WEIPU®

CIRCULAR CONNECTORS

Connecting the world, connecting the future

POWER

WEiPU®

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+
Factory Area

54+
Patents

5000+
Domestic and International Customers

90+
The product is widely used in various countries

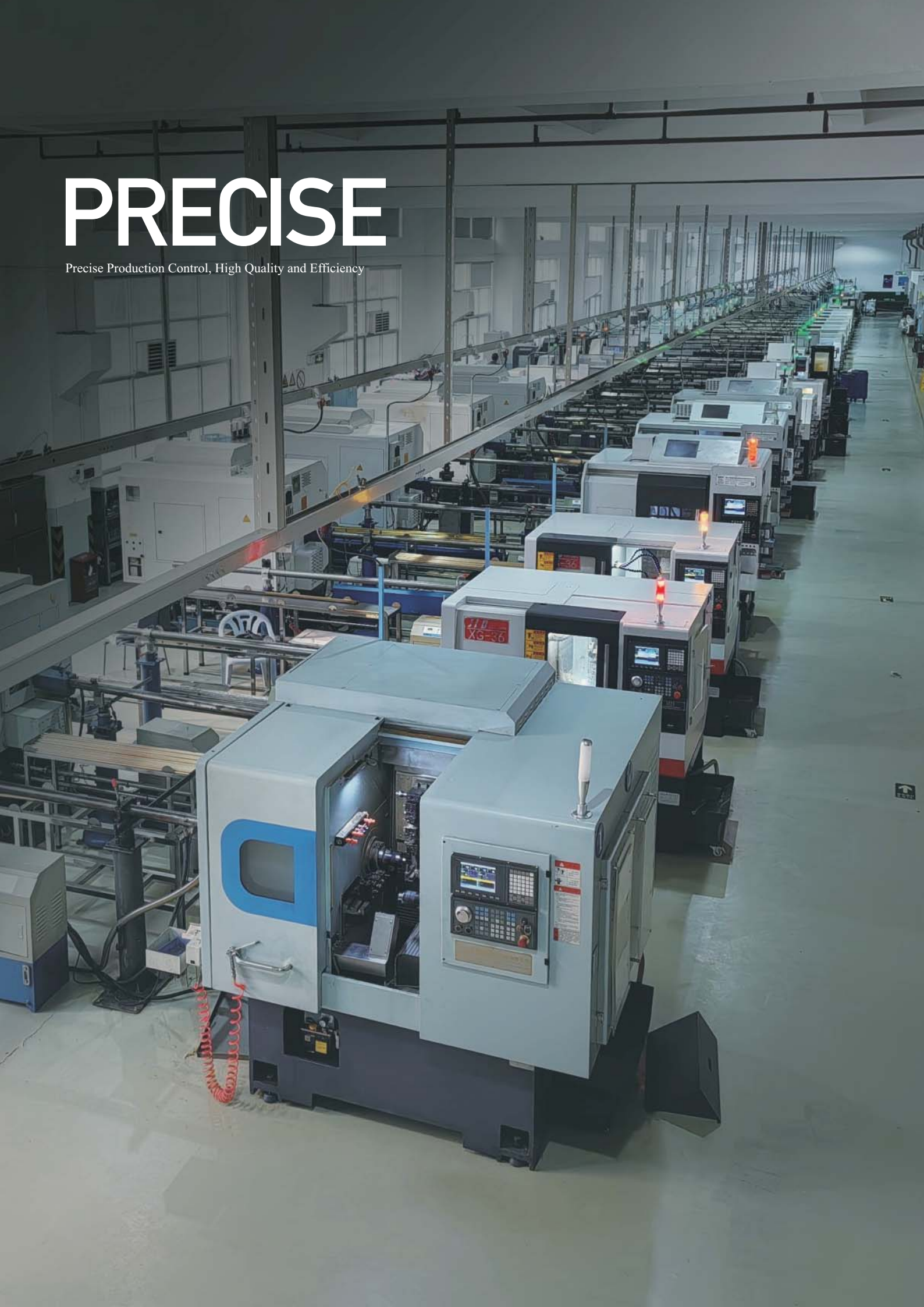
Guangdong Weipu Electrical Co., Ltd. was established in 1996 and is a high-tech enterprise integrating the research and development, manufacturing, marketing, and service of connectors, industrial waterproof connector devices, and cable assembly.

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.

ISO 9001 ISO/TS 22163 IATF16949



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

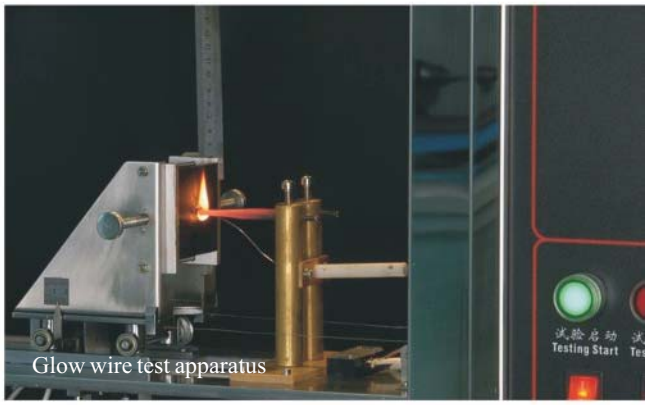
QUALITY

Rigorous testing ensures product quality

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.

Image size measurement



Glow wire test apparatus

Connector vibration detection

PRODUCT CONTENT

Precision connector Series

P01/01-42

Specifications: B、K、P、W

IP rating: B、P: IP50; K、W: IP68

Coupling:
B、 K、P Series: push-pull self-latching
W Series: screw coupling

No. of contact:

00: 2-5	1B: 2-16	1K: 2-16	1P: 2-14
0B: 2-12	2B: 2-32	2K: 2-32	2P: 2-32
	3B: 2-30	3K: 2-30	3W: 2-30

WK Series

P02/01-22

Specifications: WK16、WK20、WK24、WK28

IP rating: IP68

Coupling: Push-lock connection

No. of contact:

WK16: 2-9	WK24: 2-19
WK20: 2-15	WK28: 2-35

WK24 Signal and Data Connector Series:
LC, RJ45, USB3.0, HDMI2.0

M23X/Q Series

P03/01-18

Specifications: M23X、M23X Signal
M23Q、M23Q Signal

IP rating: IP67

Coupling:
M23X、M23X Signal series: Threaded
M23Q、M23Q Signal series: Bayonet

No. of contact:
Power: 6、 8

Sinal: 9、 12、 17、 19

SF Series

04/01-20

Specifications: SF6、SF8、SF10、SF12、SF16、SF20、SF24

IP rating: IP67

Coupling: push-pull

No. of contact:

SF6:2-5	SF10:2-5	SF16:2-10	SF24:2-19
SF8:2-8	SF12:2-9	SF20:2-15	

SF Anti-bending No. of contact:

SF6:2-5	SF10:2-5	SF16:2-10
SF8:2-8	SF12:2-9	SF20:2-15

SF24 signal, data No. of contact:
LC、RJ45、USB3.0、HDMI2.0

SA Series

P05/01-14

Specifications：SA6、SA8、SA10、SA12、SA16、SA20、SA24、SA28

IP rating: IP67

Coupling: push-pull

No. of contact:

SA6:2-5	SA10:2-5	SA16:2-10	SA24:2-19
SA8:2-8	SA12:2-9	SA20:2-15	SA28:2-35

Sa24 signal, data No. of contact:
LC、RJ45、USB3.0、HDMI2.0

ST Series

P06/01-02

Specifications：ST12

IP rating: IP67

Coupling: threaded

No. of contact:2-9

SP Series

P07/01-14

Specifications：SP11、SP13、SP17、SP21、SP25、SP29

IP rating: IP68

Coupling: threaded

No. of contact:

SP11: 2-5	SP21: 1-15	SP25: 2-19
SP13: 2-9	SP17: 1-10	SP29: 2-35

SY Series

08/01-14

Specifications：SY11、SY13、SY17、SY25、SY29

IP rating: IP67

Coupling: bayonet

No. of contact:

SY11: 2-5	SY21: 1-15	SY25: 2-19
SY13: 2-9	SY17: 1-10	SY29: 2-35

NEW SY25 signal, data No. of contact:
LC、RJ45、USB3.0、HDMI2.0

PRODUCT CONTENT

Wa22 Series

P09/01-04

Specifications：WA22

IP rating: IP67

Coupling: threaded

No. of contact:
3+PE、6+PE

WAC3 Series

P10/01-02

Specifications：WAC3

IP rating: IP65

Coupling: bayonet

No. of contact: 3

RJ45F Series

P11/01-02

Specifications：RJ45F

IP rating: IP67

Coupling: bayonet

WP Series

P12/01-02

Specifications：WP20

IP Rating: IP44、IP55

Coupling: bayonet

No. of contact: 1-15

WT Series

P13/01-02

Specifications：WT29

IP rating: IP40

Coupling: bayonet

No. of contact: 3、5

Wl52 Series

P14/01-06

Specifications：WL52

IP rating: IP66、IP67

Coupling: threaded

No. of contact:19

WD Series

P15/01-02

Specifications：WD28

IP rating: IP55、IP65

Coupling: threaded

No. of contact: 4、15

WB Series

P16/01-04

Specifications：WB25、WB30

IP rating: IP40

Coupling: threaded

No. of contact: 4、7

PRODUCT CONTENT

WS Series

P17/01-20

Specifications：WS16-55
Specifications vary by shell type.

IP rating: IP40

Coupling: threaded

No. of contact: 1-61

WF Series

P18/01-18

Specifications：WF16-55
Specifications vary by shell type.

IP rating: IP55、IP65、IP67

Coupling: threaded

No. of contact: 1-61

WY Series

P19/01-20

Specifications：WY16-55
Specifications vary by shell type.

IP rating: IP55、IP65、IP66、IP67

Coupling: bayonet

No. of contact: 1-61

WY12 No. of contact: 2-9

NEW WY24 signal, data No. of contact:
LC、RJ45、USB3.0、HDMI2.0

Electirical accessories

P20/01-04

Cable gland
Adapter
Junction-box

Solder contact spec

P21/01-02

For:
WK、SF、SA、SP、SY、WP、WS、WF、
WY、ST、WL、WD、WB

Crimp contact spec and tool

P22/01-05

For:
WK、SF、SA、SP、SY、WP、WS、WF、WY

Screw contact spec

P23/01-02

For:
WK、SF、SA、SP、SY、WP、WS、WF、WY

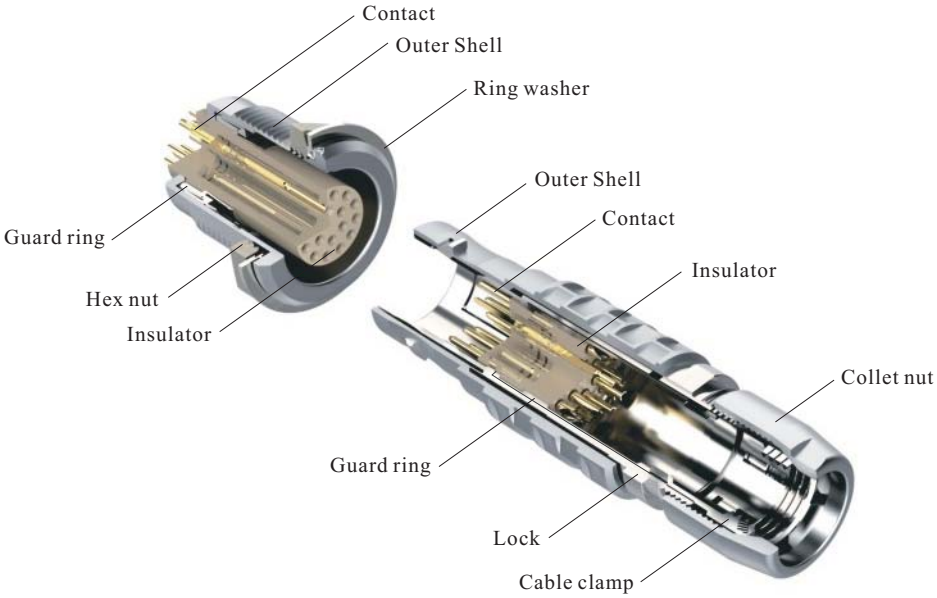
Standard of the Push-Pull self-latching system

— keying system

B Series

IP50

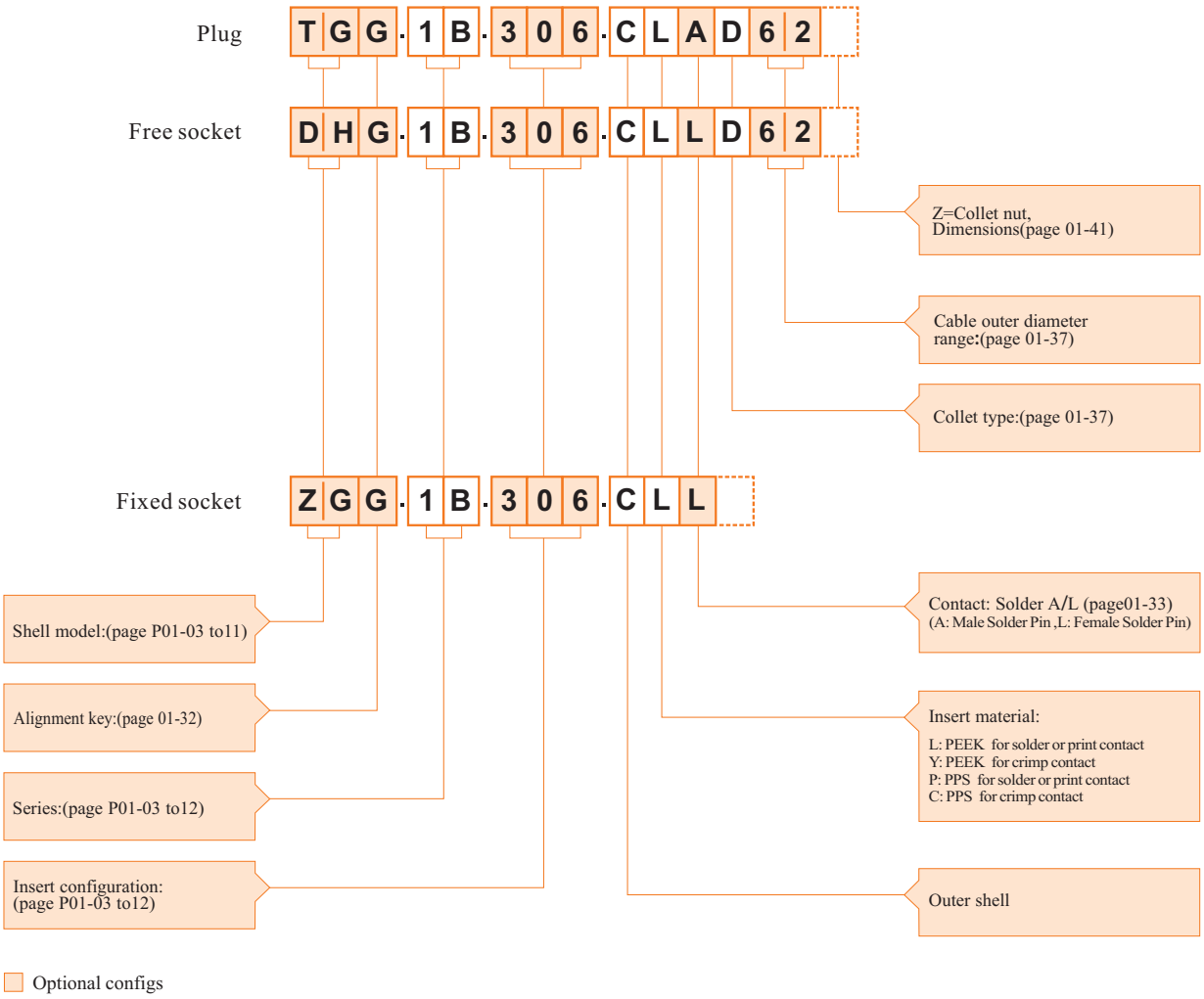
Part Section Showing Internal Components



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℃～+250℃	-55℃～+220℃
Insulation impedance	≥100 MΩ	
Shielding efficiency	at10MHz＞75dB/at 1GHz＞40dB	
Salt spray test	＞144 hrs	＞48 hrs

Part Numbering System



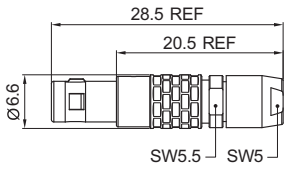
TGG.1B.306.CLAD62 = straight plug with key (G) and cable collet, 1B series, multipole type with 6 contacts, outer shell in chrome-plated brass, PEEK insulator, male solder contacts, D type collet for 5.3mm-6.2mm diameter cable.

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.

| | | 0 | 0 | | | | C | L | | | | | |

TGG

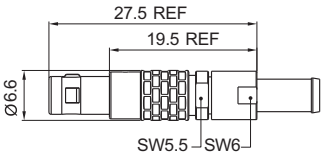
Straight plug, key(G), cable collet



TGG

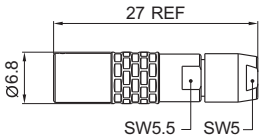
Straight plug, key(G), cable collet and nut for fitting a bend relief

Note: The bend relief must be ordered separately(page 01-41)



DHG

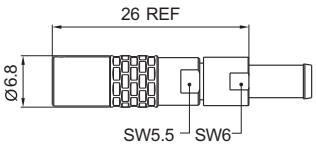
Free socket, key(G), cable collet



DHG

Free socket, key(G), cable collet and nut for fitting a bend relief

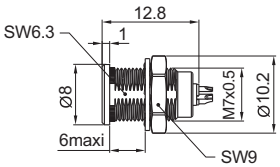
Note: The bend relief must be ordered separately(page 01-40)



ZGG

Fixed socket, nut fixing, key

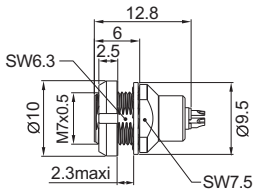
Note: Panel cut-out,nut fixing torque,(page01-40)



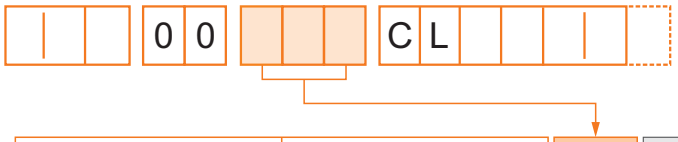
ZEG

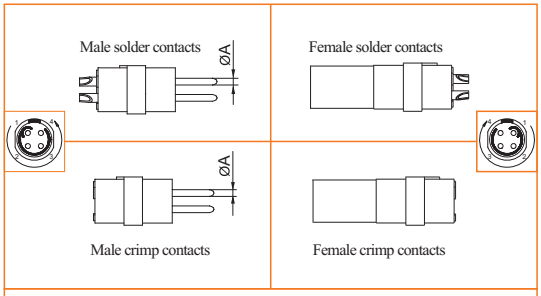
Fixed socket, nut fixing, key(G)

Note: Panel cut-out,nut fixing torque,(page01-40)



00 Series Insert configuration





Reference	Contact		Contact type				Test voltage (kV rms)				Rated current (A)
							Solder		Crimp		
	Number of contact	Cable (mm)	Solder	Crimp	PCB straight	PCB angled	Contact ⬍ Contact	Contact ⬍ Housing	Contact ⬍ Contact	Contact ⬍ Housing	
302	2	0.5	●	●	●	●	1.00	0.95	1.15	1.20	3.5
303	3	0.5	●	●	●	●	0.80	0.95	1.35	1.10	3.0
304	4	0.5	●	●	●	●	0.80	0.65	1.05	1.05	2.0
305	5	0.35	●	—	●	—	0.7	0.6	—	—	1.7

● Regular model, preferred

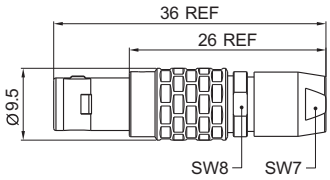
● In development

1) for male contacts

Note: In certain applications, the safety of electrical equipment has stricter requirements on the rated voltage. In such cases, the value of the rated voltage is determined by the creepage distance between live parts.

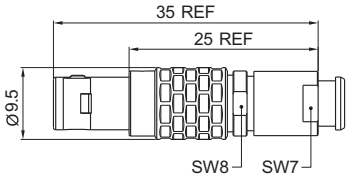
		0	B				C	L					

TGG
Straight plug, key(G), cable collet

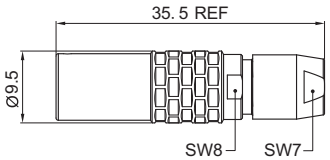


TGG
Straight plug, key(G), cable collet and nut for fitting a bend relief

Note: The bend relief must be ordered separately(page 01-41)

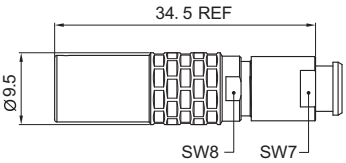


DHG
Free socket, key(G), cable collet



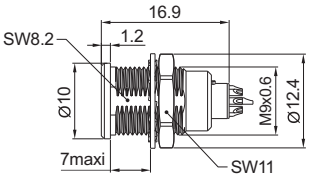
DHG
Free socket, key(G), cable collet and nut for fitting a bend relief

Note: The bend relief must be ordered separately(page 01-40)



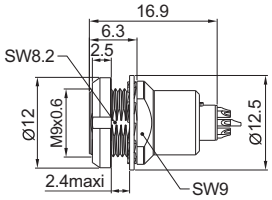
ZGG
Fixed socket, nut fixing, key(G)

Note: Panel cut-out,nut fixing torque,(page01-40)

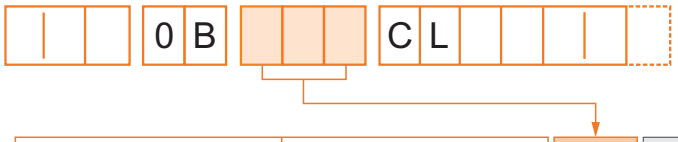


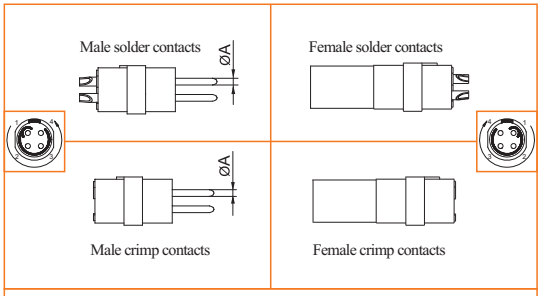
ZEG
Fixed socket, nut fixing, key(G)

Note: Panel cut-out,nut fixing torque,(page01-40)



0B Series Insert configuration





Reference	Contact		Contact type				Test voltage (kV rms)				Rated current (A)
	Number of contact	Cable (mm)	Solder	Crimp	PCB straight	PCB angled	Solder		Crimp		
							Contact ⬍ Contact	Contact ⬍ Housing	Contact ⬍ Contact	Contact ⬍ Housing	
302	2	0.9	●	●	●	●	1.00	1.05	1.45	1.20	10.0
303	3	0.9	●	●	●	●	1.20	0.90	1.70	1.60	8.0
304	4	0.7	●	●	●	●	0.85	0.70	1.35	1.10	7.0
305	5	0.7	●	●	●	●	1.00	0.70	1.25	1.20	6.5
306	6	0.5	●	●[1)]	●	●	0.85	0.65	1.40	1.20	2.5
307	7	0.5	●	●[1)]	●	●	0.80	0.70	1.40	1.20	2.5
309	9	0.5	●	●[1)]	●	●	0.60	0.50	1.00	0.85	2.0
312	12	0.35	●	—	—	—	0.80	1.00	—	—	1.5

● Regular model, preferred

● In development

1) for male contacts

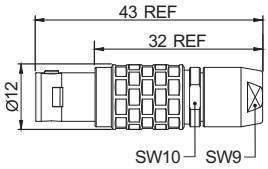
Calculation Standard: Working Voltage = Test Voltage / 3

Note: In certain applications, the safety of electrical equipment has stricter requirements on the rated voltage. In such cases, the value of the rated voltage is determined by the creepage distance between live parts.

| | | 1 | B | | | | C | L | | | | | |

TGG

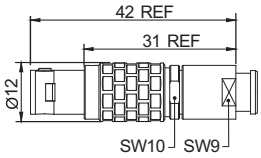
Straight plug, key(G), cable collet



TGG

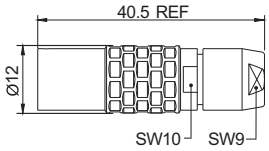
Straight plug, key(G), cable collet and nut for fitting a bend relief

Note: The bend relief must be ordered separately(page 01-41)



DHG

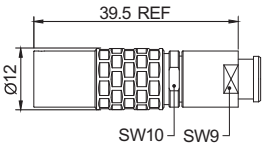
Free socket, key(G), cable collet



DHG

Free socket, key(G), cable collet and nut for fitting a bend relief

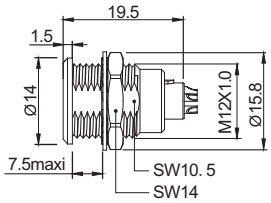
Note: The bend relief must be ordered separately(page 01-41)



ZGG

Fixed socket, nut fixing, key(G)

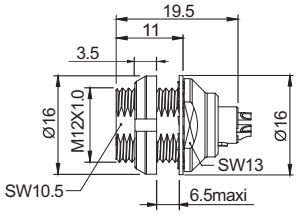
Note: Panel cut-out,nut fixing torque,(page01-40)

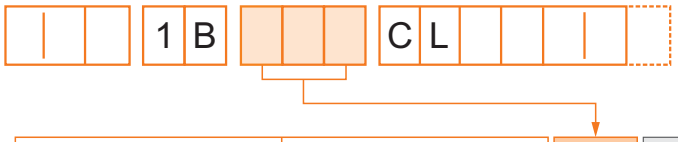


ZEG

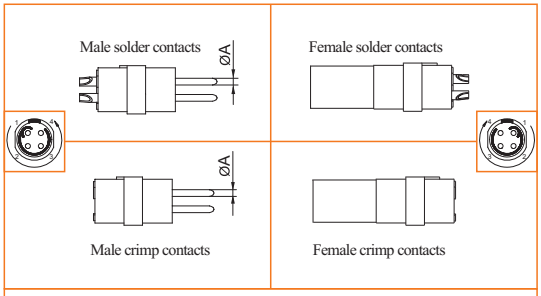
Fixed socket, nut fixing, key(G)

Note: Panel cut-out,nut fixing torque,(page01-40)





1B Series Insert configuration



Reference	Contact		Contact type				Test voltage (kV rms)				Rated current (A)
							Solder		Crimp		
	Number of contact	Cable (mm)	Solder	Crimp	PCB straight	PCB angled	Contact ⬍ Contact	Contact ⬍ Housing	Contact ⬍ Contact	Contact ⬍ Housing	
302	2	1.3	●	●	●	●	1.50	1.35	1.70	1.45	15.0
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

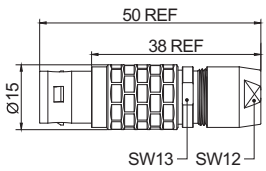
[1)] for male contacts

Calculation Standard: Working Voltage = Test Voltage / 3

Note: In certain applications, the safety of electrical equipment has stricter requirements on the rated voltage. In such cases, the value of the rated voltage is determined by the creepage distance between live parts.

