/16	≤0.75/18 ≤4/12	≤0.75/18

WK28,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)	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	0.5. 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 ² /AWG)	≤10/7	≤10/7	≤4/12	≤4/12	≤4/12	≤16/5 ≤0.75/18	≤4/12 ≤0.75/18	≤4/12	≤1.5/16	≤1.5/16	≤1.5/16	≤1.5/16	≤1.5/16	≤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)	ø3.5X4	ø1.5X2 ø3.5X4	ø1.5X5 ø3.5X3	ø1.5X4 ø3.5X4	ø1.5X5 ø2.5X5	ø2.5X10	ø2.5X11	ø2.5X12	ø1.5X9 ø2.5X4	ø1.5X19
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 ² /AWG)	≤10/7	≤1.5/16 ≤10/7	≤1.5/16 ≤10/7	≤1.5/16 ≤10/7	≤1.5/16 ≤4/12	≤4/12	≤4/12	≤4/12	≤1.5/16 ≤4/12	≤1.5/16

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)	ø3.5X5	ø2.5X5 ø3.5X4	ø1.5X15	ø1.5X22 ø2.5X4	ø1.5X31	ø1X52
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 ² /AWG)	≤10/7	≤4/12 ≤10/7	≤1.5/16	≤1.5/16 ≤4/12	≤1.5/16	≤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)	ø5.5X5	ø3.5X7	ø2.5X20	ø1.5X26 ø2.5X1	ø1.5X33 ø2.5X5	ø1.5X42
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 ² /AWG)	≤25/3	≤10/7	≤4/12	≤1.5/16 ≤4/12	≤1.5/16 ≤4/12	≤1.5/16

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)	ø3.5X1 ø10X3	ø3.5X1 ø5.5X6	ø1.5X25 ø2.5X15	ø1.5X48 ø2.5X5	ø1.5X61
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 ² /AWG)	≤10/7 ≤50/(2/0)	≤10/7 ≤25/3	≤1.5/16 ≤4/12	≤1.5/16 ≤4/12	≤1.5/16

Crimp contact spec

Friendly reminder: Crimp contacts need to be purchased separately.
For details, please refer to pages P22-03/04/05

SF16, SA16, SP17, SY17 WS16, WF16, WY16	1 • Only for straight type product • Contact	2	3	4
Male contact face view				
Rated current (A)	50	10	10	5
Contact diameter(mm)	Ø3.5X1	Ø1.5X2	Ø1.5X3	Ø1X4
Rated voltage (AC.V)	500	500	500	400
Test voltage(AC.V) 1 min	1500	1500	1500	1200
Contact resistance(mΩ)	0.5	2.5	2.5	5
Insulation resistance (MΩ)	2000	2000	2000	2000






WK20,SF20, SA20, SP21, SY21 WS20,WF20, WY20, WP20	1 • Only for straight type product • Contact	2	3	4	5	7	7B	8
Male contact face view								
Rated current (A)	100	25	25	25	10	10	5	5
Contact diameter(mm)	Ø5.5X1	Ø2.5X2	Ø2.5X3	Ø2.5X4	Ø1.5X5	Ø1.5X7	Ø1X7	Ø1X8
Rated voltage (AC.V)	500	500	500	500	500	500	400	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500	1200	1200
Contact resistance(mΩ)	0.3	1	1	1	2.5	2.5	5	5
Insulation resistance (MΩ)	2000	2000	2000	2000	2000	2000	2000	2000




WK24, SA24, SY25, SP25 WS24, WF24, WY24	4	5	9	12
Male contact face view				
Rated current (A)	25	25	10	5
Contact diameter(mm)	Ø2.5X4	Ø2.5X5	Ø1.5X9	Ø1X12
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



WK28, SA28, SP29, SY29 WS28, WF28, WY28	2	3	7	12	15	19
Male contact face view						
Rated current (A)	50	50	25	10	5	5
Contact diameter(mm)	Ø3.5X2	Ø3.5X3	Ø2.5X7	Ø1.5X12	Ø1X15	Ø1X19
Rated voltage (AC.V)	500	500	500	500	400	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1200	1200
Contact resistance(mΩ)	0.5	0.5	1	2.5	5	5
Insulation resistance (MΩ)	2000	2000	2000	2000	2000	2000