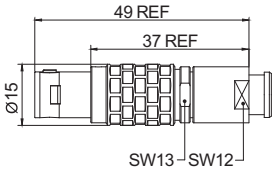
| | | 2 | B | | | | C | L | | | | | |

TGG
Straight plug, key(G), cable collet

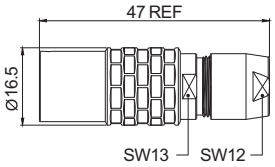


TGG
Straight plug, key(G), cable collet and nut for fitting a bend relief

Note: The bend relief must be ordered separately(page 01-41)

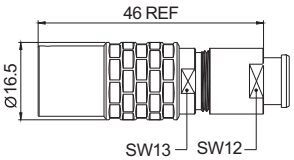


DHG
Free socket, key(G), cable collet



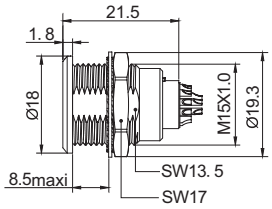
DHG
Free socket, key(G), cable collet and nut for fitting a bend relief

Note: The bend relief must be ordered separately(page 01-41)



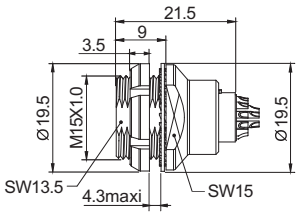
ZGG
Fixed socket, nut fixing, key(G)

Note: Panel cut-out,nut fixing torque,(page01-40)

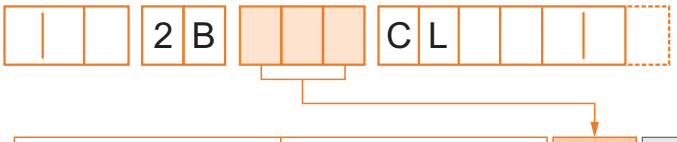


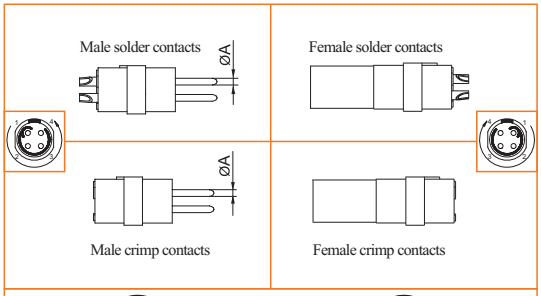
ZEG
Fixed socket, nut fixing, key(G)

Note: Panel cut-out,nut fixing torque,(page01-40)



2B Series Insert configuration





Reference	Contact		Contact type				Test voltage (kV rms)				Rated current (A)
							Solder		Crimp		
	Number of contact	Cable (mm)	Solder	Crimp	PCB straight	PCB angled	Contact ⇕ Contact	Contact ⇕ Housing	Contact ⇕ Contact	Contact ⇕ Housing	
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

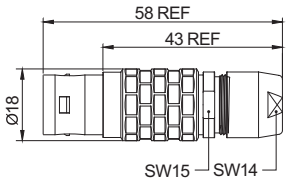
Calculation Standard: Working Voltage = Test Voltage / 3

Note: In certain applications, the safety of electrical equipment has stricter requirements on the rated voltage. In such cases, the value of the rated voltage is determined by the creepage distance between live parts.

| | | 3 | B | | | | C | L | | | | | |

TGG

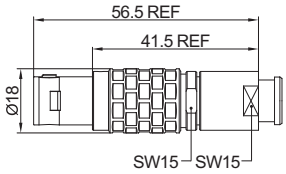
Straight plug, key(G), cable collet



TGG

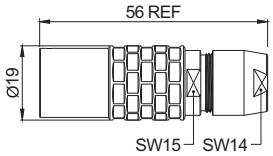
Straight plug, key(G), cable collet and nut for fitting a bend relief

Note: The bend relief must be ordered separately(page 01-41)



DHG

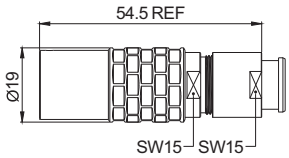
Free socket, key(G), cable collet



DHG

Free socket, key(G), cable collet and nut for fitting a bend relief

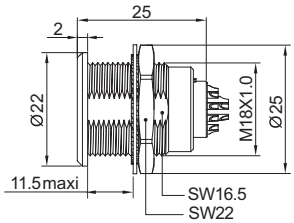
Note: The bend relief must be ordered separately(page 01-41)



ZGG

Fixed socket, nut fixing, key(G)

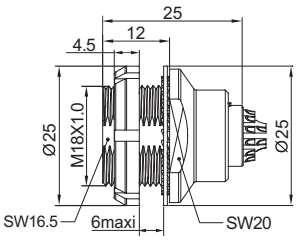
Note: Panel cut-out,nut fixing torque,(page01-40)



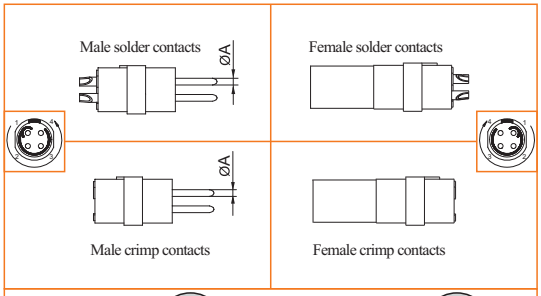
ZEG

Fixed socket, nut fixing, key(G)

Note: Panel cut-out,nut fixing torque,(page01-40)



3B Series Insert configuration



Reference	Contact		Contact type				Test voltage (kV rms)				Rated current (A)
	Number of contact	Cable (mm)	Solder	Crimp	PCB straight	PCB angled	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	1.3 2.0	●	●	●	●	1.35 1.35	1.05 1.05	1.10 1.10	1.05 1.05	6.0 15.0
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

● Regular model, preferred
● In development

Calculation Standard: Working Voltage = Test Voltage / 3

Note: In certain applications, the safety of electrical equipment has stricter requirements on the rated voltage. In such cases, the value of the rated voltage is determined by the creepage distance between live parts.

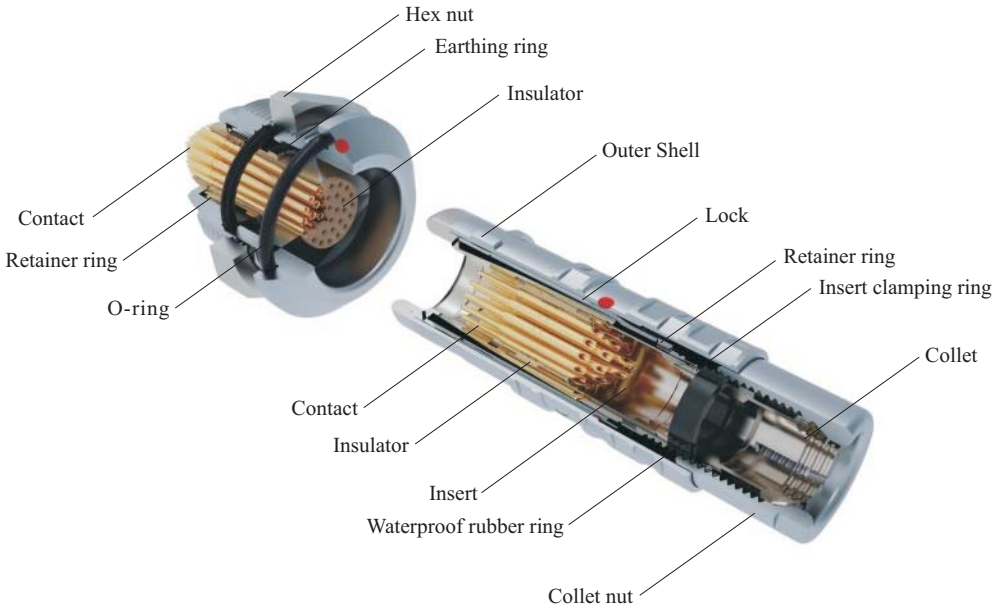
Standard of the Push-Pull self-latching system

—keying system

K Series

IP68

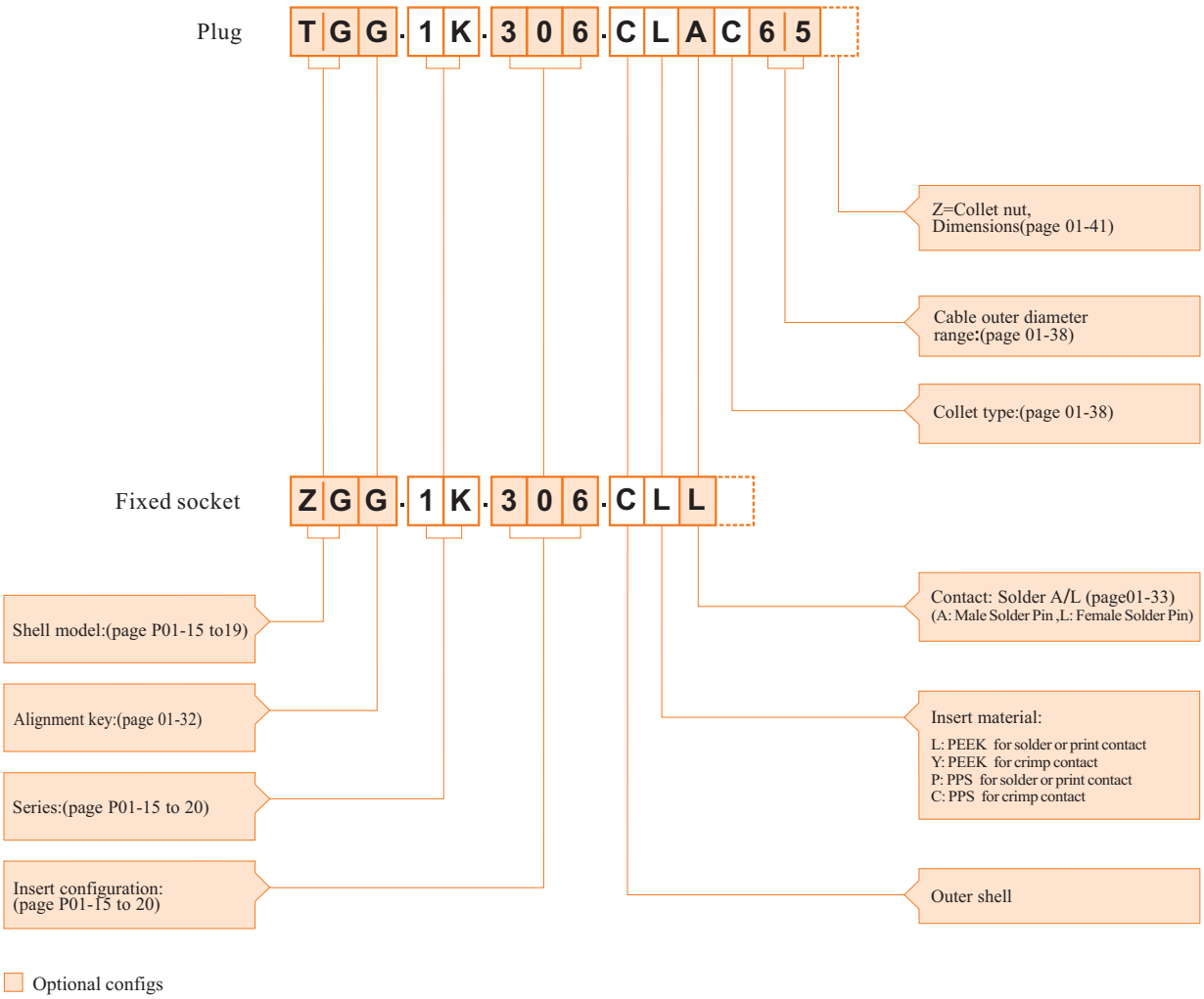
Part Section Showing Internal Components



Material and spec

Specifications	K 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	IP68（mated）	
Mating cycle	＞5000	
Temperature range	-55℃~+200℃	
Insulation impedance	≥100 MΩ	
Shielding efficiency	at10MHz＞95dB/at 1GHz＞80dB	
Salt spray test	＞144 hrs	＞48 hrs

Part Numbering System



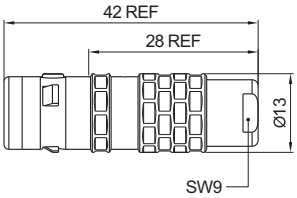
TGG.1K.306.CLAC65 = straight plug with key (G) and cable collet, 1K series, multipole type with 6 contacts, outer shell in chrome-plated brass, PEEK insulator, male solder contacts, C type collet for 6.1-6.5mm diameter cable.

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

		1	K				C	L				

TGG

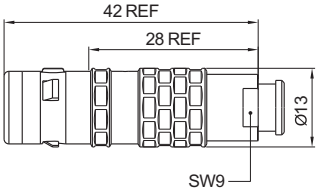
Straight plug, key(G), cable collet



TGG

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

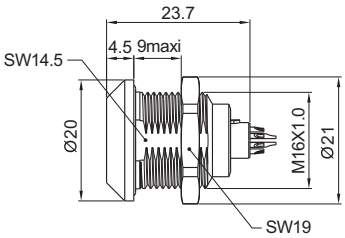
Note: The bend relief must be ordered separately(page 01-41)



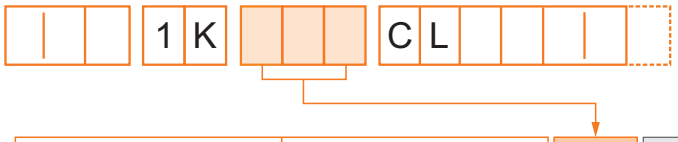
ZGG

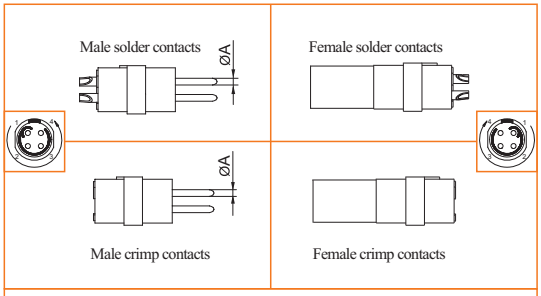
Fixed socket, nut fixing, key(G)

Note: Panel cut-out,nut fixing torque,(page01-40)



1K Series Insert configuration





	Reference	Contact		Contact type				Test voltage (kV rms)				Rated current (A)
		Number of contact	Cable (mm)	Solder	Crimp	PCB straight	PCB angled	Solder		Crimp		
								Contact ⬍ Contact	Contact ⬍ Housing	Contact ⬍ Contact	Contact ⬍ Housing	
	302	2	1.3	●	●	●	●	1.50	1.35	1.70	1.45	15.0
	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

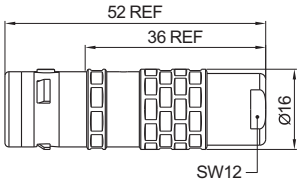
Calculation Standard: Working Voltage = Test Voltage / 3

Note: In certain applications, the safety of electrical equipment has stricter requirements on the rated voltage. In such cases, the value of the rated voltage is determined by the creepage distance between live parts.

		2	K				C	L				

TGG

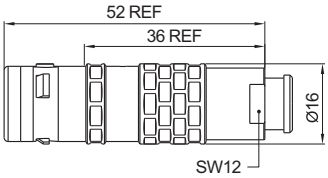
Straight plug, key(G), cable collet



TGG

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

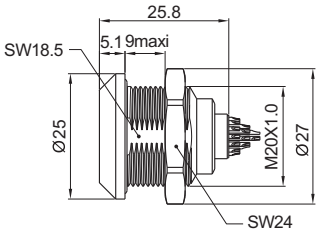
Note: The bend relief must be ordered separately(page 01-41)



ZGG

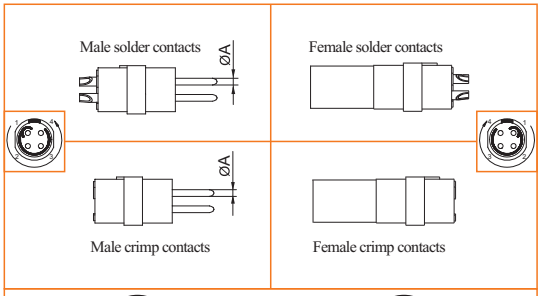
Fixed socket, nut fixing, key(G)

Note: Panel cut-out,nut fixing torque,(page01-40)



		2	K				C	L				

2K Series Insert configuration



Reference	Contact		Contact type				Test voltage (kV rms)				Rated current (A)
							Solder		Crimp		
	Number of contact	Cable (mm)	Solder	Crimp	PCB straight	PCB angled	Contact ⇕ Contact	Contact ⇕ Housing	Contact ⇕ Contact	Contact ⇕ Housing	
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

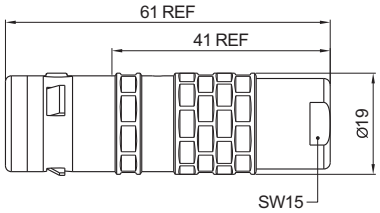
Calculation Standard: Working Voltage = Test Voltage / 3

Note: In certain applications, the safety of electrical equipment has stricter requirements on the rated voltage. In such cases, the value of the rated voltage is determined by the creepage distance between live parts.

		3	K				C	L				

TGG

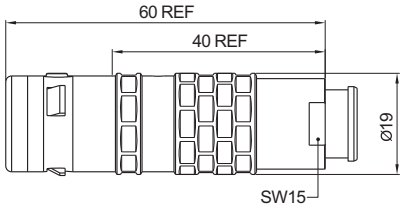
Straight plug, key(G), cable collet



TGG

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

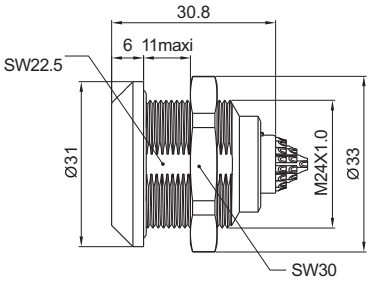
Note: The bend relief must be ordered separately(page 01-41)



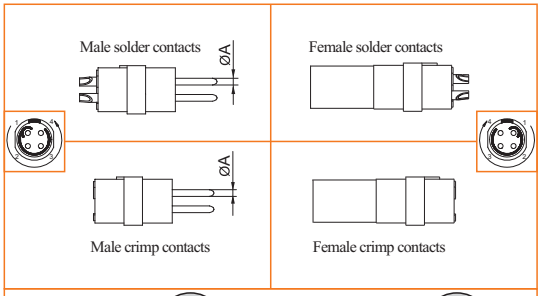
ZGG

Fixed socket, nut fixing, key(G)

Note: Panel cut-out,nut fixing torque,(page01-40)



3K Series Insert configuration



Reference	Contact		Contact type				Test voltage (kV rms)				Rated current (A)
	Number of contact	Cable (mm)	Solder	Crimp	PCB straight	PCB angled	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	1.3 2.0	●	●	●	●	1.35 1.35	1.05 1.05	1.10 1.10	1.05 1.05	6.0 15.0
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

● Regular model, preferred
● In development

Calculation Standard: Working Voltage = Test Voltage / 3

Note: In certain applications, the safety of electrical equipment has stricter requirements on the rated voltage. In such cases, the value of the rated voltage is determined by the creepage distance between live parts.