Crimp contact spec

Friendly reminder: Crimp contacts need to be purchased separately.
For details, please refer to pages P22-03/04/05

WS32, WF32, WY32	4	6	10	15	19
Male contact face view					
Rated current (A)	50	50 10	25	10	10
Contact diameter(mm)	Ø3.5X4	Ø3.5X4 Ø1.5X2	Ø2.5X10	Ø1.5X15	Ø1.5X19
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)	Ø3.5X5	Ø2.5X19	Ø1.5X31
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

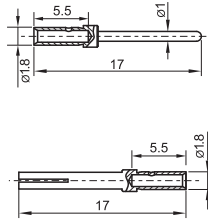
WS48, WF48, WY48	31	42
Male contact face view		
Rated current (A)	25	10
Contact diameter(mm)	Ø2.5X31	Ø1.5X42
Rated voltage (AC.V)	500	500
Test voltage(AC.V) 1 min	1500	1500
Contact resistance(mΩ)	1	2.5
Insulation resistance (MΩ)	2000	2000

WS55, WF55, WY55	38	61
Male contact face view		
Rated current (A)	25	10
Contact diameter(mm)	Ø2.5X38	Ø1.5X61
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 ² AWG 24-20	5.5mm	YJ1-17-0.52AU	CTW-0.14/4	RT-1.0

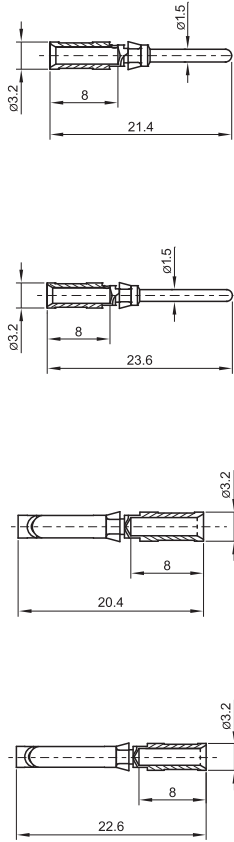
5A Female crimp contact

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 ² AWG 24-20	5.5mm	YK1-17-0.52AU	CTW-0.14/4	RT-1.0

10A Crimp contact

- ※ Crimp 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 ² AWG 26-22	8mm	YJ1.5-21.4-0.37AU	CTW-0.14/4	RT-1.5
0.5mm ² AWG 20	8mm	YJ1.5-21.4-0.5AU	CTW-0.14/4	RT-1.5
0.75-1.0mm ² AWG 18	8mm	YJ1.5-21.4-1.0AU	CTW-0.14/4	RT-1.5
1.5mm ² AWG 16	8mm	YJ1.5-21.4-1.5AU	CTW-0.14/4	RT-1.5
2.5mm ² 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 ² AWG 26-22	8mm	YJ1.5-23.6-0.37AU	CTW-0.14/4	RT-1.5
0.5mm ² AWG 20	8mm	YJ1.5-23.6-0.5AU	CTW-0.14/4	RT-1.5
0.75-1.0mm ² AWG 18	8mm	YJ1.5-23.6-1.0AU	CTW-0.14/4	RT-1.5
1.5mm ² AWG 16	8mm	YJ1.5-23.6-1.5AU	CTW-0.14/4	RT-1.5
2.5mm ² 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 ² AWG 26-22	8mm	YK1.5-20.4-0.37AU	CTW-0.14/4	RT-1.5
0.5mm ² AWG 20	8mm	YK1.5-20.4-0.5AU	CTW-0.14/4	RT-1.5
0.75-1.0mm ² AWG 18	8mm	YK1.5-20.4-1.0AU	CTW-0.14/4	RT-1.5
1.5mm ² AWG 16	8mm	YK1.5-20.4-1.5AU	CTW-0.14/4	RT-1.5
2.5mm ² AWG 14	8mm	YK1.5-20.4-2.5AU	CTW-0.14/4	RT-1.5

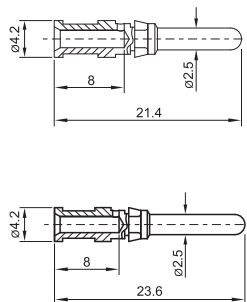
10A Female crimp contact

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 ² AWG 26-22	8mm	YK1.5-22.6-0.37AU	CTW-0.14/4	RT-1.5
0.5mm ² AWG 20	8mm	YK1.5-22.6-0.5AU	CTW-0.14/4	RT-1.5
0.75-1.0mm ² AWG 18	8mm	YK1.5-22.6-1.0AU	CTW-0.14/4	RT-1.5
1.5mm ² AWG 16	8mm	YK1.5-22.6-1.5AU	CTW-0.14/4	RT-1.5
2.5mm ² AWG 14	8mm	YK1.5-22.6-2.5AU	CTW-0.14/4	RT-1.5

25A Crimp contact

- ※ Crimp 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 ² AWG 18	8mm	YJ2.5-21.4-1.0AU	CTW-0.14/4	RT-2.5
1.5mm ² AWG 16	8mm	YJ2.5-21.4-1.5AU	CTW-0.14/4	RT-2.5
2.5mm ² AWG 14	8mm	YJ2.5-21.4-2.5AU	CTW-0.14/4	RT-2.5
4.0mm ² AWG 12	8mm	YJ2.5-21.4-4.0AU	CTW-0.14/4	RT-2.5

25A Male crimp contact

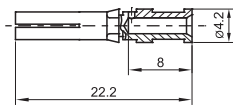
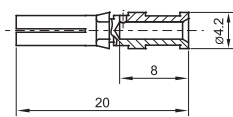
For WS/WF/WY32-55

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

Crimp contact

25A Crimp contact

- ※ Crimp 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 ² AWG 18	8mm	YK2.5-20-1.0AU	CTW-0.14/4	RT-2.5
1.5mm ² AWG 16	8mm	YK2.5-20-1.5AU	CTW-0.14/4	RT-2.5
2.5mm ² AWG 14	8mm	YK2.5-20-2.5AU	CTW-0.14/4	RT-2.5
4.0mm ² AWG 12	8mm	YK2.5-20-4.0AU	CTW-0.14/4	RT-2.5

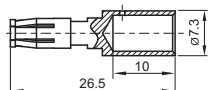
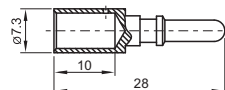
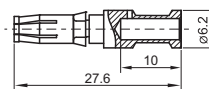
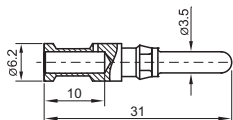
25A Female crimp contact

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 ² AWG 18	8mm	YK2.5-22.2-1.0AU	CTW-0.14/4	RT-2.5
1.5mm ² AWG 16	8mm	YK2.5-22.2-1.5AU	CTW-0.14/4	RT-2.5
2.5mm ² AWG 14	8mm	YK2.5-22.2-2.5AU	CTW-0.14/4	RT-2.5
4.0mm ² AWG 12	8mm	YK2.5-22.2-4.0AU	CTW-0.14/4	RT-2.5

50A Crimp contact

- ※ Crimp diameter: $\varnothing 3.5$
- ※ Material: copper
- ※ Contact resistance: $0.5\text{m}\Omega$



50A Male crimp contact

Wire size	Stripping length	Male crimp contact p/n	Crimping tool p/n	Removal tool p/n
1.5mm ² AWG 16	10mm	YJ3.5-31-1.5AU	CT-0.14/4	RT-3.5
2.5mm ² AWG 14	10mm	YJ3.5-31-2.5AU	CT-0.14/4	RT-3.5
4.0mm ² AWG 12	10mm	YJ3.5-31-4.0AU	CT-0.14/4	RT-3.5
6.0mm ² AWG 10	10mm	YJ3.5-31-6.0AU	CT-4/10	RT-3.5
10.0mm ² 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 ² AWG 16	10mm	YK3.5-27.6-1.5AU	CT-0.14/4	RT-3.5
2.5mm ² AWG 14	10mm	YK3.5-27.6-2.5AU	CT-0.14/4	RT-3.5
4.0mm ² AWG 12	10mm	YK3.5-27.6-4.0AU	CT-0.14/4	RT-3.5
6.0mm ² AWG 10	10mm	YK3.5-27.6-6.0AU	CT-4/10	RT-3.5
10.0mm ² AWG 7	10mm	YK3.5-27.6-10.0AU	CT-4/10	RT-3.5