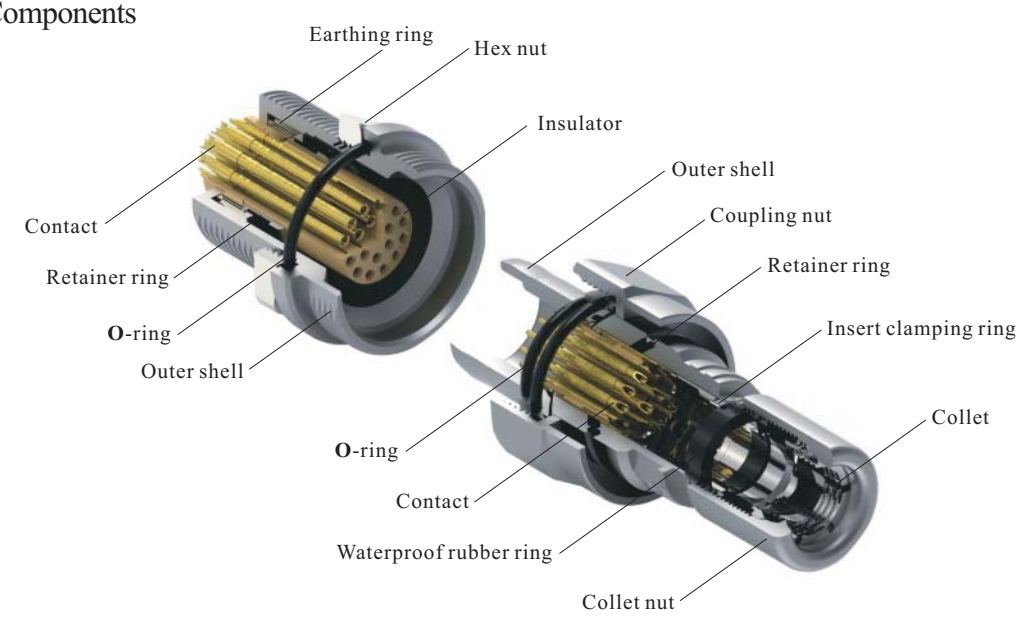
Screw coupling watertightness connectors

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

W Series

IP68

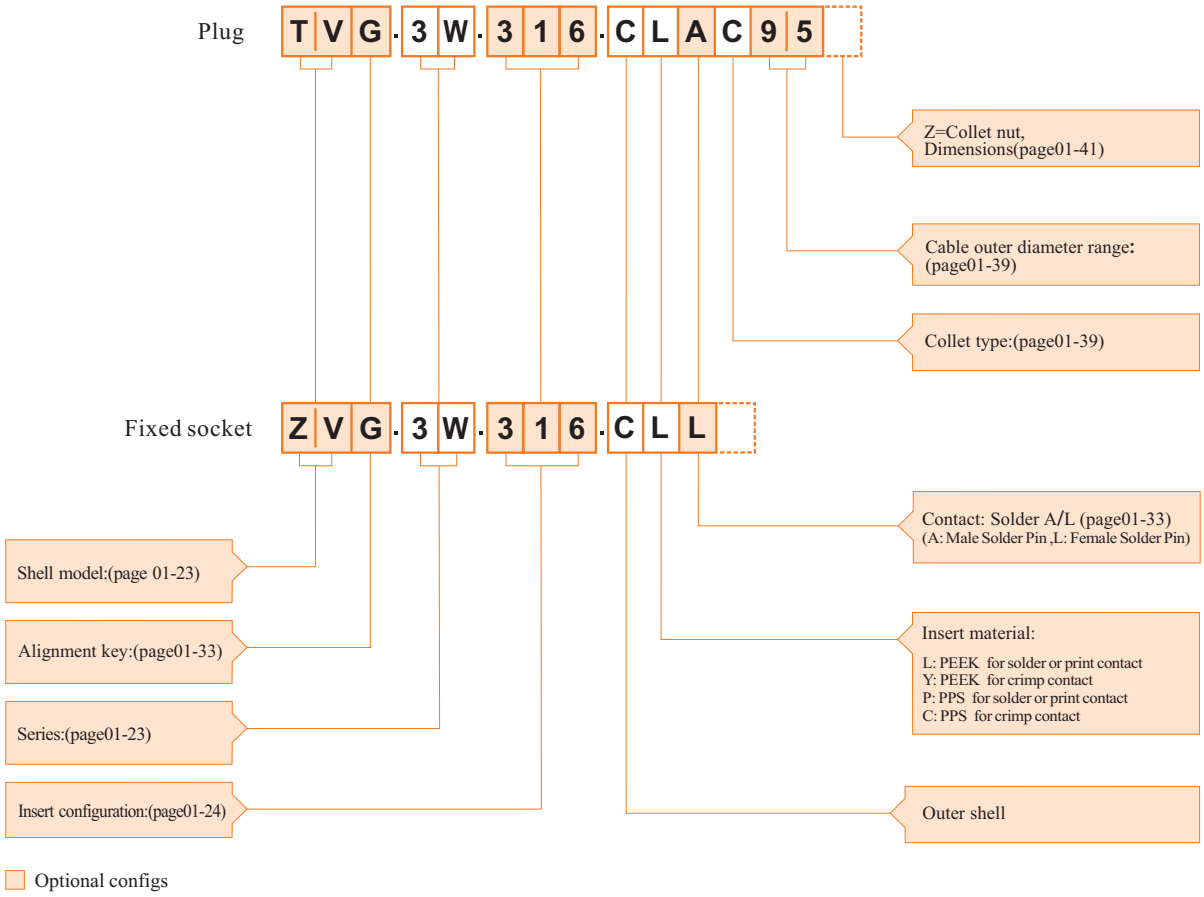
Part Section Showing Internal Components



Material and spec

Specifications	W Series connector	
Coupling	Threaded coupling	
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℃~+200℃	
Insulation impedance	≥100 MΩ	
Shielding efficiency	at10MHz＞95dB/at 1GHz＞80dB	
Salt spray test	＞144 hrs	＞48 hrs
Resistance to hydrostatic pressure (mated):	~30bars	

Part Numbering System



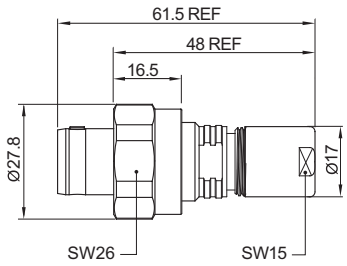
TVG.3W.316.CLAD95 = straight plug with key (G) and cable collet, 3W series, multipole type with 16 contacts, outer shell in chrome-plated brass, PEEK insulator, male solder contacts, C type collet for 9.1mm-9.5mm diameter cable.

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 solder contacts.

			3	W				C	L						

TVG

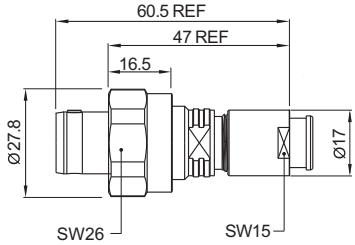
Straight plug, key(G), cable collet



TVG

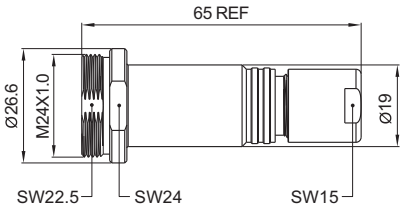
Straight plug, key(G), cable collet and nut for fitting a bend relief

Note: The bend relief must be ordered separately(page 01-41)



DVG

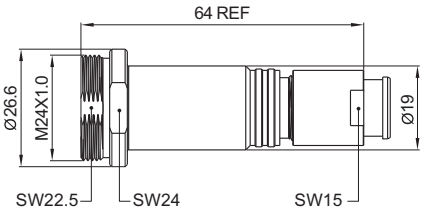
Free socket, key(G), cable collet



DVG

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

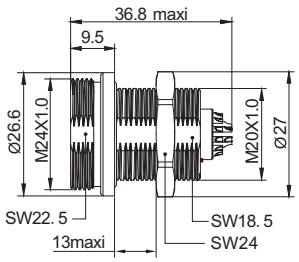
Note: The bend relief must be ordered separately(page 01-41)



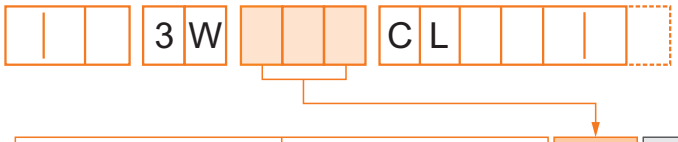
ZVG

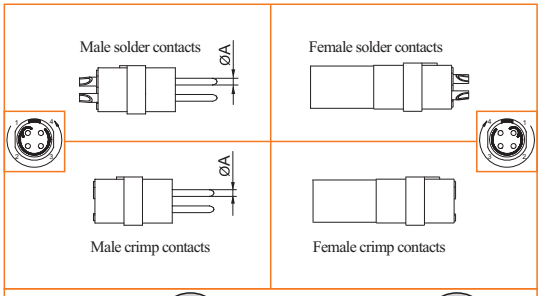
Fixed socket, nut fixing, key(G)

Note: Panel cut-out,nut fixing torque,(page01-40)



3W Series Insert configuration





Reference	Contact		Contact type				Test voltage (kV rms)				Rated current (A)
	Number of contact	Cable (mm)	Solder	Crimp	PCB straight	PCB angled	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	1.3 2.0	●	●	●	●	1.35 1.35	1.05 1.05	1.10 1.10	1.05 1.05	6.0 15.0
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

● Regular model, preferred

● In development

Calculation Standard: Working Voltage = Test Voltage / 3

Note: In certain applications, the safety of electrical equipment has stricter requirements on the rated voltage. In such cases, the value of the rated voltage is determined by the creepage distance between live parts.

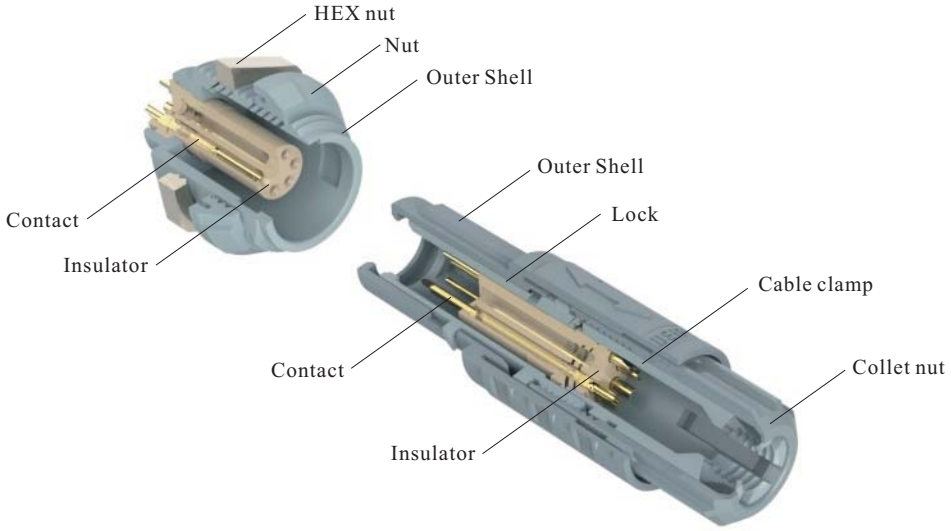
Medical self-locking plastic connectors

—keying system

P Series

IP50

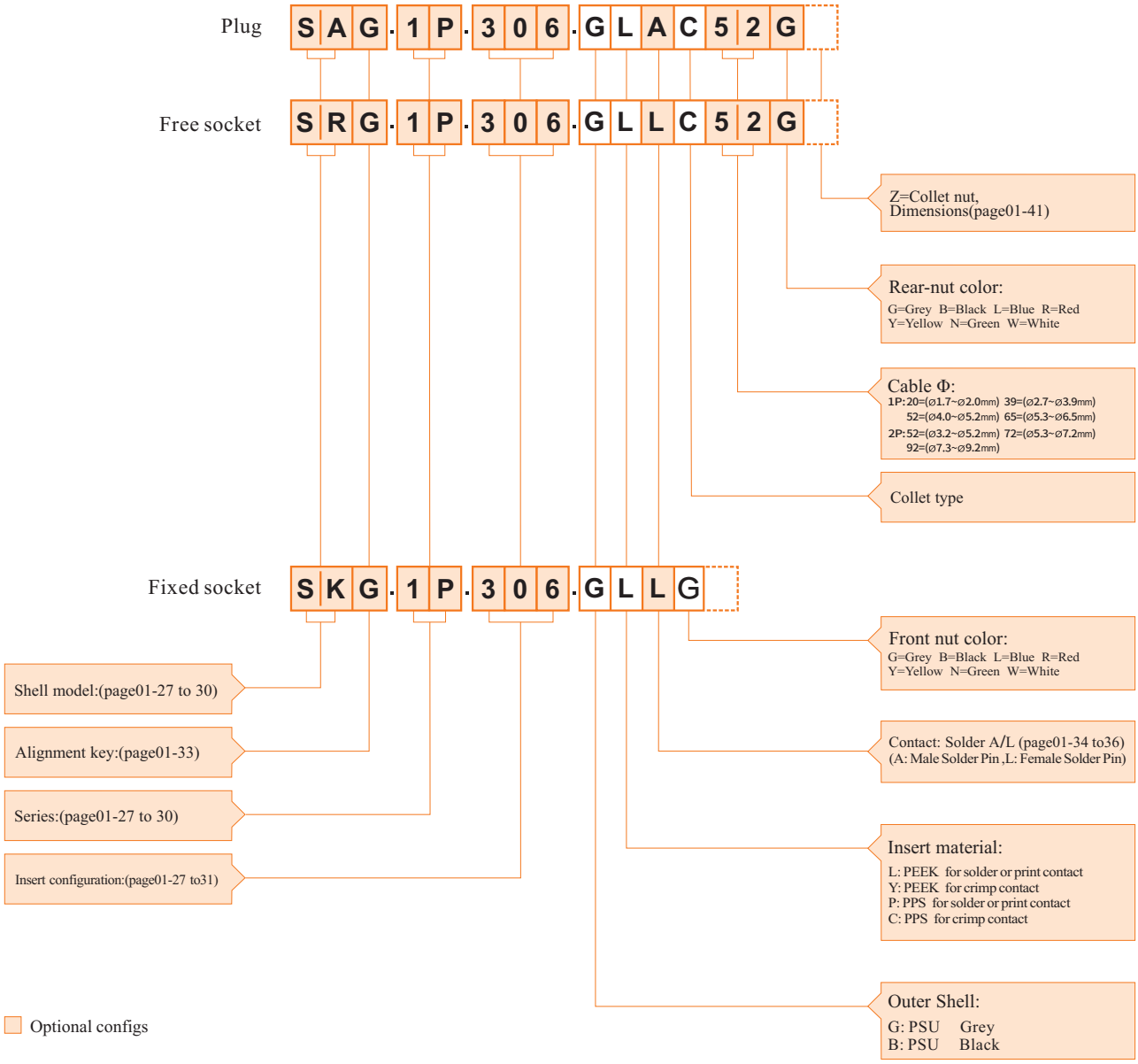
Part Section Showing Internal Components



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℃～+150℃	
Insulation impedance	≥100 MΩ	
Collet cut	PSU	

Part Numbering System



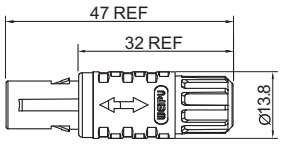
SAG.1P.306.GLAC52G = straight plug with key (G), 1P series, multipole type with 6 contacts, grey PSU outershell, PEEK insulator, male solder contacts, C type collet for 4.0mm-5.2mm diameter cable, and grey PSU Rear-nut.

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.

		1	P				G	L				

SAG

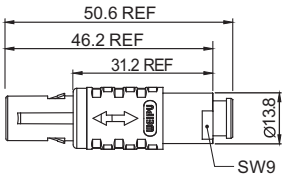
Straight plug, key(G), cable collet



SAG

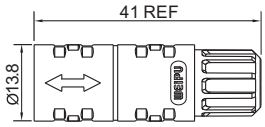
Straight plug, key(G), cable collet and nut for fitting a bend relief

Note: The bend relief must be ordered separately(page 01-41)



SRG

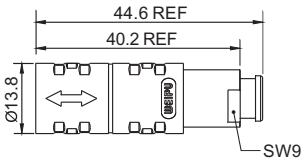
Free socket, key(G), cable collet



SRG

Free socket, key(G), cable collet and nut for fitting a bend relief

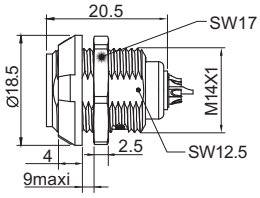
Note: The bend relief must be ordered separately(page 01-41)



SKG

Fixed socket with two nuts, key(G)

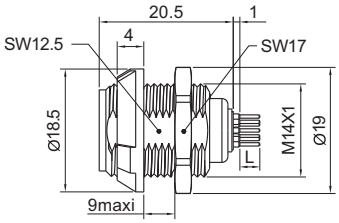
Note: Panel cut-out,nut fixing torque,(page01-40)

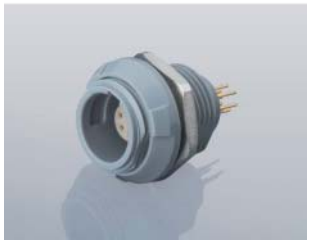


SKG (PCB straight)

Fixed socket with two nuts, key(G)
PCB straight

1、Length "L": see P01-34.
2、Note: Panel cut-out,nut fixing torque,(page01-40)
3、PCB drilling parameters: see P01-35.

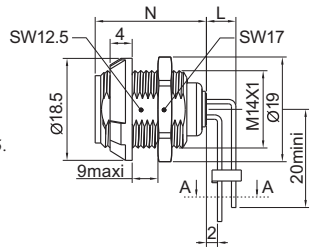


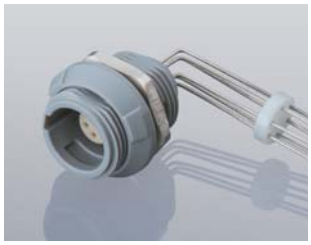


| | | 1 | P | | | | G | L | | | | |

SKG (PCB angled)

Fixed socket with two nuts, key(G)
PCB angled





1、Length "N": 302–308 inserts → 20.5; 309–314 inserts → 22.5.
Length "L": see P01-34.

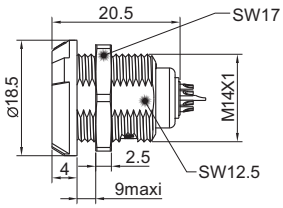
2、Note: Panel cut-out,nut fixing torque,(page01-40)

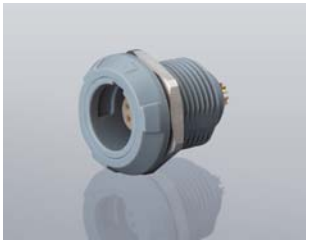
3、PCB drilling parameters: see P01-35.

SLG

Fixed socket, nut fixing, key(G)

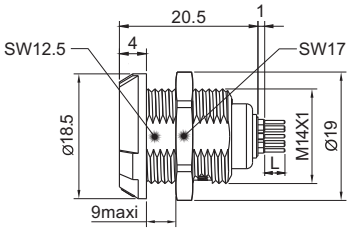
Note: Panel cut-out,nut fixing torque,(page01-40)

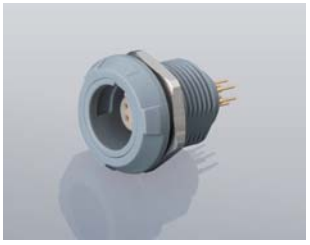




SLG (PCB straight)

Fixed socket, nut fixing, key(G)
PCB straight





1、Length "L": see P01-34.

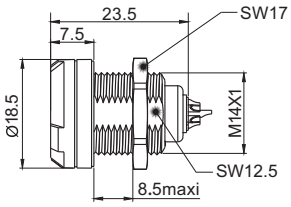
2、Note: Panel cut-out,nut fixing torque,(page01-40)

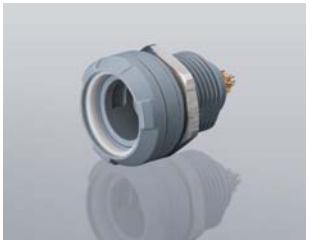
3、PCB drilling parameters: see P01-35.

SNG（IP64）

Fixed socket, nut fixing, key(G)

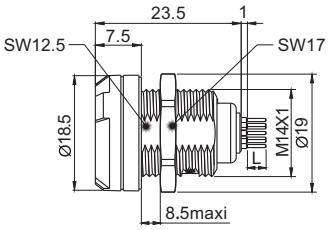
Note: Panel cut-out,nut fixing torque,(page01-40)

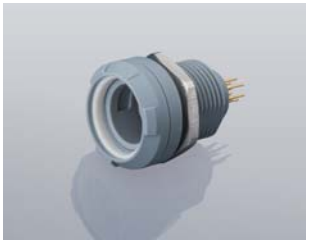




SNG (PCB straight)（IP64）

Fixed socket, nut fixing, key(G)
PCB straight





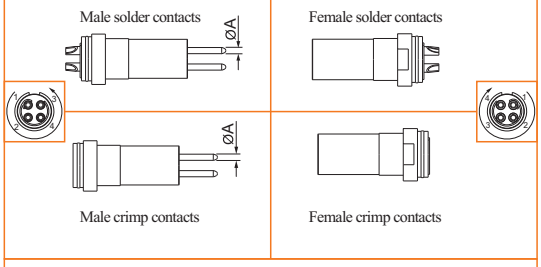
1、Length "L": see P01-34.

2、Note: Panel cut-out,nut fixing torque,(page01-40)

3、PCB drilling parameters: see P01-35.

		1	P				G	L				

1P Series Insert configuration



Reference	Contact		Contact type				Test voltage (kV rms)				Rated current (A)
							Solder		Crimp		
	Number of contact	Cable (mm)	Solder	Crimp	PCB straight	PCB angled	Contact ⬍ Contact	Contact ⬍ Housing	Contact ⬍ Contact	Contact ⬍ Housing	
302	2	1.3	●	●	●	●	1.2	—	1.2	—	10.0
304	4	0.9	●	●	●	●	1.2	—	1.2	—	8.0
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	—	—	—	3.0
310 ★	10	0.5	●	—	●	●	0.85	—	—	—	3.0
314 ★	14	0.5	●	—	●	●	0.6	—	—	—	2.0

● Regular model, preferred

● In development

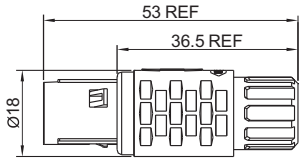
★ Compatible only with WEIPU Connectors

Calculation Standard: Working Voltage = Test Voltage / 3

Note: In certain applications, the safety of electrical equipment has stricter requirements on the rated voltage. In such cases, the value of the rated voltage is determined by the creepage distance between live parts.

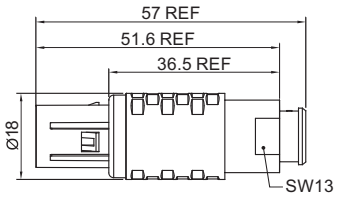
2 P G L

SAB
Straight plug, key(B), cable collet

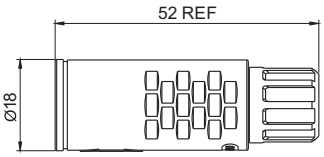


SAB
Straight plug, key(B), cable collet and nut for fitting a bend relief

Note: The bend relief must be ordered separately(page 01-41)

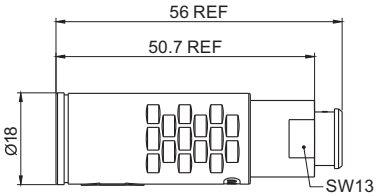


SRB
Free socket, key(B), cable collet



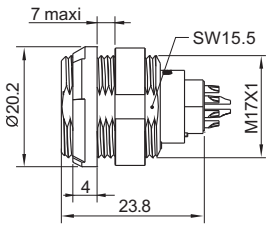
SRB
Free socket, key(B), cable collet and nut for fitting a bend relief

Note: The bend relief must be ordered separately(page 01-41)



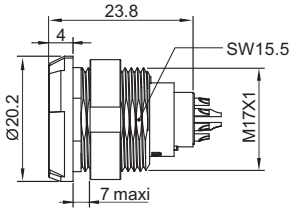
SKB
Fixed socket with two nuts, key(B)

Note: Panel cut-out,nut fixing torque,(page01-40)



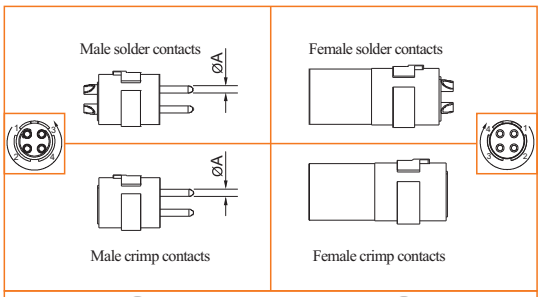
SLB
Fixed socket with two nuts, key(B)

Note: Panel cut-out,nut fixing torque,(page01-40)



		2	P				G	L				

2P Series Insert configuration



Reference	Contact		Contact type				Test voltage (kV rms)				Rated current (A)
							Solder		Crimp		
	Number of contact	Cable (mm)	Solder	Crimp	PCB straight	PCB angled	Contact ⬍ Contact	Contact ⬍ Housing	Contact ⬍ Contact	Contact ⬍ Housing	
302	2	2.0	●	●	●	●	2.10	—	2.10	—	25.0
303	3	1.6	●	●	●	●	2.40	—	2.40	—	17.0
304	4	1.3	●	●	●	●	1.85	—	1.85	—	15.0
305	5	1.3	●	●	●	●	1.75	—	1.75	—	14.0
306	6	1.3	●	●	●	●	1.35	—	1.35	—	12.0
307	7	1.3	●	●	●	●	1.75	—	1.75	—	11.0
308	8	0.9	●	●	●	●	1.50	—	1.50	—	10.0
310	10	0.9	●	●	●	●	1.45	—	1.45	—	8.0
312	12	0.7	●	●	●	●	1.25	—	1.25	—	7.0
314	14	0.7	●	●	●	●	1.15	—	1.15	—	6.5
316	16	0.7	●	●	●	●	0.95	—	0.95	—	6.0
318	18	0.7	●	●	●	●	0.85	—	0.85	—	5.5
319	19	0.7	●	●	●	●	0.95	—	0.95	—	5.0
326	26	0.5	●	—	●	●	0.95	—	—	—	2.0
332	32	0.5	●	—	●	—	0.7	—	—	—	1.5

● Regular model, preferred

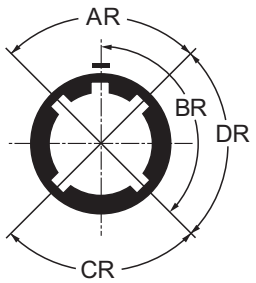
● In development

Calculation Standard: Working Voltage = Test Voltage / 3

Note: In certain applications, the safety of electrical equipment has stricter requirements on the rated voltage. In such cases, the value of the rated voltage is determined by the creepage distance between live parts.

Alignment key (B Series)

			1	B				C	L					



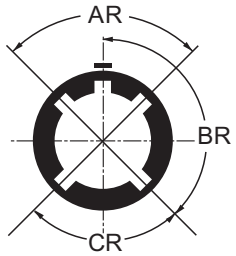
Front view of a socket

Ref.	Nb of keys	Series							Contact type		Note
		Angles	00	0B	1B	Angles	2B	3B	Plug	Socket	
G	1	–	0°	0°	0°	–	0°	0°	Male	Female	●
A	2	AR	30°	30°	30°	AR	30°	30°	Male	Female	●
B	2		60°	60°	60°		45°	45°	Male	Female	●
C	2		–	90°	90°		60°	60°	Male	Female	●
D	2	BR	–	135°	135°	CR	95°	95°	Male	Female	○
E	2		–	145°	145°	BR	120°	120°	Male	Female	○
F	2		–	155°	155°		145°	145°	Male	Female	○
J	2	CR	45°	45°	45°	AR	37.5°	37.5°	Female	Male	●
K	2		–	70°	70°		52.5°	52.5°	Female	Male	○
L	2		–	80°	80°	CR	70°	70°	Female	Male	○
M	2	DR	–	110°	–	–	–	–	Female	Male	○
Y	3	–	–	–	–	BR	112.5°	126°	Male	Female	●
		–	–	–	–	CR	100°	102°			

● Regular model, preferred
○ Special order alternative

Alignment key (K Series)

			1	K				C	L					



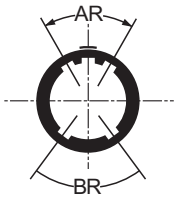
Front view of a socket

Ref.	Nb of keys	Series				Contact type		Note
		Angles	1K	2K	3K	Plug	Socket	
G	1	–	0°	0°	0°	Male	Female	●
A	2	AR	30°	30°	30°	Male	Female	●
B	2		45°	45°	45°	Male	Female	●
C	2		60°	60°	60°	Male	Female	●
D	2	CR	95°	95°	95°	Male	Female	○
E	2	BR	120°	120°	120°	Male	Female	○
F	2		145°	145°	145°	Male	Female	○
L	2	CR	75°	75°	75°	Female	Male	●

● Regular model, preferred
○ Special order alternative

Alignment key (W Series)

			3	W				G	L			



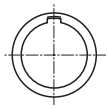
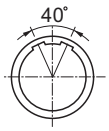
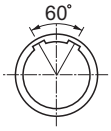
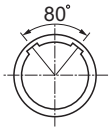
Front view of a socket

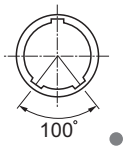
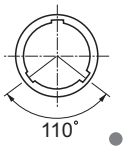
Ref.	Nb of keys	Angles	Series	Contact type		Note
			3W	Plug	Socket	
G	1	–	0°	Male	Female	●
A	2	AR	30°	Male	Female	●
B	2		45°	Male	Female	●
L	2	BR	75°	Female	Male	○

● Regular model, preferred
○ Special order alternative

Alignment key (P Series)

			1	P				G	L			

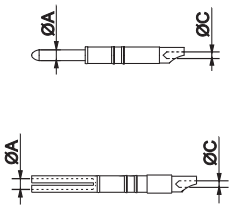
Ref.(1P)	G	A	B	C
Front view of a socket	 ●	 ●	 ●	 ●
Nb of keys	1	2	2	2

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

● Regular model, preferred
● In development

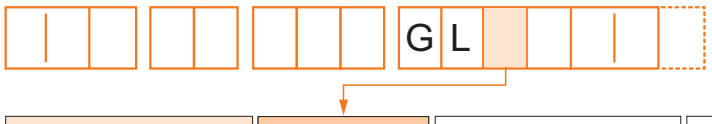
Contacts reference for B, K and W series plugs, free or fixed sockets

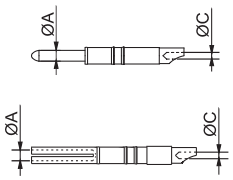
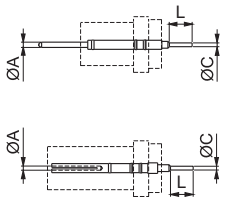
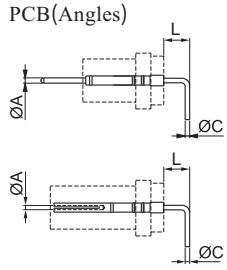
								C	L			

Contact type	Reference		Contact			Conductor						F_r (N)
						Solid		Stranded				
	Male	Female	ØA (mm)	ØC (mm)	Form per frg.	AWG max.	Section max. (mm^2)	AWG min.	AWG max.	Secrion (mm^2) min.	Secrion (mm^2) max.	
Solder 	A	L	0.35	0.40	–	28	0.09	–	30	–	0.05	–
			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 øC.

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



Contact type	Reference		Contact			Conductor						F_r (N)
						Solid		Stranded				
								AWG		Secrion (mm^2)		
	Male	Female	ØA (mm)	ØC (mm)	Form per frg.	AWG max.	Section max. (mm^2)	min.	max.	min.	max.	
Solder 	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	–
PCB 	D	N	Dimensions L and C, see P01-34 PCB straight contact length parameters									
PCB(Angles) 	W	V	Dimensions L and C, see P01-34 PCB angled contact length parameters									

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 øC.

P series PCB straight contact length

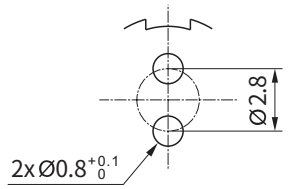
Series	Reference	Length	
		ØC	L
1P	302~305	0.7	5.0
	306~314	0.5	3.0

P series PCB angled contact length

Series	Reference	Length	
		ØC	L
1P	302	0.8	5.4
	304	0.6	5.2
	305/306/307/308	0.6	7.7
	309/310	0.6	10.3
	314	0.6	12.9

PCB drilling pattern

For straight contacts



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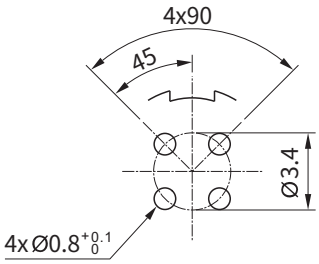

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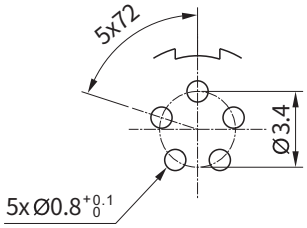

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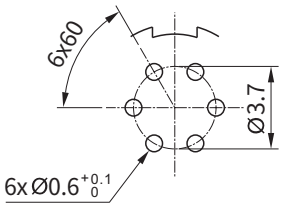

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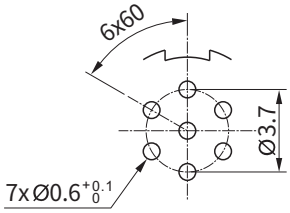

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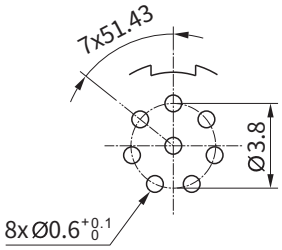
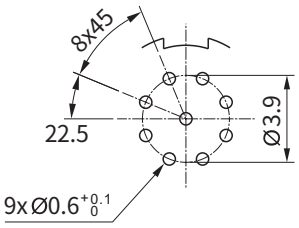


308



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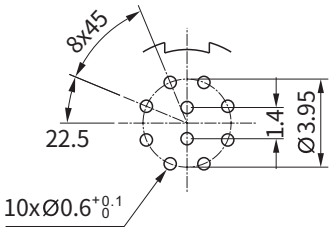

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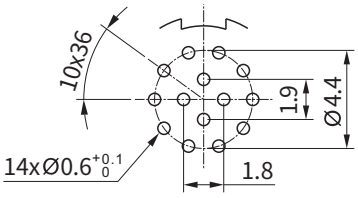
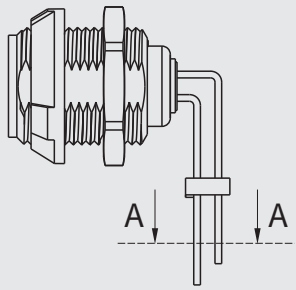
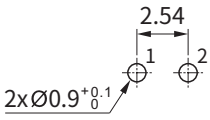


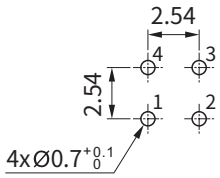
314

For 90 elbow contacts(A-A view)





302



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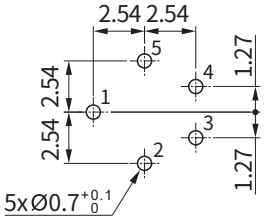
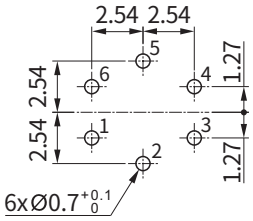


305



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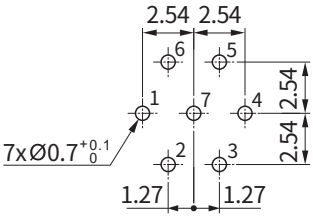

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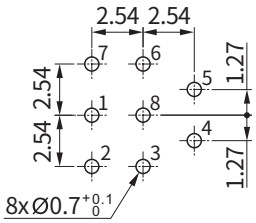
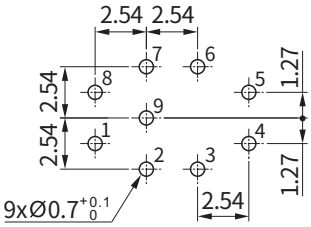


308



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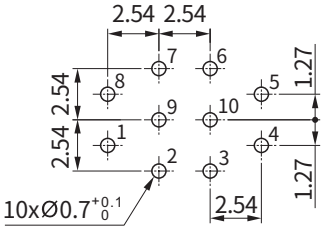

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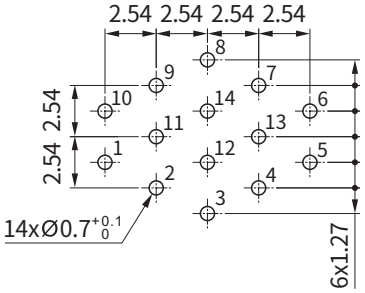
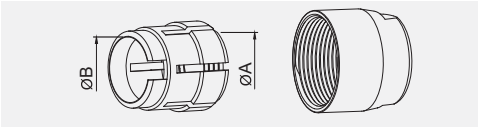


314

Collets (B series)

D type collets for B series

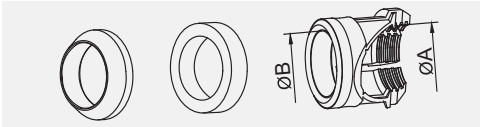


	Reference		Collet Ø		Cable Ø		Notes
	Type	Code	ØA	ØB	max.	min.	
00	D	22	2.2	—	2.2	1.4	
	D	27	2.7	—	2.7	> 2.2	
	D	35	3.5	3.0	3.5	> 2.7	
0B	D	22	2.2	—	2.2	1.4	
	D	32	3.2	—	3.2	> 2.2	
	D	42	4.2	—	4.2	> 3.2	
	D	52	5.2	4.7	5.2	> 4.2	
	D	56	5.6	4.7	5.6	> 5.2	1)
1B	D	42	4.2	—	4.2	3.1	
	D	52	5.2	—	5.2	> 4.2	
	D	62	6.2	—	6.2	> 5.2	
	D	72	7.2	6.7	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	7.7	—	7.7	> 6.2	
	D	92	9.2	—	9.2	> 7.7	
	D	10	10.2	—	10.0	> 9.2	
	D	11	11.0	10.2	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 (K series)

C type collets for W series



	Reference		Collet Ø		Cable Ø		Notes
	Type	Code	ØA	ØB	max.	min.	
1K	C	15	1.6	—	1.5	1.3	
	C	20	2.2	—	2.0	1.6	
	C	25	3.2	—	2.5	2.1	
	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	6.2	5.5	5.1	
	C	60	6.2	6.2	6.0	5.6	
	C	65	7.2	6.7	6.5	6.1	
2K	C	15	2.2	—	1.5	1.3	
	C	20	2.2	—	2.0	1.6	
	C	25	3.2	—	2.5	2.1	
	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	8.2	7.5	7.1	
	C	80	8.2	8.2	8.0	7.6	
	C	85	8.6	8.6	8.5	8.1	
3K	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	

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.

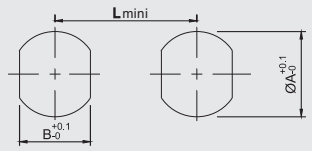
Collets (W series)

C type collets for 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



B series

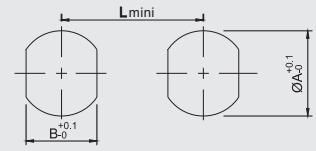
Series	ØA	B	L
00	7.1	6.4	12.5
0B	9.1	8.3	14.5
1B	12.1	10.6	18.5
2B	15.1	13.6	22.5
3B	18.2	16.6	27.0

Mounting nut torque

Series	Nm	
	Metal shell	Plastic shell
00	1.0	0.4
0B	2.5	0.4
1B	4.5	0.7
2B	6.0	0.8
3B	9.0	1.0

1N=0.102kg

K



K series

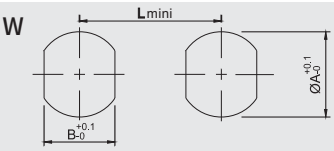
Series	ØA	B	L
1K	16.1	14.6	22.5
2K	20.2	18.6	29.0
3K	24.2	22.6	35.5

Mounting nut torque

Series	Nm
1K	7.0
2K	9.0
3K	12.0

1N=0.102kg

W



W series

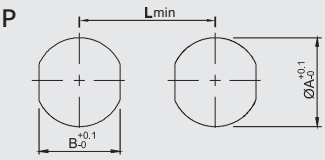
Series	ØA	B	L
3W	20.2	18.6	30.0

Mounting nut torque

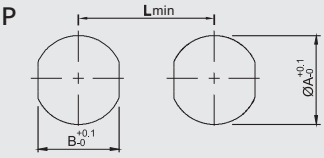
Series	Nm	
	Receptacle installation	Plug connection
3W	12	3

1N=0.102kg

1P



2P



P series

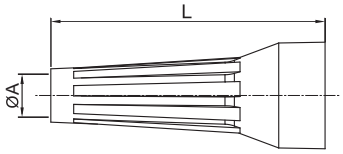
Series	ØA	B	L
1P	14	12.6	23.5
2P	17.1	15.6	26

Mounting nut torque

Series	Nm
1P	1.5
2P	0.8

1N=0.102kg

SRA Bend relief (TPU)



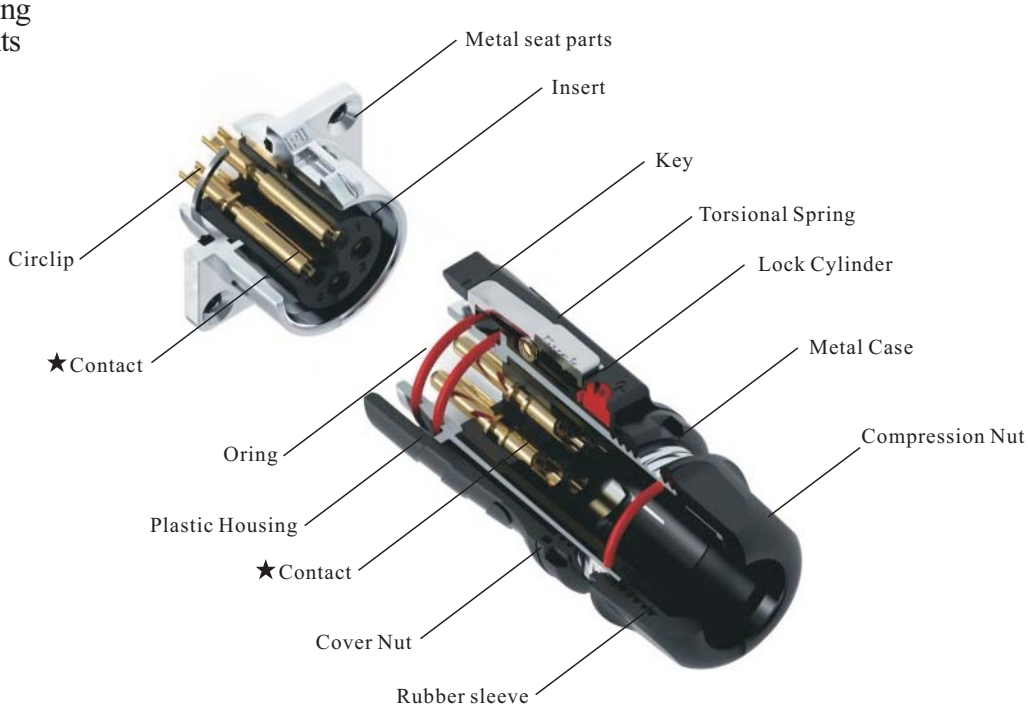
Part number	Series	Bend relief		Cable Ø		Material	Temperature range
		A	L	max.	min.		
SRA.00.012.DG	00	1.2	22	1.4	1.1	TPU Thermoplastic Polyurethane	-40°C～80°C
SRA.00.018.DG		1.8	22	2.1	1.8		
SRA.00.025.DG		2.5	22	2.8	2.5		
SRA.00.032.DG		2.8	22	3.1	2.8		
SRA.00.045.DG		3.2	22	3.5	3.2		
SRA.0B.025.DG	0B	2.5	24	2.9	2.5		
SRA.0B.030.DG		3.0	24	3.4	3.0		
SRA.0B.035.DG		3.5	24	3.9	3.5		
SRA.0B.040.DG		4.0	24	4.4	4.0		
SRA.0B.045.DG		4.5	24	5.2	4.5		
SRA.1B.025.DG	1B 1P 1K	2.5	30	2.9	2.5		
SRA.1B.030.DG		3.0	30	3.4	3.0		
SRA.1B.035.DG		3.5	30	3.9	3.5		
SRA.1B.040.DG		4.0	30	4.4	4.0		
SRA.1B.045.DG		4.5	30	4.9	4.5		
SRA.1B.054.DG		5.4	30	6.0	5.4		
SRA.1B.065.DG		6.5	30	7.0	6.5		
SRA.2B.040.DG	2B 2P 2K	4.0	36	4.5	4.0		
SRA.2B.045.DG		4.5	36	5.0	4.5		
SRA.2B.050.DG		5.0	36	5.5	5.0		
SRA.2B.060.DG		6.0	36	6.5	6.0		
SRA.2B.070.DG		7.0	36	7.7	7.0		
SRA.2B.080.DG		7.8	36	8.8	7.8		
SRA.3B.050.DG	3B 3W 3K	4.5	42	5.2	4.5		
SRA.3B.060.DG		6.0	42	6.9	6.0		
SRA.3B.070.DG		7.0	42	7.9	7.0		
SRA.3B.080.DG		8.0	42	8.9	8.0		
SRA.3B.090.DG		9.0	42	10.0	9.0		

Bend relief sleeve color code chart

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

Push-pull self-latching connector

Part Section Showing Internal Components



Material and spec

Specifications	WK16 WK20 WK24 WK28
Coupling	Push-lock connection
Shell	PPE, Zinc alloy, Fire resistance: V-0
Contact material	Brass with gold plating
Insert material	PPS, PBT, max temperature 260 ℃
Termination	Solder: Ø1mm、Ø1.5mm、Ø2mm、Ø2.5mm、Ø3mm、Ø3.5mm、Ø5mm Screw: Ø2.5mm、Ø3mm、Ø3.5mm Crimp: Ø1mm、Ø1.5mm、Ø2.5mm、Ø3.5mm、Ø5.5mm Angled screw: Ø3mm、Ø3.5mm、Ø4mm
Key lock	Yes
IP rating	IP68 (mated)
Mating cycle	500
Temperature range	-40℃~+105℃
Insulation resistance	2000 MΩ

WK Series Push-lock 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.

WEIPU
PRODUCT
patent

- Quick installation of shielding function
- Button lock function, lock to prevent insertionPull out the head and use tools to unlock it
- The rubber pad is not exposed to prevent aging of the rubber pad

WK SERIES

Part number system

WK □ □ □ □ – □ – □

Series code

Panel cutout diameter
16, 20, 24, 28

Contact gender
J: Male contact
K: Female contact

Number of solder contact
2，3，4，5，6，7，8，9
10,12,15,16,17,19,20,24,26,35

Number of screw contact
2，3，4，5，7，8，10

Number of crimp contact
1, 2 , 3 , 4, 5, 7, 8, 9, 12, 15, 19

Number of angled screw
2，3，4，5

★ Contacts can be male or female

Cable outer diameter range

Termination type:
1: Solder
2: Screw
3: Crimp
8: Angled screw

Shell structure and cable fix type :
Z: Square flange receptacle
ZMQ: Front-nut mount receptacle
ZM: Rear-nut mount receptacle
ZP: Square-flange shielded receptacle
ZMP: Square-flange shielded receptacle
ZMQP: Front-nut mount shielded receptacle
ZE: In-line receptacle with plastic clamping-nut
ZEP: In-line shielded receptacle with metal clamping-nut
TE: Plug with plastic clamping-nut
TEP: Shielded Plug with metal clamping-nut

WK SIGNAL DATA SERIES

Part number system

WK 24 □ □ □ – □

Series code

Panel cutout diameter

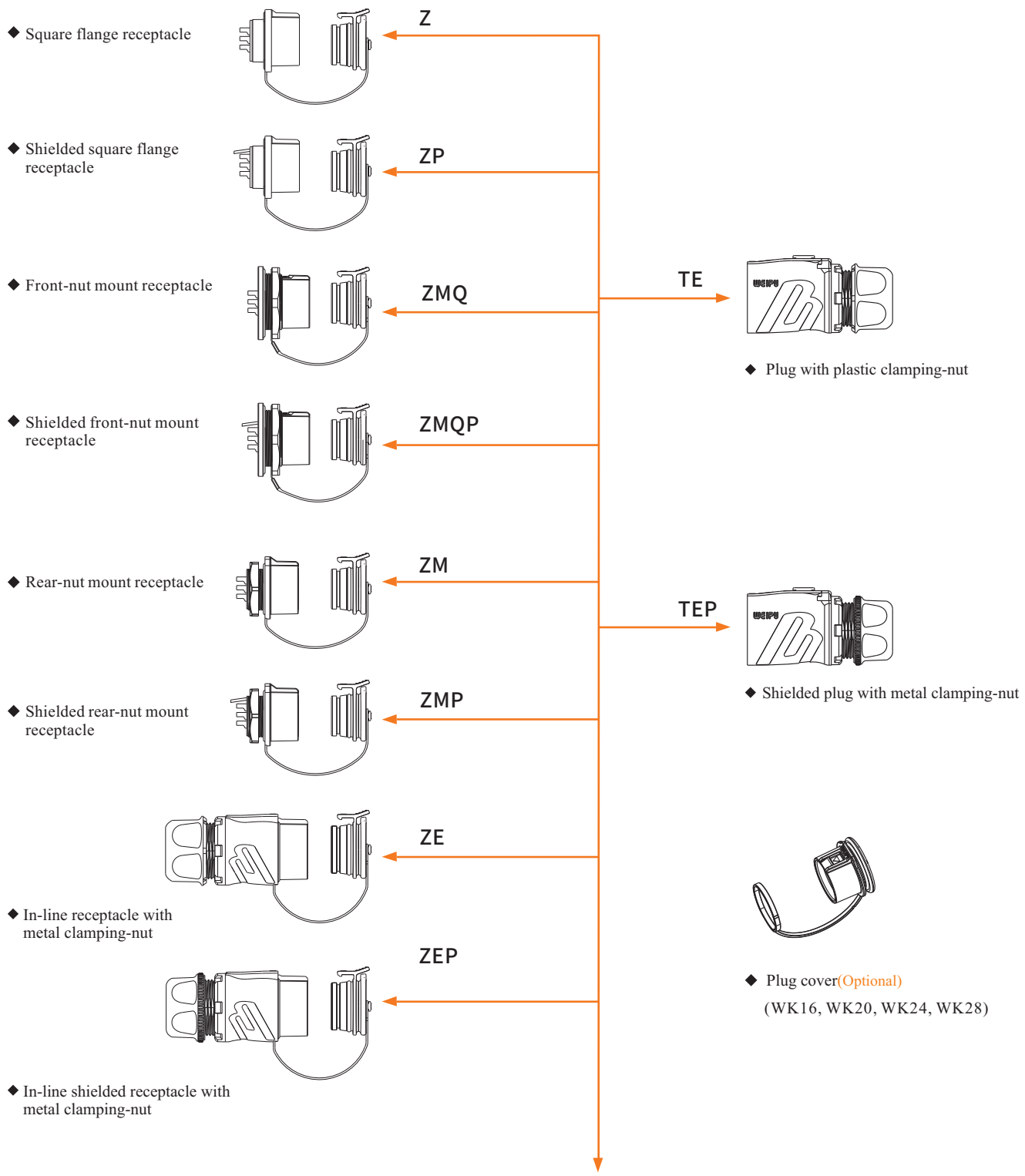
Contact gender
J: Male contact
K: Female contact

RJ45
LC
HDMI2.0
USB3.0

Cable length
- Wireless range：(RJ45、Z、ZMQ、ZM)
- Cable length：1.0 m，3.0 m，5.0 m
(LC、HDMI2.0、USB3.0、ZE、ZEP、TE、TEP)