50A Male crimp contact

For 2 & 3 pins of SP29, SY29, SA28, WS/WF/WY28

Wire size	Stripping length	Male crimp contact p/n	Crimping tool p/n	Removal tool p/n
4.0mm ² AWG 12	10mm	YJ3.5-28-4.0AU	CT-4/10	RT-3.5
6.0mm ² AWG 10	10mm	YJ3.5-28-6.0AU	CT-4/10	RT-3.5
10mm ² AWG 7	10mm	YJ3.5-28-10.0AU	CT-4/10	RT-3.5
16mm ² AWG 5	10mm	YJ3.5-28-16.0AU	YQK-70	RT-3.5

50A Female crimp contact

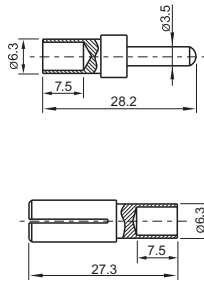
For 2 & 3 pins of SP29, SY29, SA28, WS/WF/WY28

Wire size	Stripping length	Female crimp contact p/n	Crimping tool p/n	Removal tool p/n
4.0mm ² AWG 12	10mm	YK3.5-26.5-4.0AU	CT-4/10	RT-3.5
6.0mm ² AWG 10	10mm	YK3.5-26.5-6.0AU	CT-4/10	RT-3.5
10mm ² AWG 7	10mm	YK3.5-26.5-10.0AU	CT-4/10	RT-3.5
16mm ² AWG 5	10mm	YK3.5-26.5-16.0AU	YQK-70	RT-3.5

Crimp contact

50A Crimp contact

- ※ Contact diameter: $\varnothing 3.5$
- ※ Material: brass with silver plating
- ※ Contact resistance: $0.5m\ \Omega$



50A Male crimp contact

For WS/WF/WY16/SY17/SP17/SA16/SF16

Wire size	Stripping length	Crimping tool p/n
10.0mm ² AWG 7	10mm	YQK-70

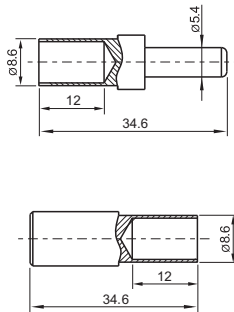
50A Female crimp contact

For WS/WF/WY16/SY17/SP17/SA16/SF16

Wire size	Stripping length	Crimping tool p/n
10.0mm ² AWG 7	10mm	YQK-70

100A Crimp contact

- ※ Contact diameter: $\varnothing 5.5$
- ※ Material: brass with silver plating
- ※ Contact resistance: $0.3m\ \Omega$