Shell structure and cable fix type :
Z: Square flange receptacle
ZMQ: Front-nut mount receptacle
ZM: Rear-nut mount receptacle
ZE: In-line receptacle with metal clamping-nut
ZEP: In-line shielded receptacle with metal clamping-nut
TE: Plug with plastic clamping-nut
TEP: Shielded plug with metal clamping-nut

WK Series Mating diagram



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

★ Angled Screw contact spec see P23

★ Contacts can be male or female

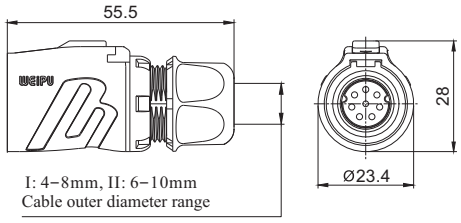
★ Crimp contact spec see P22

★ Screw contact spec see P23

WK16__TE__

Plug with plastic clamping-nut: TE
Two types: male and female contacts

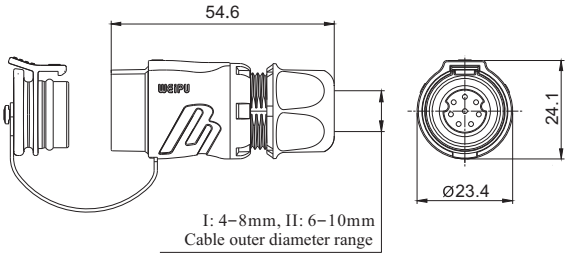
Optional plug cover



WK16__ZE__

In-line receptacle with metal clamping-nut:ZE

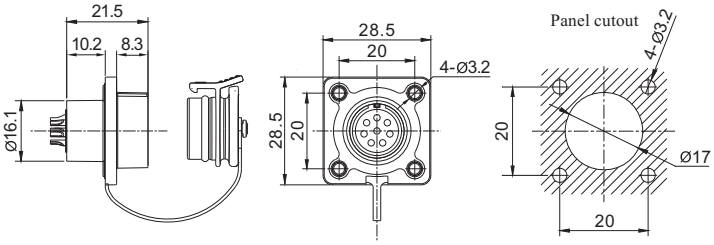
Two types: male and female contacts



WK16__Z__

Square flange receptacle: Z

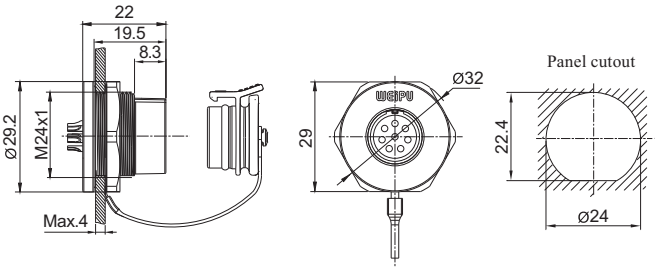
Two types: male and female contacts



WK16__ZMQ__

Front-nut mount receptacle: ZMQ

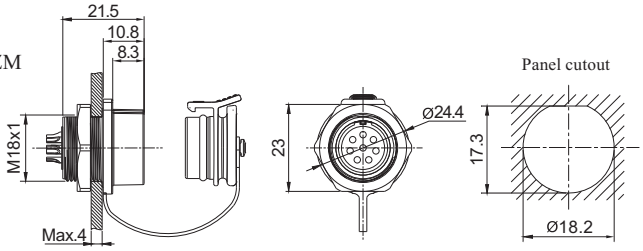
Two types: male and female contacts



WK16__ZM__

Rear-nut mount receptacle:ZM

Two types: male and female contacts

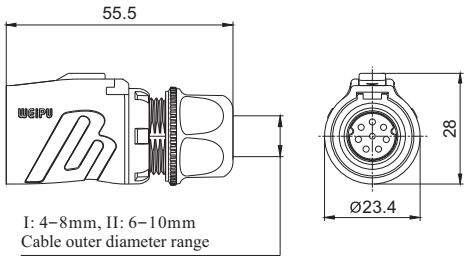


WK16 Shielded Series

WK16__TEP__

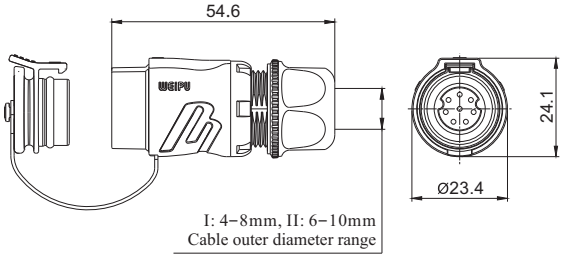
Shielded Plug with metal clamping-nut:TEP
Two types: male and female contacts

Optional plug cover



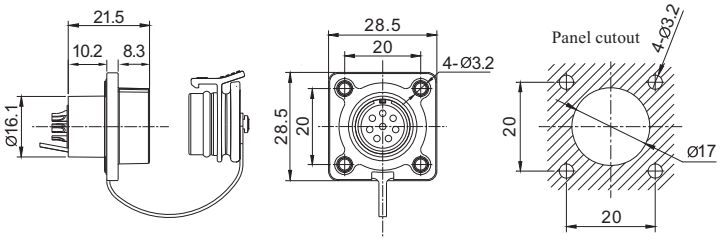
WK16__ZEP__

In-line shielded receptacle with metal clamping-nut:ZEP
Two types: male and female contacts



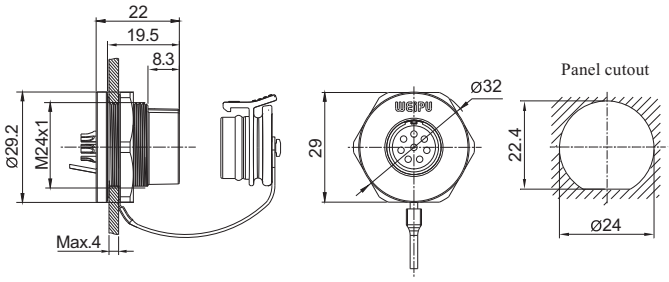
WK16__ZP__

Shielded square flange receptacle:ZP
Two types: male and female contacts



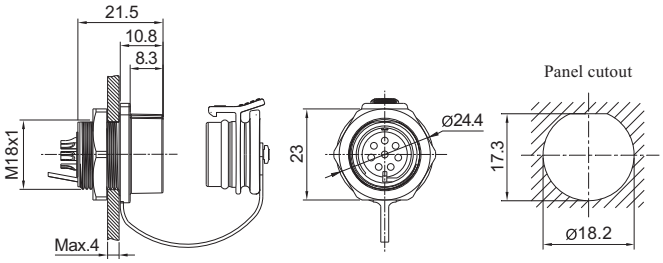
WK16__ZMQP__

Shielded front-nut mount receptacle:ZMQP
Two types: male and female contacts



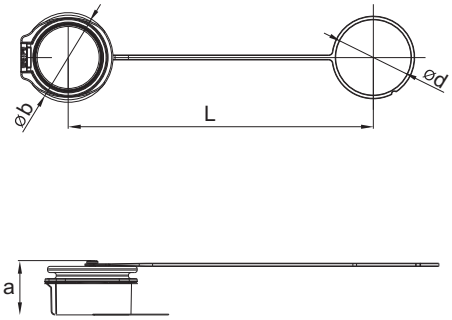
WK16__ZMP__

Shielded rear-nut mount receptacle: ZMP
Two types: male and female contacts



Plug vover for WK16 series

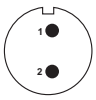
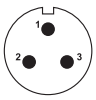
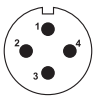
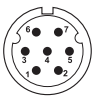
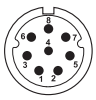
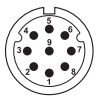
WK16-GT



Optional plug cover

WK16	Dimension(mm)				Order number
	a	b	d	L	
	17.3	Ø23.4	Ø19.4	85	10221001629

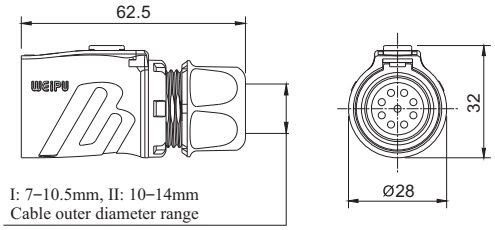
Solder contact spec

WK16		2B	3B	4B	2	3	4	5	7	8	9
Insulator mating surface	Male contact										
	Female contact										
Rated current (A)		15	15	15	10	10	10	5	5	5	5
Contact diameter (mm)		Ø2X2	Ø2X3	Ø2X4	Ø1.5X2	Ø1.5X3	Ø1.5X4	Ø1X5	Ø1X7	Ø1X8	Ø1X9
Rated voltage		500	500	500	400	400	400	250	250	250	250
Test voltage(AC.V) 1 min		1500	1500	1500	2000	2000	2000	1500	1500	1500	1500
Contact resistance (mΩ)		2.5	2.5	2.5	3	3	3	5	5	5	5
Wire size (mm^2/AWG)		≤2/14	≤2/14	≤2/14	≤1.5/16	≤1.5/16	≤1.5/16	≤0.5/20	≤0.5/20	≤0.5/20	≤0.5/20
Model compatibility		Weipu-specific version			Market-compatible version						

WK20__TE__

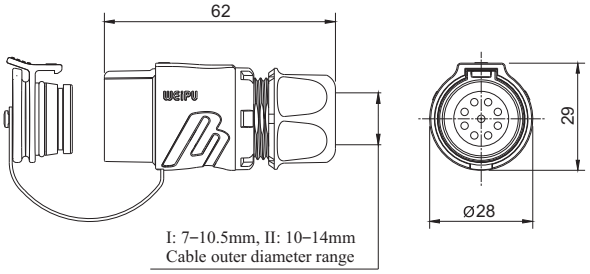
Plug with plastic clamping-nut: TE
Two types: male and female contacts

Optional plug cover



WK20__ZE__

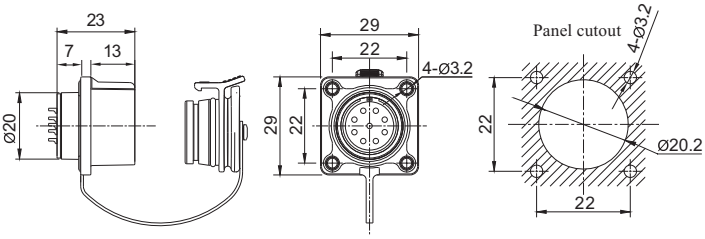
In-line receptacle with metal clamping-nut:ZE
Two types: male and female contacts



WK20__Z__

Square flange receptacle: Z

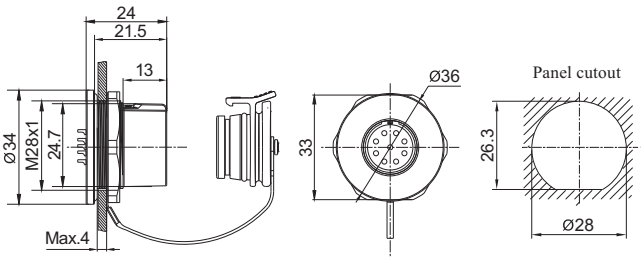
Two types: male and female contacts



WK20__ZMQ__

Front-nut mount receptacle: ZMQ

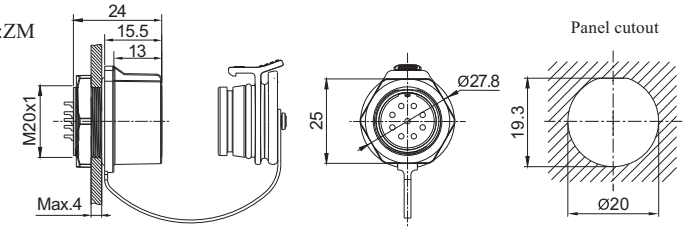
Two types: male and female contacts



WK20__ZM__

Rear-nut mount receptacle:ZM

Two types: male and female contacts



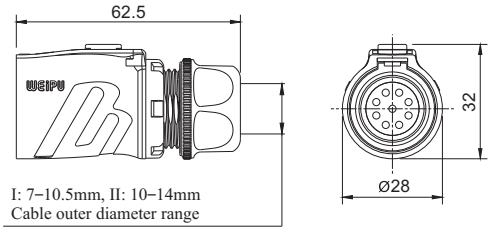
WK20 Shielded Series

WK20__TEP__

Shielded Plug with metal clamping-nut:TEP

Two types: male and female contacts

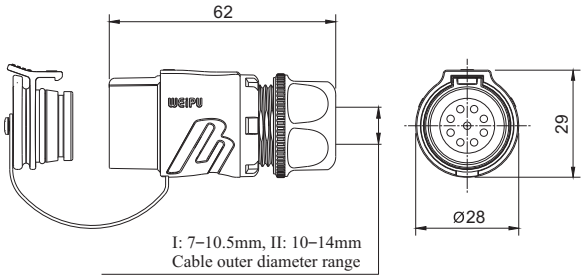
Optional plug cover



WK20__ZEP__

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

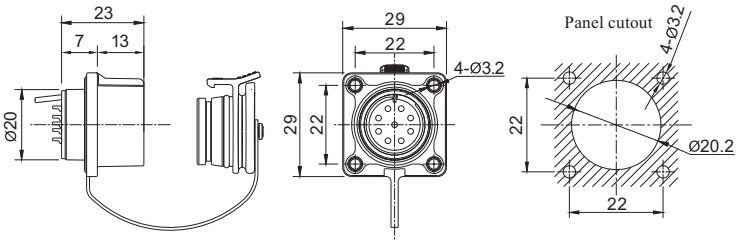
Two types: male and female contacts



WK20__ZP__

Shielded square flange receptacle:ZP

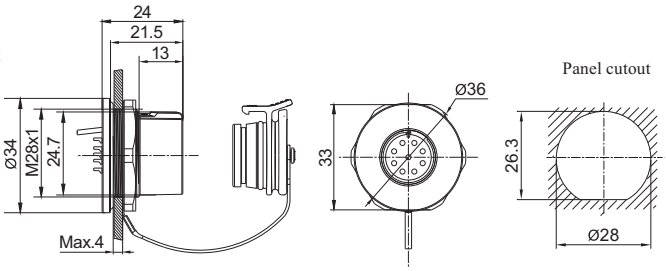
Two types: male and female contacts



WK20__ZMQP__

Shielded front-nut mount receptacle:ZMQP

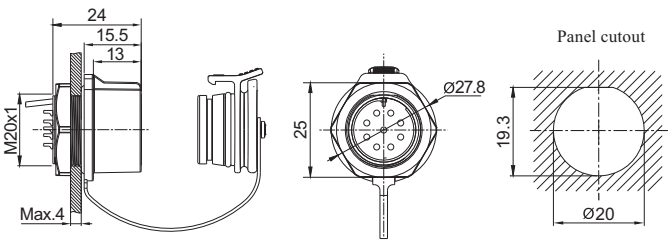
Two types: male and female contacts



WK20__ZMP__

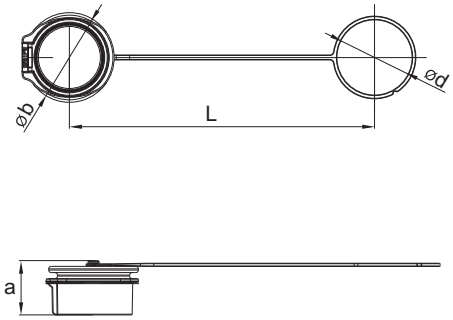
Shielded rear-nut mount receptacle: ZMP

Two types: male and female contacts



Plug vover for WK20 series

WK20-GT



Optional plug cover

WK20	Dimension(mm)				Order number
	a	b	d	L	
	21.8	Ø27.8	Ø21.8	96.7	10221001630

Solder contact spec

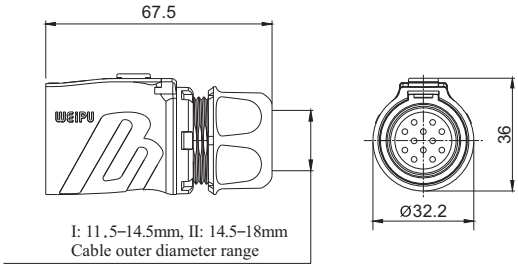
WK20		2	3	4	5	5B	5C	6	6B	7	8	9	12	15
Insulator mating surface	Male contact													
	Female contact													
Rated current (A)		30	30	30	30	30 5	15	25 5	30 5	15	10	5	5	5
Contact diameter (mm)		Ø3X2	Ø3X3	Ø3X4	Ø3X5	Ø3X2 Ø1X3	Ø2X5	Ø2.5X4 Ø1X2	Ø3X2 Ø1X4	Ø2X7	Ø1.5X8	Ø1X9	Ø1X12	Ø1X15
Rated voltage		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 (mm²/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

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

WK24__TE__

Plug with plastic clamping-nut: TE
Two types: male and female contacts

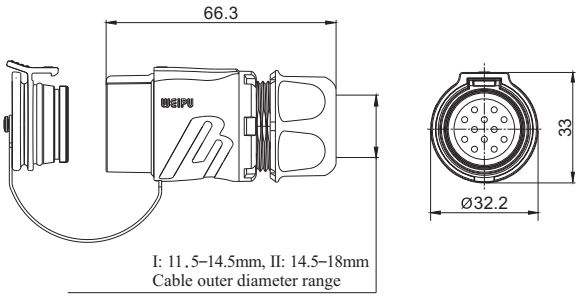
Optional plug cover



WK24__ZE__

In-line receptacle with metal clamping-nut:ZE

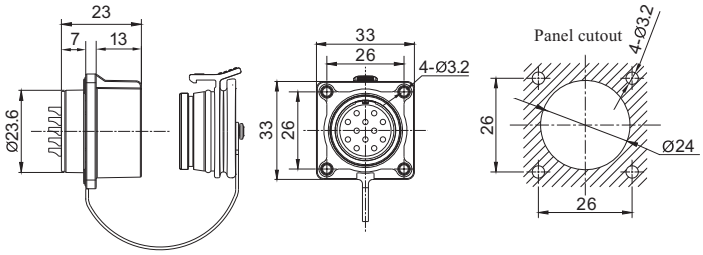
Two types: male and female contacts



WK24__Z__

Square flange receptacle: Z

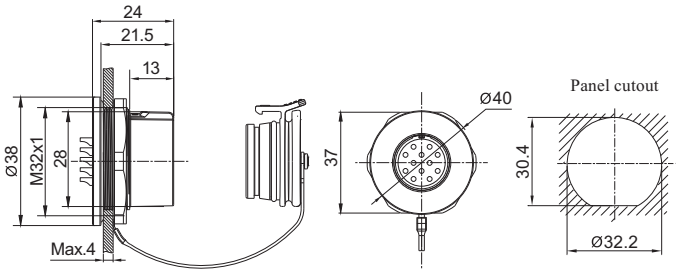
Two types: male and female contacts



WK24__ZMQ__

Front-nut mount receptacle: ZMQ

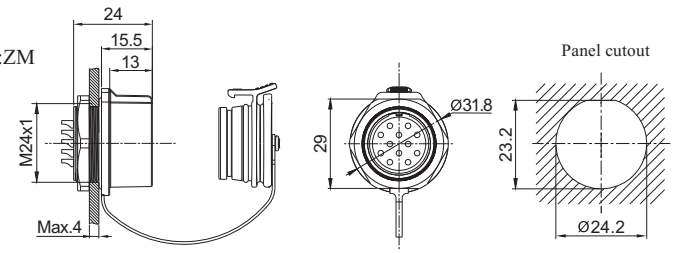
Two types: male and female contacts



WK24__ZM__

Rear-nut mount receptacle:ZM

Two types: male and female contacts

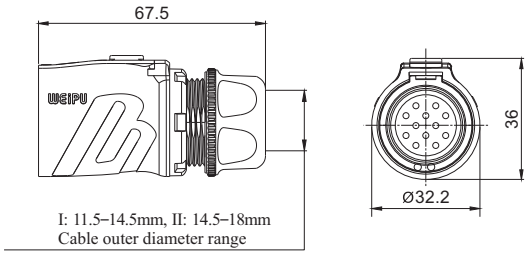


WK24 Shielded Series

WK24__TEP__

Shielded Plug with metal clamping-nut:TEP
Two types: male and female contacts

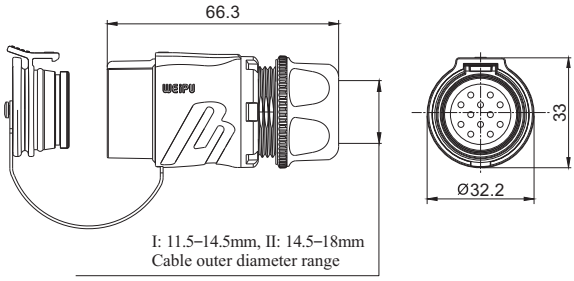
Optional plug cover



WK24__ZEP__

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

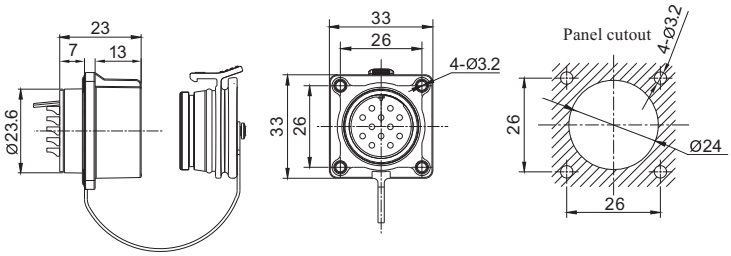
Two types: male and female contacts



WK24__ZP__

Shielded square flange receptacle:ZP

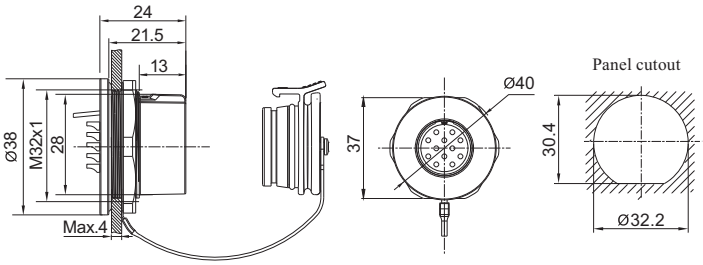
Two types: male and female contacts



WK24__ZMQP__

Shielded front-nut mount receptacle:ZMQP

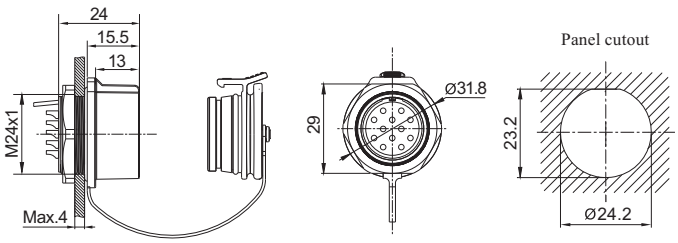
Two types: male and female contacts



WK24__ZMP__

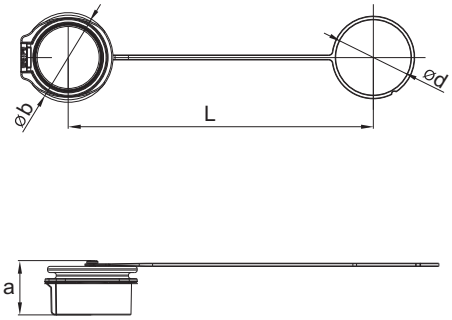
Shielded rear-nut mount receptacle: ZMP

Two types: male and female contacts



Plug vover for WK24 series

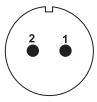
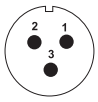
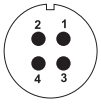
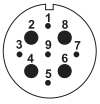
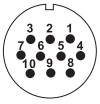
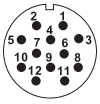
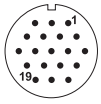
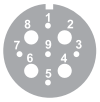
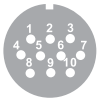
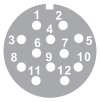
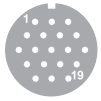
WK24-GT



Optional plug cover

WK24	Dimension(mm)				Order number
	a	b	d	L	
	21.8	Ø31.8	Ø26.2	98.5	10221001653

Solder contact spec

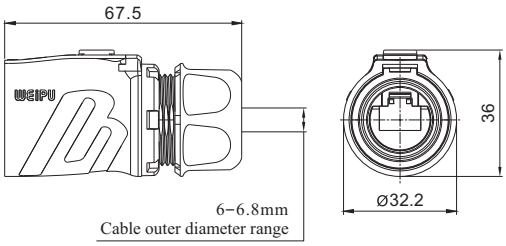
WK24		2	3	4	9	10	12	12B	19
Insulator mating surface	Male contact								
	Female contact								
Rated current (A)		25	25	25	5 25	10	10	5 30	5
Contact diameter (mm)		ø2.5X2	ø2.5X3	ø2.5X4	Ø1X5 Ø2.5X4	ø1.5X10	ø1.5X12	Ø1X9 Ø3X3	ø1X19
Rated voltage		500	500	500	500	500	500	500	400
Test voltage(AC.V) 1 min		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 (mm²/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

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

WK24JRJ45TE

RJ45 plug with plastic clamping-nut

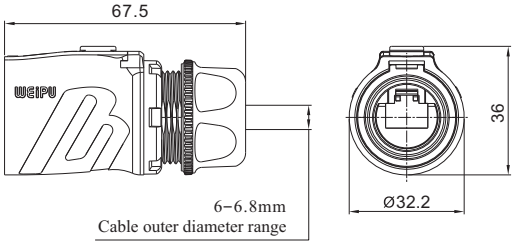
Mate with:
WK24KRJ45-C6ZE、
WK24KRJ45-C6ZEP、
WK24KRJ45-C6Z、
WK24KRJ45-C6ZM、
WK24KRJ45-C6ZMQ



WK24JRJ45TEP

RJ45 shielded Plug with metal clamping-nut

Mate with:
WK24KRJ45-C6ZE、
WK24KRJ45-C6ZEP、
WK24KRJ45-C6Z、
WK24KRJ45-C6ZM、
WK24KRJ45-C6ZMQ

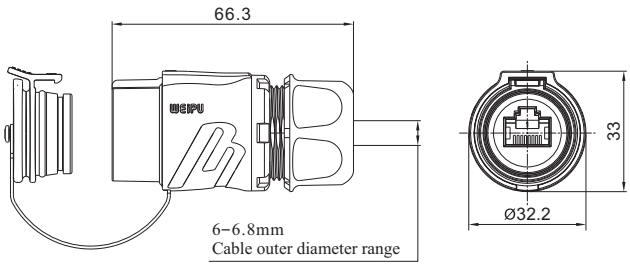


WK24KRJ45__ZE

-C6:六类

RJ45-C6 in-line receptacle with metal clamping-nut

Mate with:
WK24JRJ45TE、
WK24JRJ45ZEP

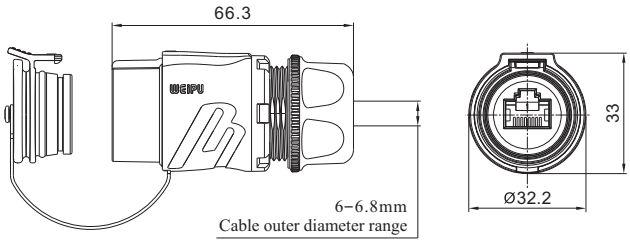


WK24KRJ45__ZEP

-C6

RJ45-C6 in-line shielded receptacle with metal clamping-nut

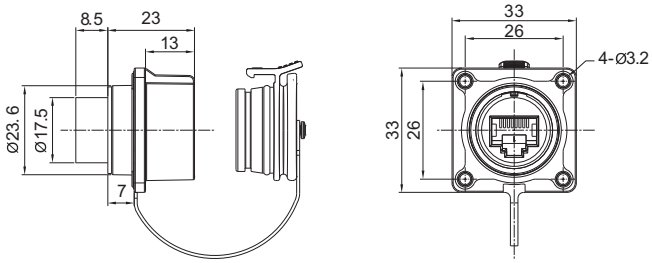
Mate with:
WK24JRJ45TE、
WK24JRJ45ZEP



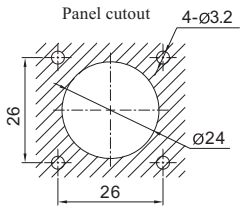
WK24RJ45 Series

RJ45-C6 square flange receptacle

Mate with:
WK24JRJ45TE、
WK24JRJ45TEP

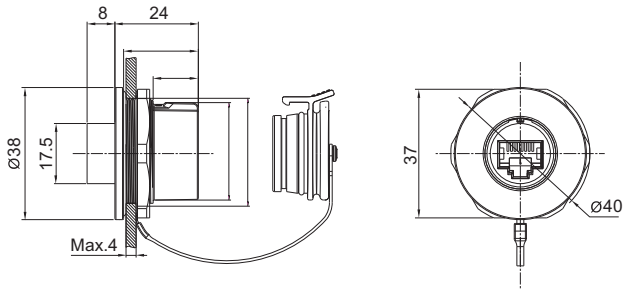


WK24KRJ45_Z
└ -C6

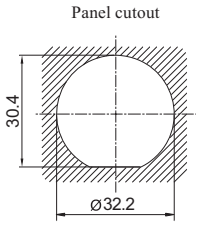


RJ45-C6 front-nut mount receptacle

Mate with:
WK24JRJ45TE、
WK24JRJ45TEP

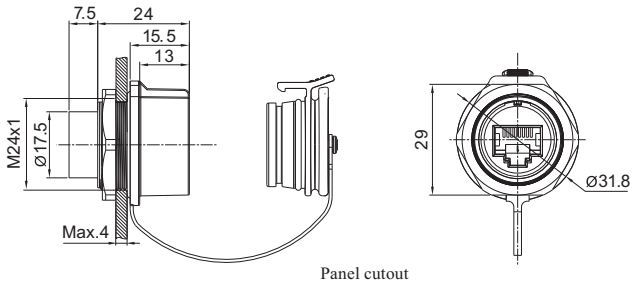


WK24KRJ45_ZMQ
└ -C6

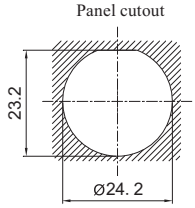


RJ45-C6 rear-nut mount receptacle

Mate with:
WK24JRJ45TE、
WK24JRJ45TEP



WK24KRJ45_ZM
└ -C6



WK24 LC Series

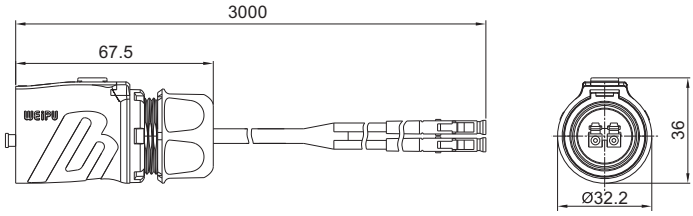
★Cable length can be customized

WK24JLCTE-

Cable length
1. 0m
3. 0m
5. 0m

LC Plug with plastic clamping-nut

Mate with:
WK24KLCZE、
WK24KLCZ、
WK24KLCZM、
WK24KLCZMQ

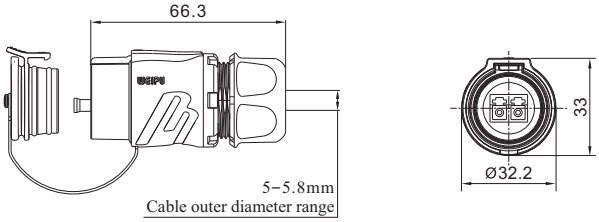


WK24JLCZE-

Cable length
1. 0m
3. 0m
5. 0m

LC in-line receptacle with metal clamping-nut

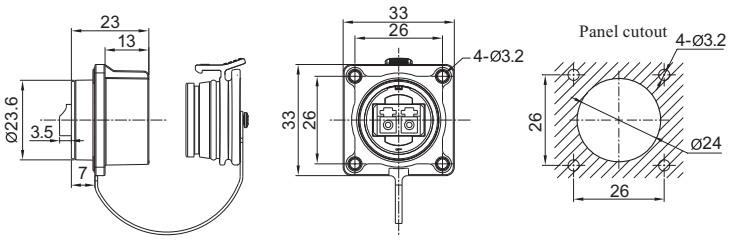
Mate with:
WK24JLCTE



WK24KLCZ

LC square flange receptacle

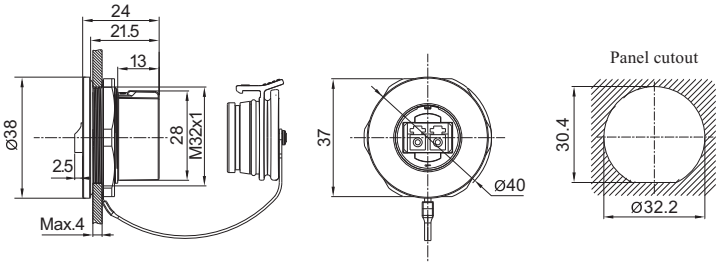
Mate with:
WK24JLCTE



WK24KLCZMQ

LC front-nut mount receptacle

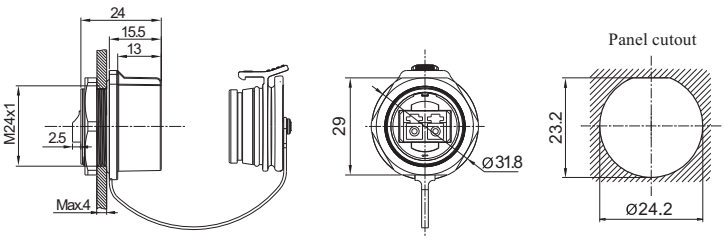
Mate with:
WK24JLCTE



WK24KLCZM

LC rear-nut mount receptacle

Mate with:
WK24JLCTE



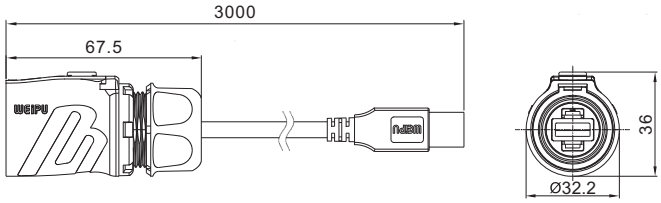
WK24 USB Series

★ Cable length can be customized

WK24
DATA USB

USB3.0 Plug with plastic clamping-nut

Mate with:
WK24KUSB3.0ZE、
WK24KUSB3.0Z、
WK24KUSB3.0ZM、
WK24KUSB3.0ZMQ

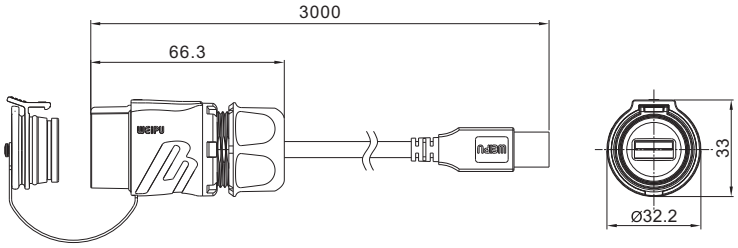


WK24JUSB3.0TE-

Cable length
1. 0m
3. 0m
5. 0m

USB3.0 in-line receptacle with metal clamping-nut

Mate with:
WK24JUSB3.0TE

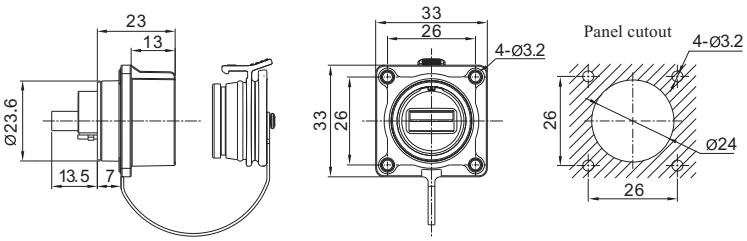


WK24JUSB3.0ZE-

Cable length
1. 0m
3. 0m
5. 0m

USB3.0 square flange receptacle

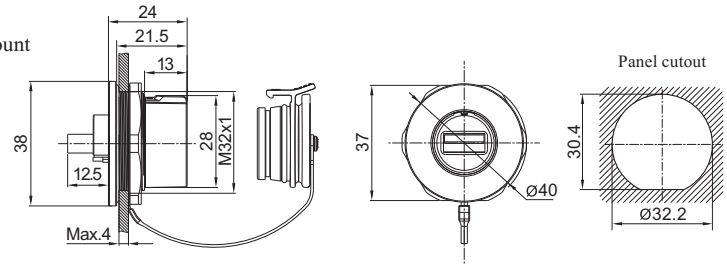
Mate with:
WK24JUSB3.0TE



WK24KUSB3.0Z

USB3.0 front-nut mount receptacle

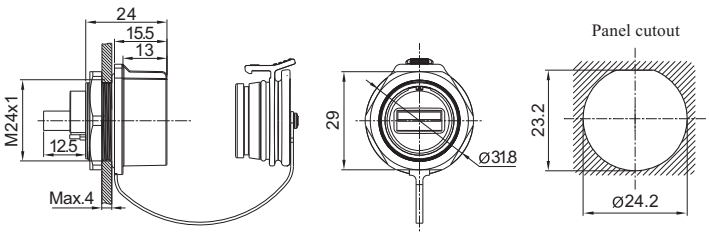
Mate with:
WK24JUSB3.0TE



WK24KUSB3.0ZMQ

USB3.0 rear-nut mount receptacle

Mate with:
WK24JUSB3.0TE



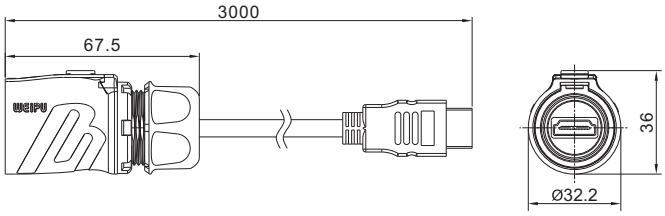
WK24KUSB3.0ZM

WK24 HDMI Series

★ Cable length can be customized

HDMI2.0 Plug with plastic clamping-nut

Mate with:
WK24KHDMI2.0ZE、
WK24KHDMI2.0Z、
WK24KHDMI2.0ZM、
WK24KHDMI2.0ZMQ

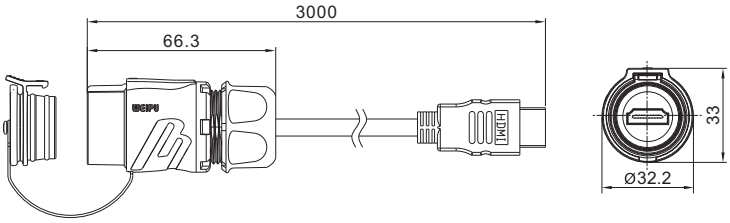


WK24JHDMI2.0TE-

Cable length
1. 0m
3. 0m
5. 0m

HDMI2.0 in-line receptacle with metal clamping-nut

Mate with:
WK24JHDMI2.0TE

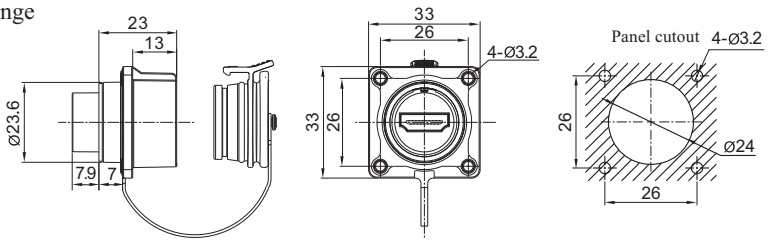


WK24JHDMII2.0ZE-

Cable length
1. 0m
3. 0m
5. 0m

HDMI2.0 square flange receptacle

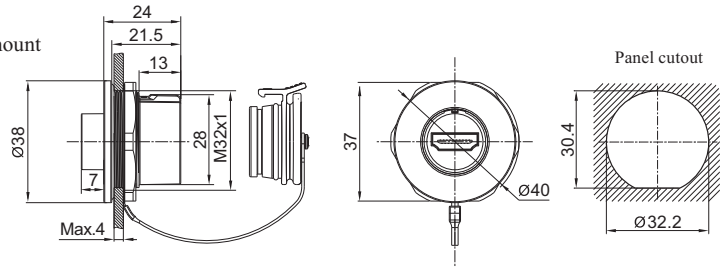
Mate with:
WK24JHDMI2.0TE



WK24KHDMII2.0Z

HDMI2.0 front-nut mount receptacle

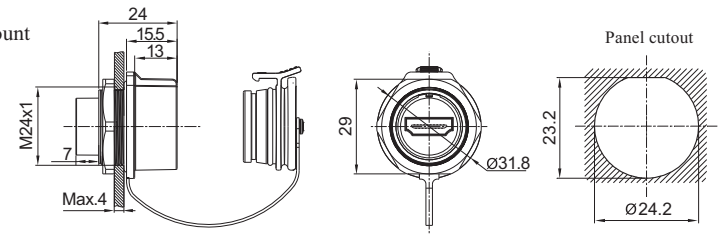
Mate with:
WK24JHDMI2.0TE



WK24KHDMI2.0ZMQ

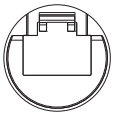
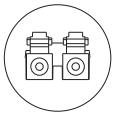
HDMI2.0 rear-nut mount receptacle

Mate with:
WK24JHDMI2.0TE



WK24KHDMI2.0ZM

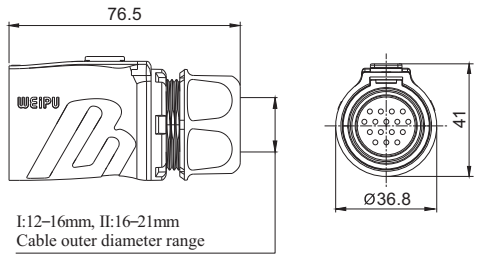
Solder contact spec

WK24	RJ45	USB	LC	HDMI
Insulator mating surface				
Test voltage(AC.V) 1 min	300	300	–	300
Contact resistance(MΩ)	–	10	–	10
Insulation resistance (MΩ)	–	30	–	30
Data transfer rate(MB/s)	1000	500	–	–
Resolution	–	–	–	4K
Cable outer diameter range(mm)	Ø6-6.8	Ø5-5.8	Ø5-5.8	Ø6-6.8
IP rating	IP68(mated)	IP68(mated)	IP68(mated)	IP68(mated)

WK28__TE__

Plug with plastic clamping-nut: TE
Two types: male and female contacts

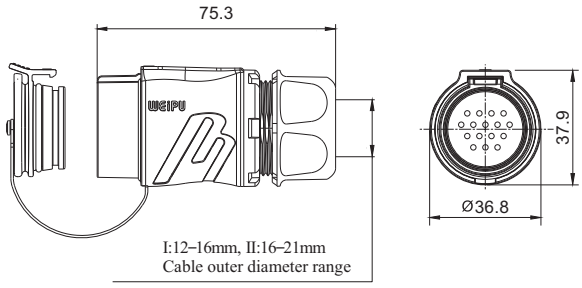
Optional plug cover



WK28__ZE__

In-line receptacle with metal clamping-nut:ZE

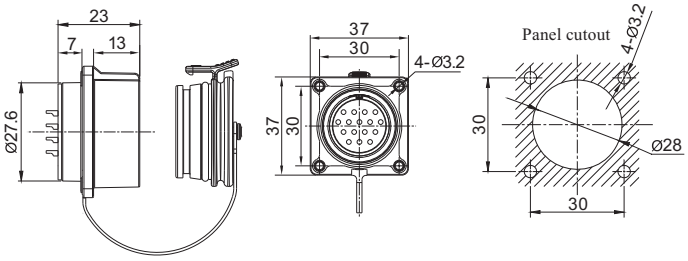
Two types: male and female contacts



WK28__Z__

Square flange receptacle: Z

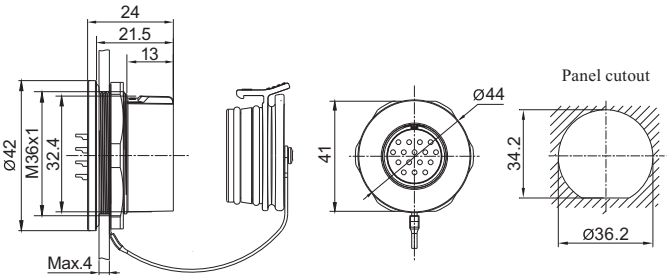
Two types: male and female contacts



WK28__ZMQ__

Front-nut mount receptacle: ZMQ

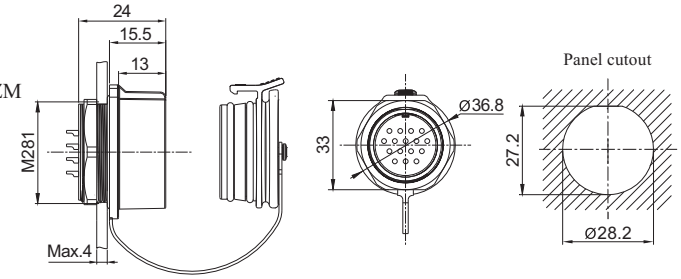
Two types: male and female contacts



WK28__ZM__

Rear-nut mount receptacle:ZM

Two types: male and female contacts



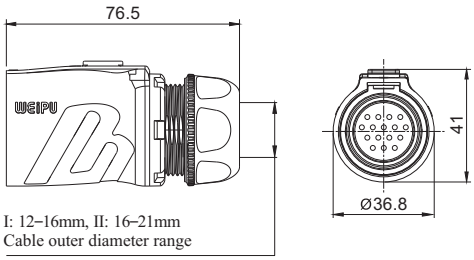
WK28 Shielded Series

WK28__TEP__

Shielded Plug with metal clamping-nut:TEP

Two types: male and female contacts

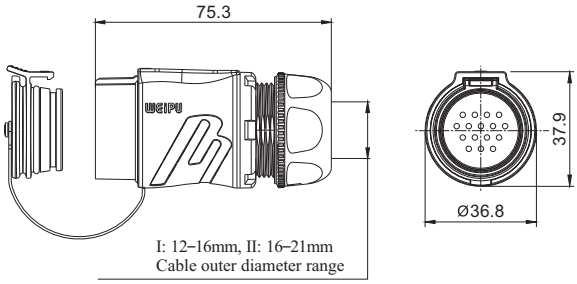
Optional plug cover



WK28__ZEP__

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

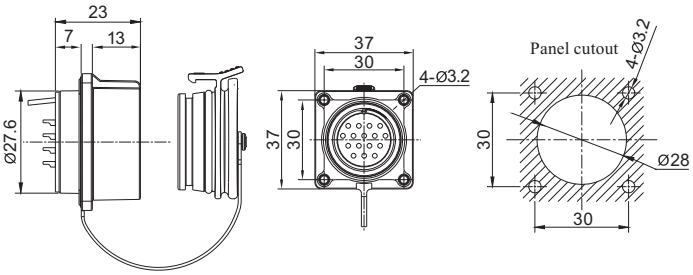
Two types: male and female contacts



WK28__ZP__

Shielded square flange receptacle :ZP

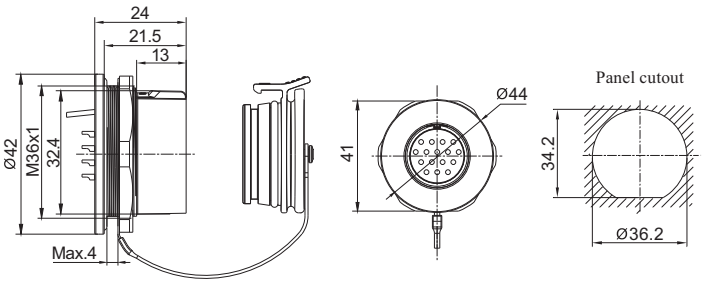
Two types: male and female contacts



WK28__ZMQP__

Shielded front-nut mount receptacle:ZMQP

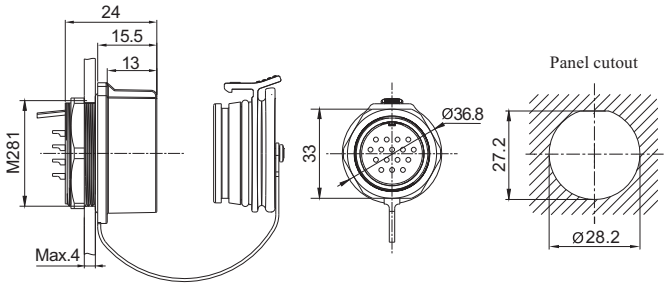
Two types: male and female contacts



WK28__ZMP__

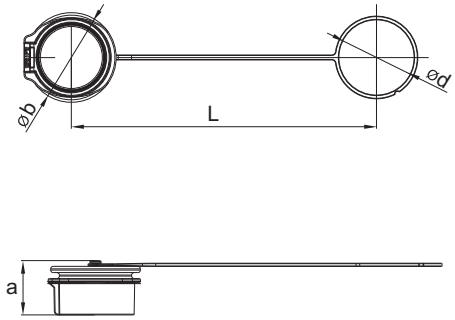
Shielded rear-nut mount receptacle: ZMP

Two types: male and female contacts



Plug vover for WK28 series

WK28-GT



Optional plug cover

WK28	Dimension(mm)				Order number
	a	b	d	L	
	21.8	Ø36	Ø30.2	112.5	10221001654

Solder contact spec

WK28	2	3	4	7	8	8B	9	10	10B	12	16	17	20	24	26	35
Insulator mating surface: Male contact																
Insulator mating surface: Female contact																
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	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 (mm²/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

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

M23X/Q 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.