100A Male crimp contact

For WS/WF/WY20/SP21/SY21/SA20/SF20/WP20

Wire size	Stripping length	Crimping tool p/n
25mm ² AWG 3	10mm	YQK-70

100A Female crimp contact

For WS/WF/WY20/SP21/SY21/SA20/SF20/WP20

Wire size	Stripping length	Crimping tool p/n
25mm ² AWG 3	10mm	YQK-70

Crimp tool

For crimping the male / female contacts



Part number	Crimping wire range
YQK-70	4-70mm ² AWG 11-2/0

Crimp tool and Removal tool

Crimp tool

For crimping the male / female contacts

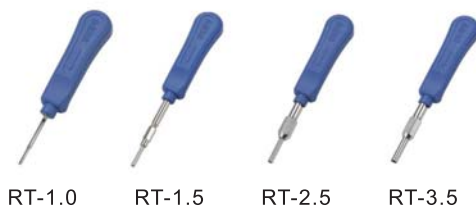


Part number	Crimping wire range
CTW-0.14/4	0.14-4mm ² AWG 26-12

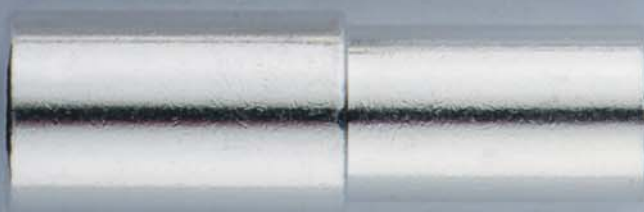
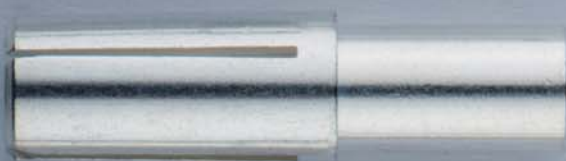
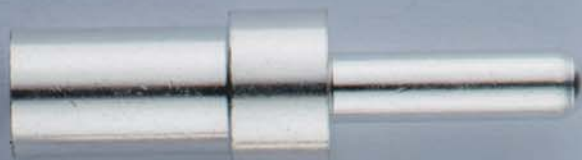
Part number	Crimping wire range
CT-4/10	4-10mm ² AWG 12-7
CT-0.14/4	0.14-4mm ² AWG 26-12

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)	∅2.5X2	∅2.5X3	∅2.5X4
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 ² / AWG)	Min: 0.5/20 Max: 1.5/15	Min: 0.5/20 Max: 1.5/15	Min: 0.5/20 Max: 1.5/15



WK20, SP21, SY21, WP20	2	3	4	5
Male contact face view				
Rated current (A)	10	10	10	10
Contact diameter(mm)	∅3X2	∅3X3	∅3X4	∅3X5
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 ² / AWG)	Min: 0.5/20 Max: 1.5/15	Min: 0.5/20 Max: 1.5/15	Min: 0.5/20 Max: 1.5/15	Min: 0.5/20 Max: 1.5/15



WK24, WS24, WF24, WY24 SA24, SF24, SP25, SY25	2	3	4
Male contact face view			
Rated current (A)	10	10	10
Contact diameter(mm)	∅2.5X2	∅2.5X3	∅2.5X4
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 ² / AWG)	Min: 0.5/20 Max: 1.5/15	Min: 0.5/20 Max: 1.5/15	Min: 0.5/20 Max: 1.5/15

SA28, SP29, SY29 WK28, 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)	∅3.5X2	∅3.5X3	∅2.5X4	∅2.5X7	∅2.5X8	∅2.5X10
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 ² / AWG)	Min: 0.5/20 Max: 6/10	Min: 0.5/20 Max: 6/10	Min: 0.5/20 Max: 1.5/15	Min: 0.5/20 Max: 1.5/15	Min: 0.5/20 Max: 1.5/15	Min: 0.5/20 Max: 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)	ø3.5X4	ø2.5X10	ø2.5X11	ø2.5X12
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 ² /AWG)	Min: 0.5/20 Max: 6/10	Min: 0.5/20 Max: 1.5/15	Min: 0.5/20 Max: 1.5/15	Min: 0.5/20 Max: 1.5/15




WS40, WF40, WY40	5	9
Male contact face view		
Rated current (A)	32	10 32
Contact diameter(mm)	ø3.5X5	ø2.5X5 ø3.5X4
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 ² /AWG)	Min: 0.5/20 Max: 6/10	Min: 0.5/20 Max: 1.5/15



WS48, WF48, WY48	7	20
Male contact face view		
Rated current (A)	32	10
Contact diameter(mm)	ø3.5X7	ø2.5X20
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 ² /AWG)	Min: 0.5/20 Max: 6/10	Min: 0.5/20 Max: 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 SP29,SY29	2	3	7
Male contact face view			
Rated current (A)	50	50	25
Contact diameter(mm)	Ø3.5X2	Ø3.5X3	Ø2.5X7
Rated voltage (AC.V)	500	500	500
Test voltage(AC.V) 1 min	1500	1500	1500
Contact resistance (mΩ)	0.5	0.5	1
Insulation resistance (MΩ)	2000	2000	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



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


Solder connect to crimp


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)	10	10
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)	10
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)	32
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