M23X Series - Feature Overview

Hreaded structure

Hreaded structure: Internal thread, locked by rotation

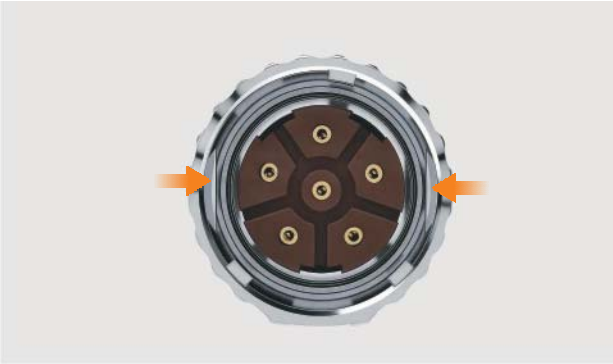
Threaded coupling, superior sealing

Locking: Align the "WEIPU" marks on plug and receptacle, insert, then rotate to couple.

Opening: Rotate to uncouple.

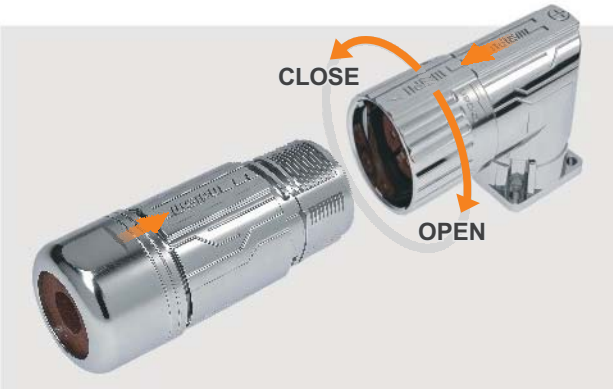
Advantage: Superior sealing and coupling performance, resists loosening over long-term use, withstands harsh environments.

M23Q Series - Feature Overview



Bayonet structure

Bayonet structure: Internal bayonet coupling, quick locking



Bayonet coupling, easy installation

Locking: Align the “WEIPU” marks on plug and receptacle, insert fully, then rotate to “CLOSE”.

Opening: Rotate to “OPEN” and pull out directly.

Advantage: Industrial-grade anti-vibration, quick connect/disconnect, high assembly efficiency, combining reliability with convenience.

M23X

IP67

IP RATING

M23X Threaded coupling

M23Q

IP67

IP RATING

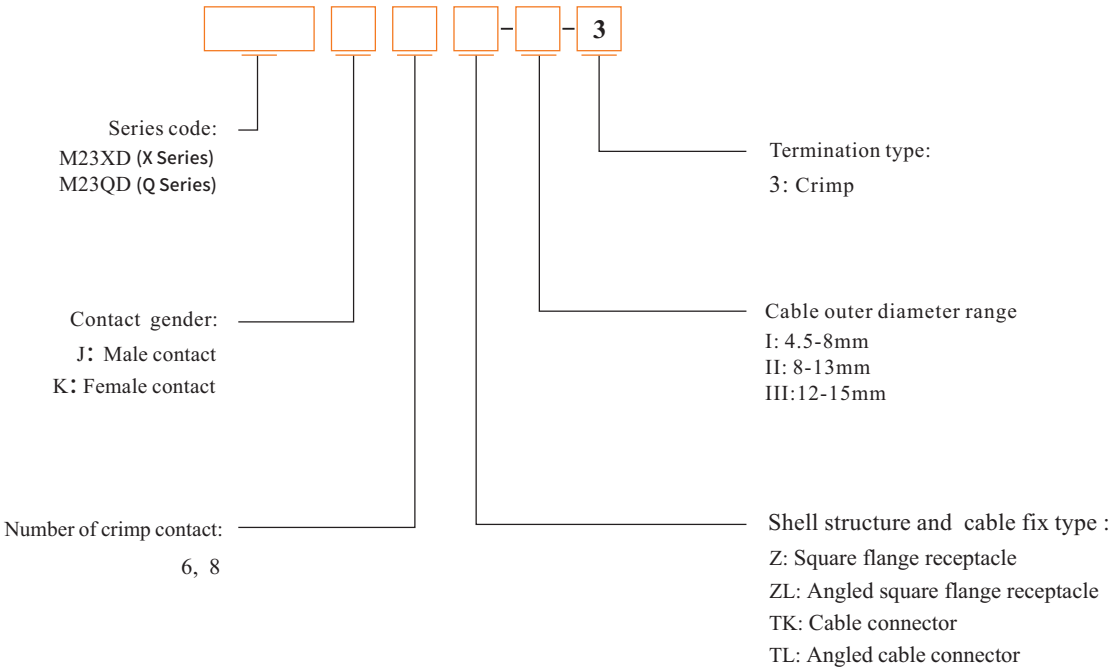
M23X Bayonet coupling

M23X/Q Series

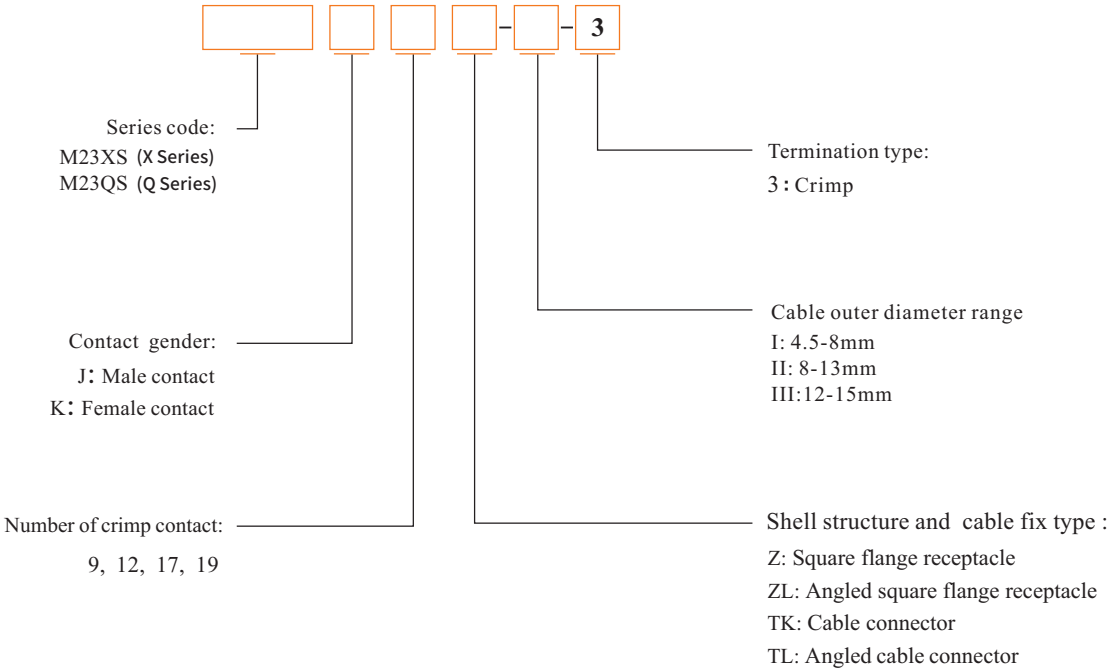
Material and spec

Parameter	M23X		M23Q	
Shell material	Zinc alloy with nickel plating			
Contact material	Brass with gold plating			
Insert material	power	signal	power	signal
	PA66	PBT	PA66	PBT
Insulation resistance	power	signal	power	signal
	$>10^{13}$ mΩ	9、12 pins: $>10^{10}$ mΩ 17、19 pins: $>10^{6}$ mΩ	$>10^{13}$ mΩ	9、12 pins: $>10^{10}$ mΩ 17、19 pins: $>10^{6}$ mΩ
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		Bayonet coupling	

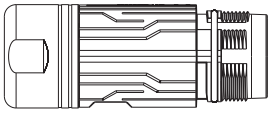
M23X/Q POWER SERIES Part number system



M23X/Q SIGNAL SERIES Part number system



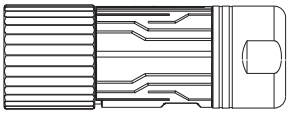
M23X Series Mating diagram



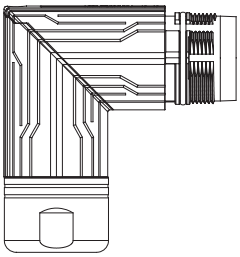
TK

◆ Male contact cable connector

TK



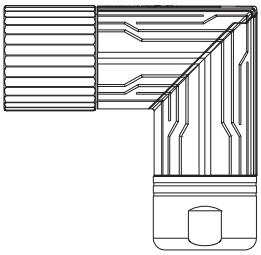
◆ Female contact cable connector



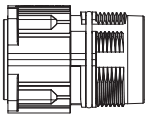
TL

◆ Male contact angled cable connector

TL



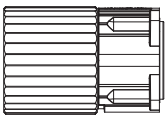
◆ Female contact angled cable connector



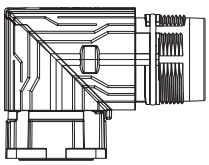
Z

◆ Male contact square flange receptacle

Z



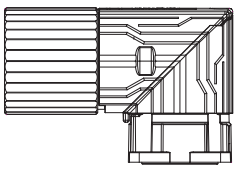
◆ Female contact square flange receptacle



ZL

◆ Male contact angled square flange receptacle

ZL

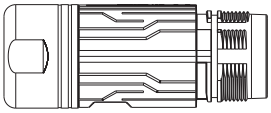


◆ Female contact angled square flange receptacle

★ IP rating marked is for after mated

★ Crimp contact spec see P22

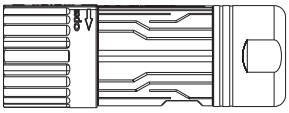
M23Q Series Mating diagram



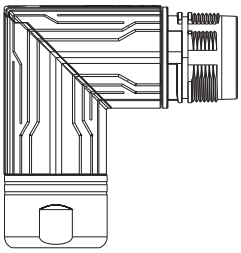
TK

◆ Male contact cable connector

TK



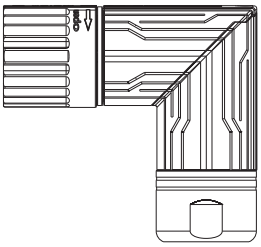
◆ Female contact cable connector



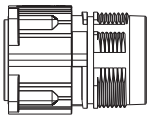
TL

◆ Male contact angled cable connector

TL



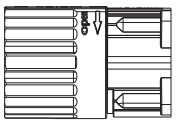
◆ Female contact angled cable connector



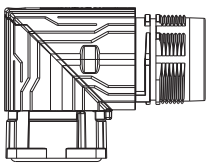
Z

◆ Male contact square flange receptacle

Z



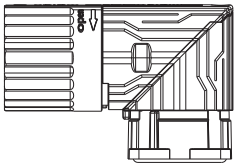
◆ Female contact square flange receptacle



ZL

◆ Male contact angled square flange receptacle

ZL



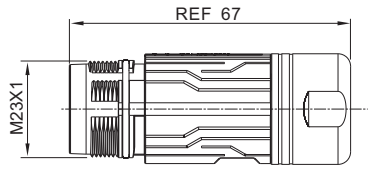
◆ Female contact angled square flange receptacle

★ IP rating marked is for after mated

★ Crimp contact spec see P22

Male contact

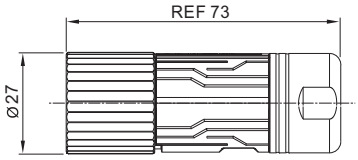
Threaded coupling



M23XDJ _TK_-3

Female contact cable connector

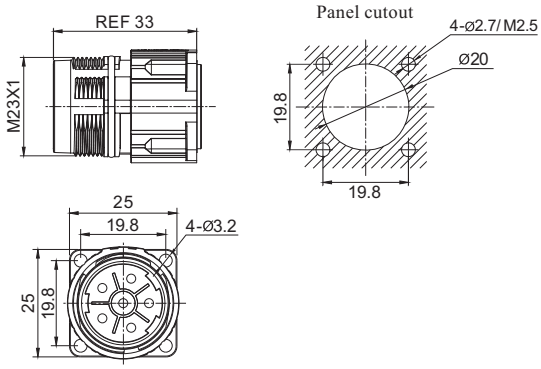
Threaded coupling



M23XDK _TK _-3

Male contact
square flange receptacle

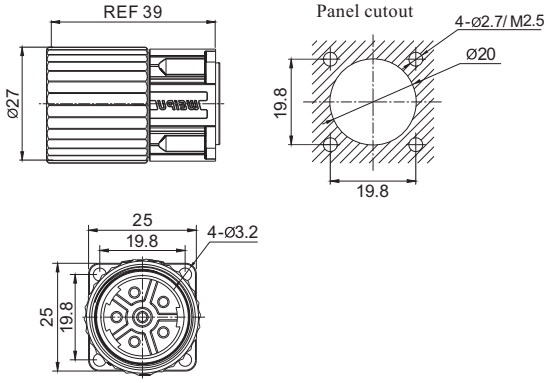
Threaded coupling



M23XDJ _Z-3

Female contact
square flange receptacle

Threaded coupling

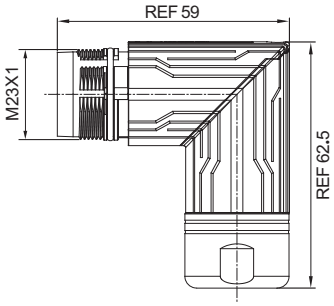


M23XDK _Z-3

M23XDJ _TL_-3

Male contact
angled cable connector

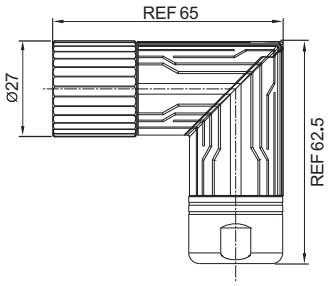
Threaded coupling



M23XDK _TL _-3

Female contact
angled cable connector

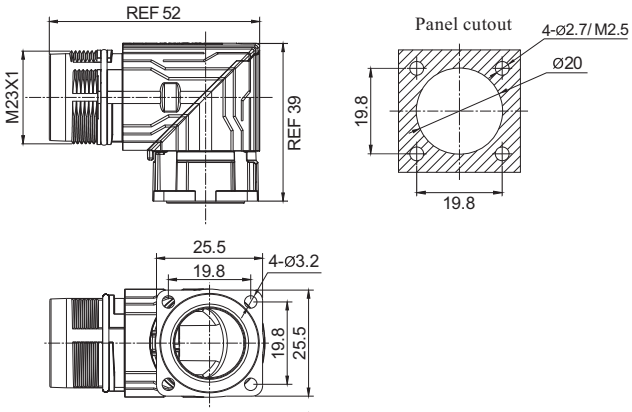
Threaded coupling



M23XDJ _ZL-3

Male contact angled
square flange receptacle

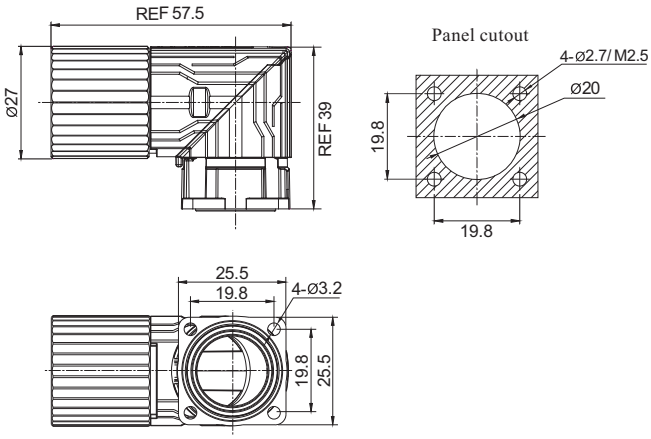
Threaded coupling



M23XDK _ZL-3

Female contact angled
square flange receptacle

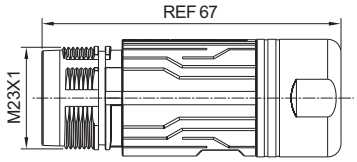
Threaded coupling



M23QDJ _TK_⁻3

Male contact

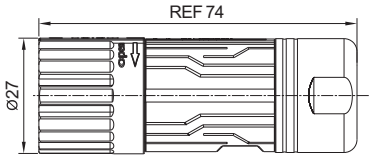
Baynoet coupling



M23QDK _TK _-3

Female contact cable connector

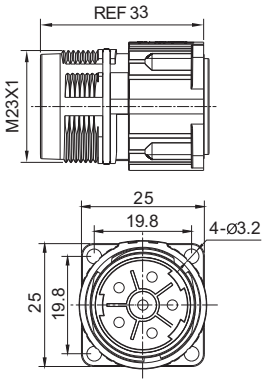
Baynoet coupling

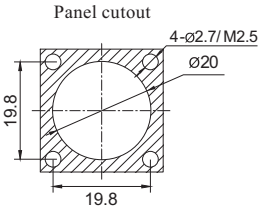


M23QDJ _Z-3

Male contact
square flange receptacle

Baynoet coupling

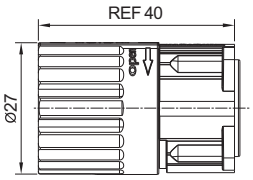


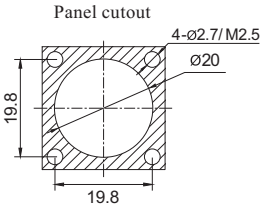


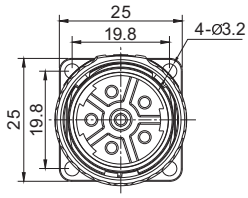
M23QDK _Z-3

Female contact
square flange receptacle

Baynoet coupling



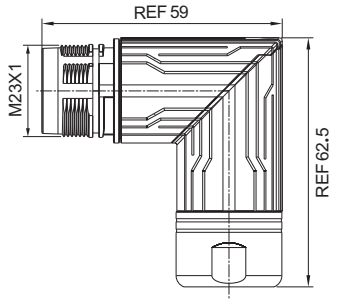




M23QDJ _TL_-3

Male contact
angled cable connector

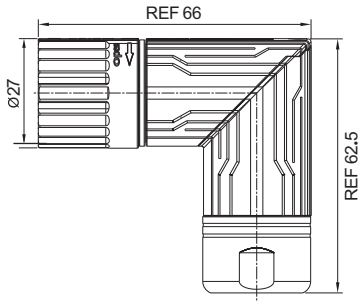
Baynoet coupling



M23QDK _TL _-3

Female contact
angled cable connector

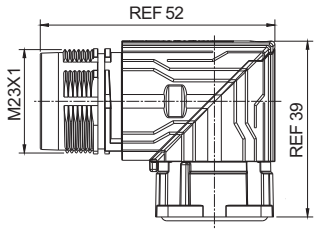
Baynoet coupling

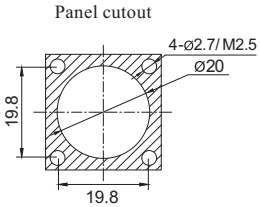


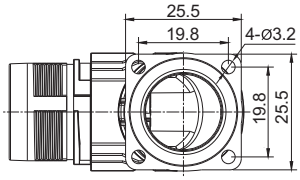
M23QDJ _ZL-3

Male contact angled
square flange receptacle

Baynoet coupling



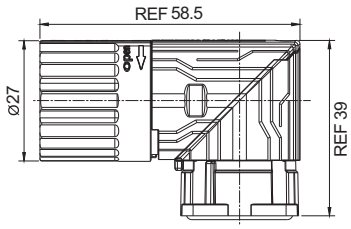


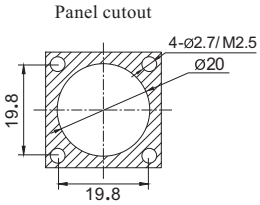


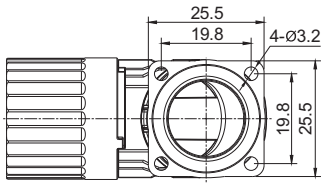
M23QDK _ZL-3

Female contact angled
square flange receptacle

Baynoet coupling







M23X/Q 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

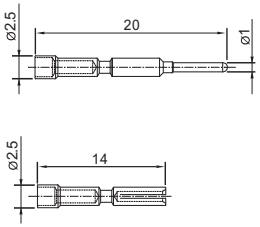
M23X/Q for power contact spec

8A Crimp contact

※ Contact resistance: 5mΩ

※ 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
0.14-0.37mm²	AWG 26-22	4.5mm	YJ1-20-0.5AU	CTW-0.14/4
0.5-1.0mm²	AWG 20-18	4.5mm	YJ1-20-1.0AU	CTW-0.14/4

8A Female crimp contact

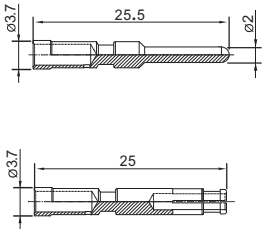
Wire size		Stripping length	Female crimp contact p/n	Crimping tool p/n
0.14-0.37mm²	AWG 26-22	4.5mm	YK1-14-0.5AU	CTW-0.14/4
0.5-1.0mm²	AWG 20-18	4.5mm	YK1-14-1.0AU	CTW-0.14/4

28A Crimp

※ Contact resistance: 2.5mΩ

※ 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
0.14-0.37mm²	AWG 26-22	7.5mm	YJ2-25.5-0.5AU	CTW-0.14/4
1-2.5mm²	AWG 18-13	7.5mm	YJ2-25.5-2.5AU	CTW-0.14/4
2.5-4mm²	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
0.14-0.37mm²	AWG 26-22	7.5mm	YK2-25-0.5AU	CTW-0.14/4
1-2.5mm²	AWG 18-13	7.5mm	YK2-25-2.5AU	CTW-0.14/4
2.5-4mm²	AWG 13-12	7.5mm	YK2-25-4.0AU	CTW-0.14/4

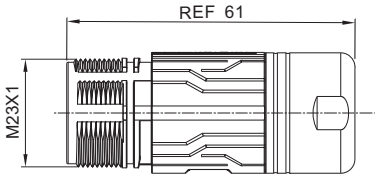
Crimp tool

For crimping the male / female contacts

Part number	Crimping wire range	
CTW-0.14/4	0.14-4mm²	AWG 25-11

Male contact cable connector

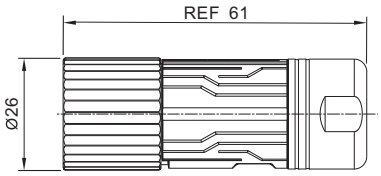
Threaded coupling



M23XSJ _TK_-3

Female contact cable connector

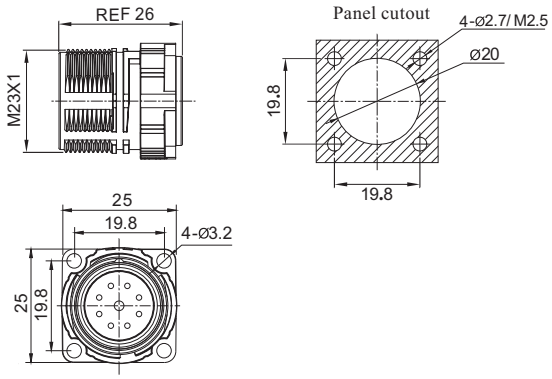
Threaded coupling



M23XSK _TK_-3

Male contact
square flange receptacle

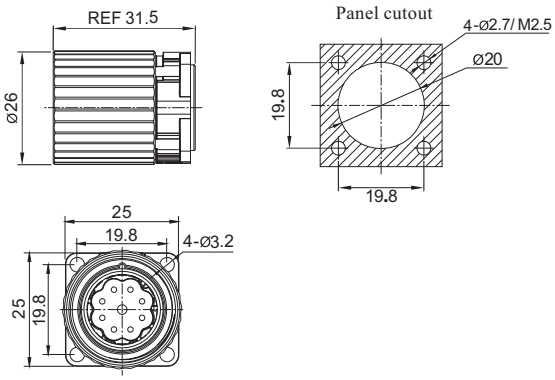
Threaded coupling



M23XSJ _Z-3

Female contact
square flange receptacle

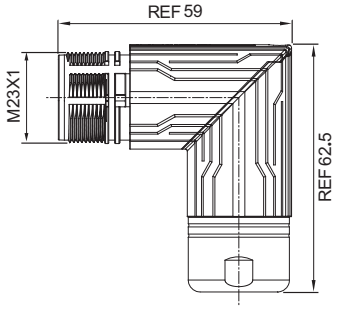
Threaded coupling



M23XSK_Z-3

Male contact angled cable connector

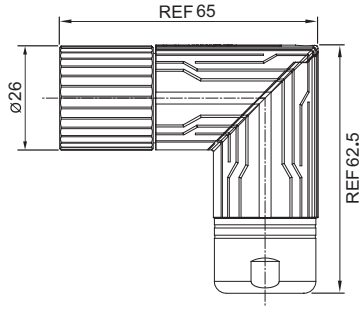
Threaded coupling



M23XSJ _TL_-3

Female contact angled cable connector

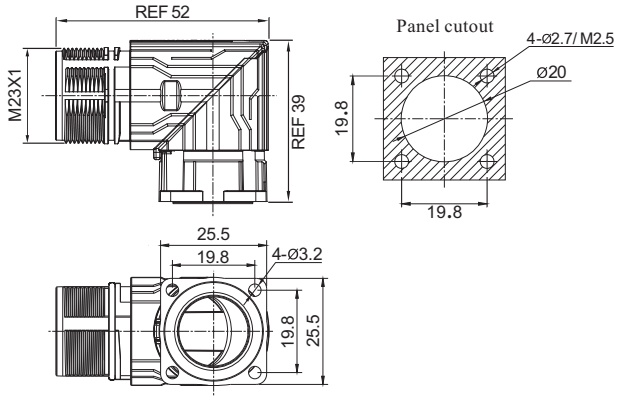
Threaded coupling



M23XSK _TL_-3

Male contact angled
square flange receptacle

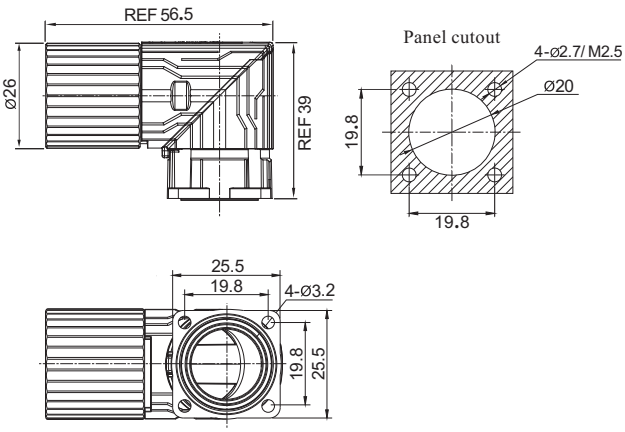
Threaded coupling



M23XSJ _ZL-3

Female contact angled
square flange receptacle

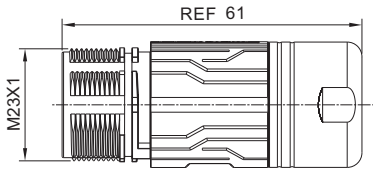
Threaded coupling



M23XSK _ZL-3

Male contact cable connector

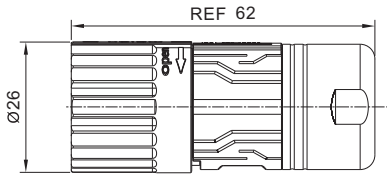
Baynoet coupling



M23QSJ _TK_-3

Female contact cable connector

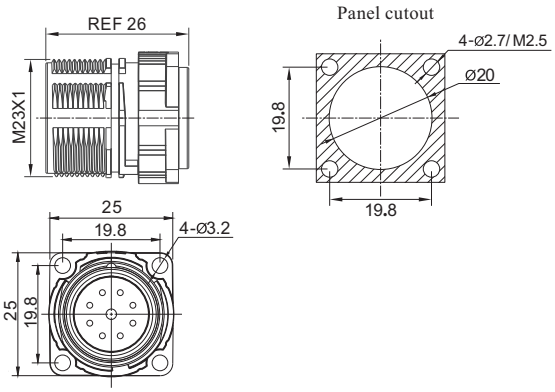
Baynoet coupling



M23QSK _TK_-3

Male contact
square flange receptacle

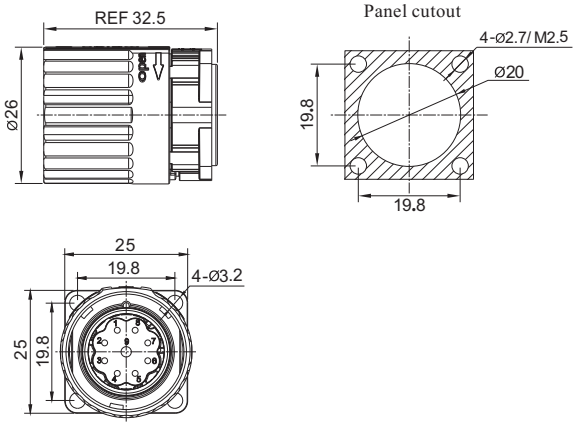
Baynoet coupling



M23QSJ _Z-3

Female contact
square flange receptacle

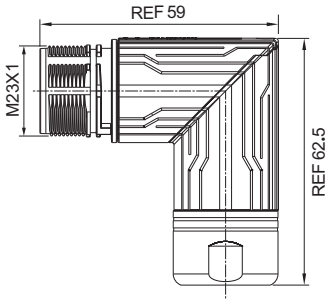
Baynoet coupling



M23QSK_Z-3

Male contact angled cable connector

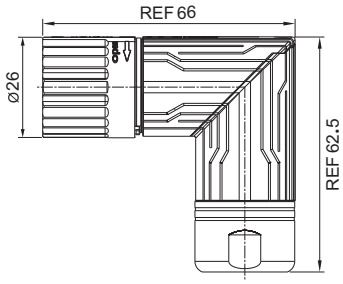
Baynoet coupling



M23QSJ _TL_-3

Female contact angled cable connector

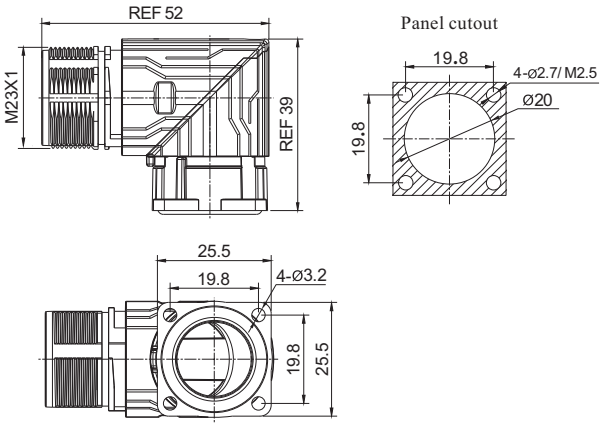
Baynoet coupling



M23QSK _TL_-3

Male contact angled
square flange receptacle

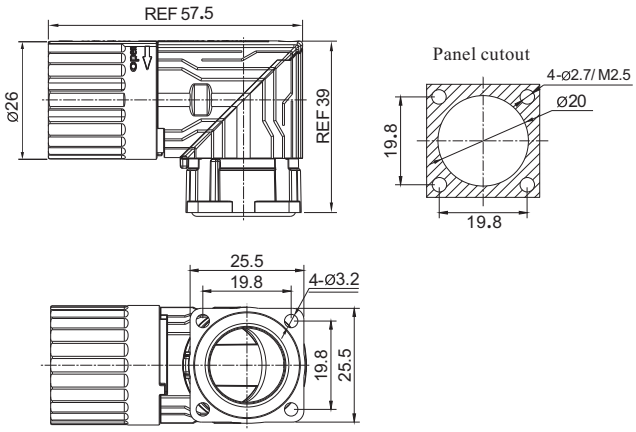
Baynoet coupling



M23QSJ _ZL-3

Female contact angled
square flange receptacle

Baynoet coupling



M23QSK _ZL-3

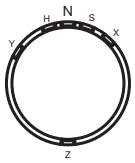
M23X/Q for signal contact arrangement and spec

Male contact face view	Number of contact	Contact diameter (mm)	Rated voltage (AC.V)	Rated current (A)	Test voltage (AC.V)1min
	9(8+1)	Ø1 8 Ø2 1	300	8 20	2500
	12	Ø1 12	300	8	2500
	17	Ø1 17	150	8	1500
	19(16+3)	Ø1 16 Ø1.5 3	150	8 10	1500

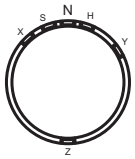
Number of Contact	Optional Angle
9	N, S, H, X, Y
12	N, S, H, X, Y, Z
17	N, S, H, X, Y, Z
19	N, S, H, X, Y

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

Coded Chuck



Male contact face view



Female contact face view

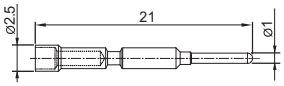
M23X/Q for signal contact spec

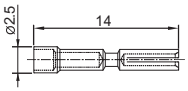
8A Crimp contact

※ Contact resistance: 5mΩ

※ 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
0.14-0.37mm² AWG 26-22	4.5mm	YJ1-21-0.5AU	CTW-0.14/4
0.5-1mm² AWG 20-18	4.5mm	YJ1-21-1.0AU	CTW-0.14/4
1-1.5mm² AWG 17-16	4.5mm	YJ1-21-1.5AU	CTW-0.14/4

8A Female crimp contact

Wire size	Stripping length	Female crimp contact p/n	Crimping tool p/n
0.14-0.37mm² AWG 26-22	4.5mm	YK1-14-0.5AU	CTW-0.14/4
0.5-1mm² AWG 20-18	4.5mm	YK1-14-1.0AU	CTW-0.14/4
1-1.5mm² AWG 17-16	4.5mm	YK1-14-1.5AU	CTW-0.14/4

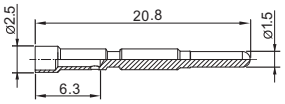
10A Crimp contact

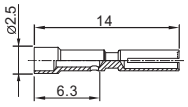
※ Contact resistance: 2.5mΩ

※ Contact diameter: ø1.5

※ Material: Brass with gold plating

20A





10A Male crimp contact

Wire size	Stripping length	Male crimp contact p/n	Crimping tool p/n
0.14-0.5mm² AWG 26-20	4.5mm	YJ1.5-20.8-0.5AU	CTW-0.14/4
0.5-1mm² AWG 20-17	4.5mm	YJ1.5-20.8-1.0AU	CTW-0.14/4
1-1.5mm² AWG 17-16	4.5mm	YJ1.5-20.8-1.5AU	CTW-0.14/4

10A Female crimp contact

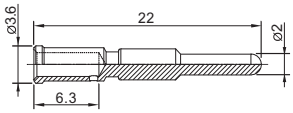
Wire size	Stripping length	Female crimp contact p/n	Crimping tool p/n
0.14-0.5mm² AWG 26-20	4.5mm	YK1.5-14-0.5AU	CTW-0.14/4
0.5-1mm² AWG 20-17	4.5mm	YK1.5-14-1.0AU	CTW-0.14/4
1-1.5mm² AWG 17-16	4.5mm	YK1.5-14-1.5AU	CTW-0.14/4

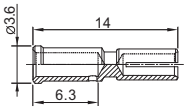
20A Crimp contact

※ Contact resistance: 2.5mΩ

※ Contact diameter: ø2

※ Material: Brass with gold plating





20A Male crimp contact

Wire size	Stripping length	Male crimp contact p/n	Crimping tool p/n
0.75-2.5mm² AWG 18-13	6.5mm	YJ2-22-2.5AU	CTW-0.14/4

20A Female crimp contact

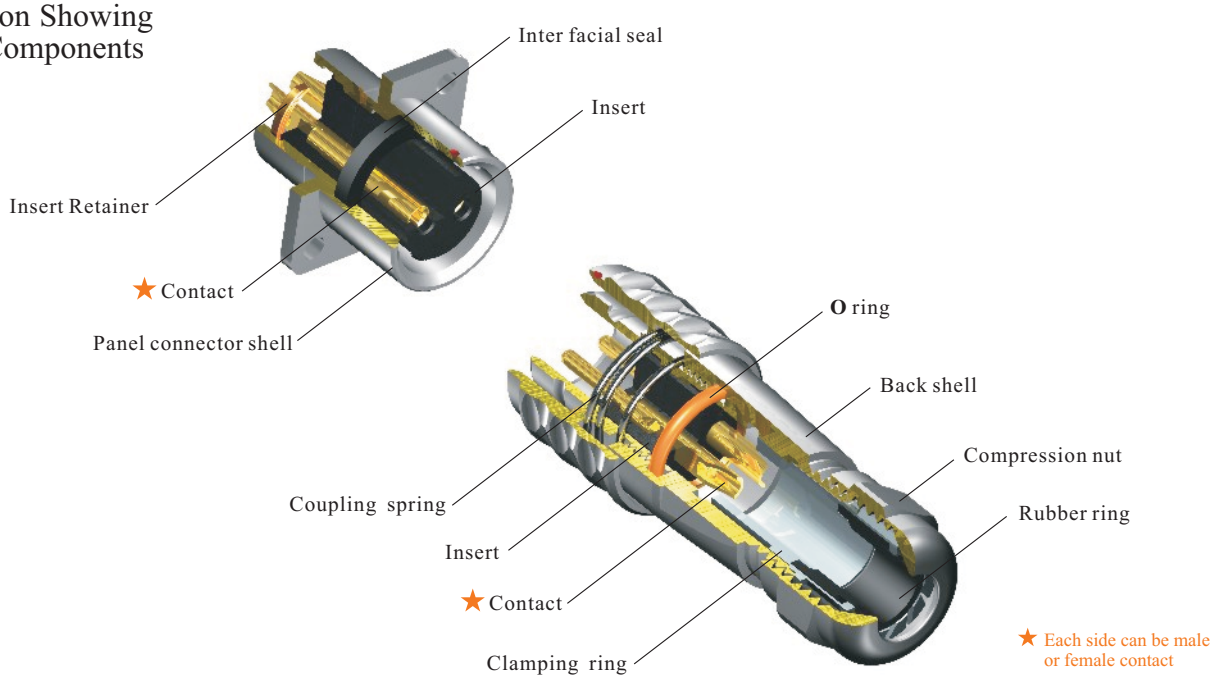
Wire size	Stripping length	Female crimp contact p/n	Crimping tool p/n
0.75-2.5mm² AWG 18-13	6.5mm	YK2-14-2.5AU	CTW-0.14/4

Crimp tool

For crimping the male / female contacts

Part number	Crimping wire range
CTW-0.14/4	0.14-4mm² AWG 25-11

Part Section Showing Internal Components

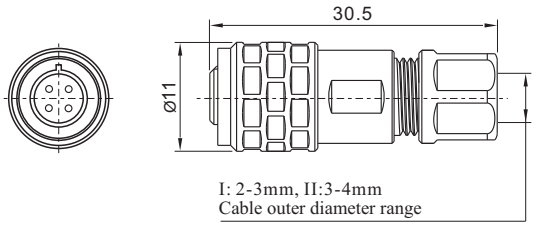


Material and spec

Coupling	Push-pull
Shell material	Brass with chrome plating
Insert material	PPS , max temperature 260℃ Date: PBT, PVC
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 USB:1000
Temperature range	-40℃～+85℃ Signal、Date：-20℃～+70℃
Insulation resistance	2000MΩ
Transmission Speed	Cat 5: 100Mbps Cat 6: 100-1000Mbps

SF6 Series

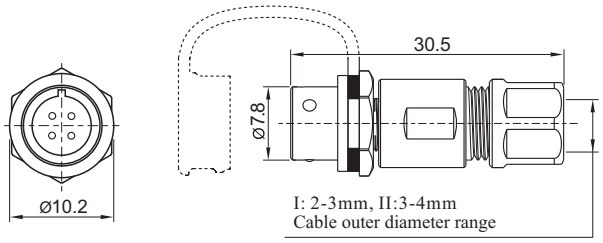
Cable connector
Mate with SF611B, SF612B, SF615B



SF610B/P__ SF610B/S__

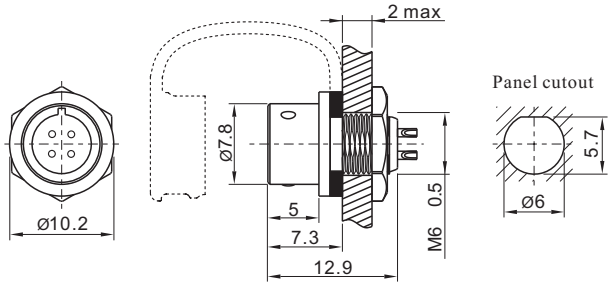
- Male contact
- Female contact
- Number of contact
- Cable outer diameter range I: 2-3mm, II:3-4mm

In-line cable connector
Mate with SF610B



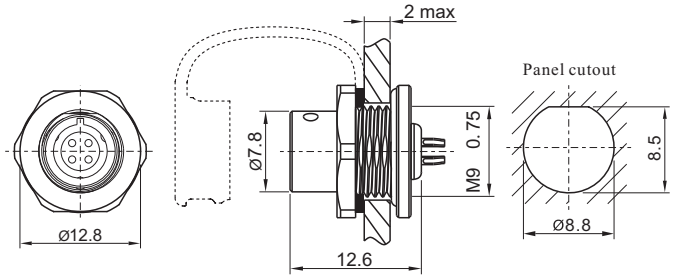
SF611B/P__ SF611B/S__

Rear-nut mount
Mate with SF610B



SF612B/P__ SF612B/S__

Front-nut mount
Mate with SF610B



SF615B/P__ SF615B/S__

Solder contact spec

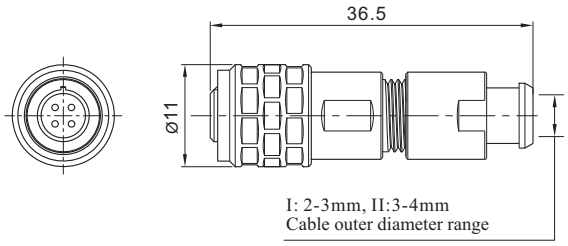
Number of contact	2	3	4	5
Male contact face view				
Rated current (A)	3	3	3	3
Contact diameter(mm)	ø0.6 2	ø0.6 3	ø0.6 4	ø0.6 5
Rated voltage (AC.V)	30	30	30	30
Test voltage(AC.V) 1 min	500	500	500	500
Contact resistance(mΩ)	10	10	10	10
Wire size(mm²/AWG)	⩽0.5/20	⩽0.5/20	⩽0.5/20	⩽0.5/20

SF6 Anti-bending

NEW

SF6
ANTI-BENDING

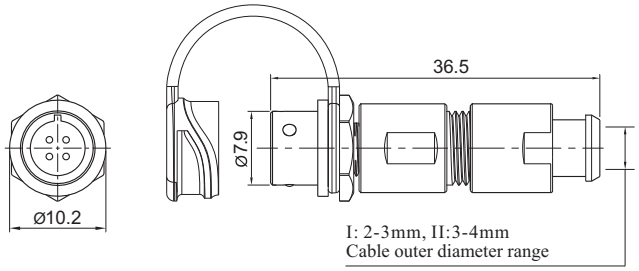
Cable connector
Mate with SF611S, SF612B, SF615B



SF610S/P__ SF610S/S__

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

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)	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(mm²/AWG)	⩽0.5/20	⩽0.5/20	⩽0.5/20	⩽0.5/20

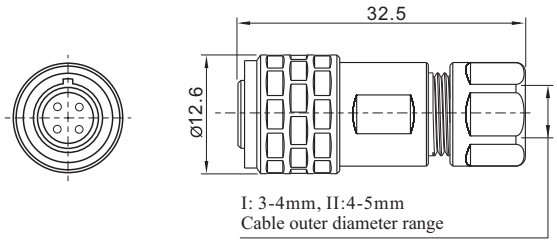
SF8 Series

SF810B/P__ SF810B/S__

Male contact

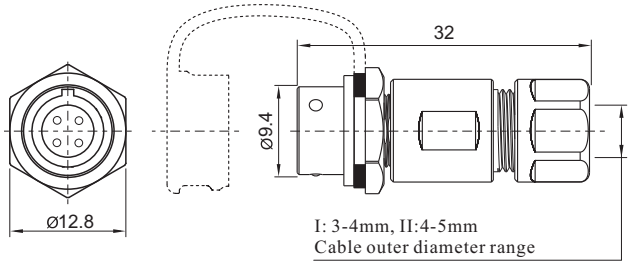
Cable outer diameter range
I: 3-4mm, II:4-5mm
Number of contact
Female contact

Cable connector
Mate with SF811B, SF812B, SF815B



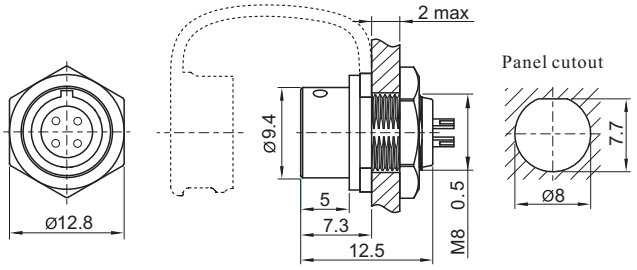
SF811B/P__ SF811B/S__

In-line cable connector
Mate with SF810B



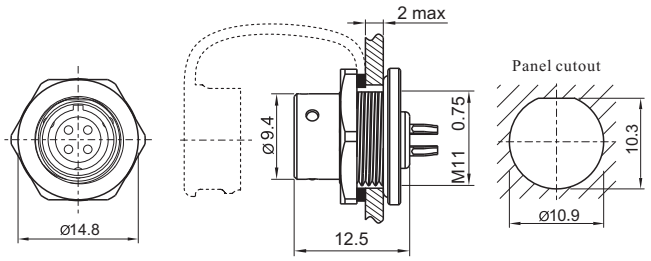
SF812B/P__ SF812B/S__

Rear-nut mount
Mate with SF810B



SF815B/P__ SF815B/S__

Front-nut mount
Mate with SF810B



Solder contact spec

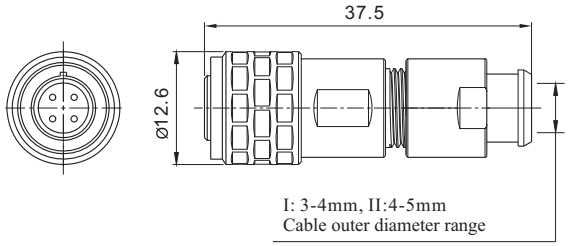
Number of contact	2	3	4	6	8
Male contact face view					
Rated current (A)	5	5	3	3	3
Contact diameter(mm)	ø1×2	ø1×3	ø0.6×4	ø0.6×6	ø0.6×8
Rated voltage (AC.V)	125	125	30	30	30
Test voltage(AC.V) 1 min	1000	1000	500	500	500
Contact resistance(mΩ)	5	5	10	10	10
Wire size (mm²/AWG)	≤0.75/18	≤0.75/18	≤0.5/20	≤0.5/20	≤0.5/20

SF8 Anti-bending

NEW

SF8
ANTI-BENDING

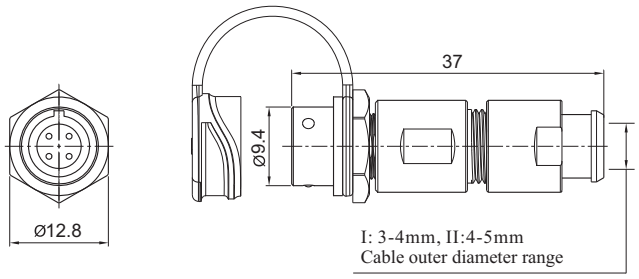
Cable connector
Mate with SF811S, SF812B, SF815B



SF810S/P__ SF810S/S__

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

In-line cable connector
Mate with SF810S



SF811S/P__ SF811S/S__

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 (mm²/AWG)	≤0.75/18	≤0.75/18	≤0.5/20	≤0.5/20	≤0.5/20

SF10 Series

SF1010 / P__ SF1010 / S__

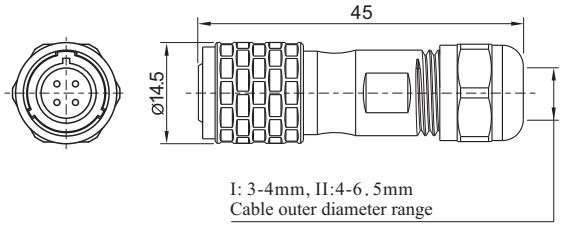
Male contact

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

Number of contact

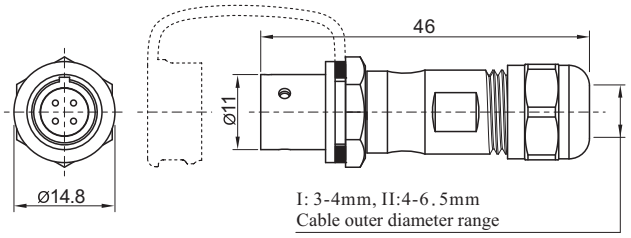
Female contact

Cable connector
Mate with SF1011, SF1012, SF1015



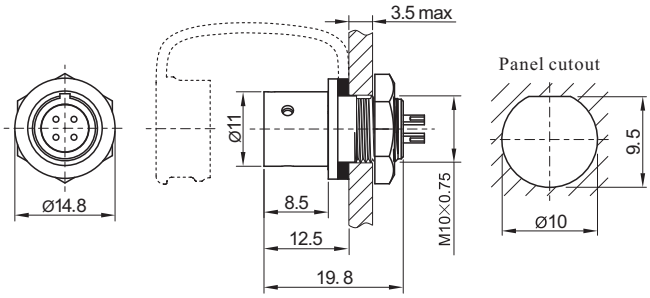
SF1011 / P__ SF1011 / S__

In-line cable connector
Mate with SF1010



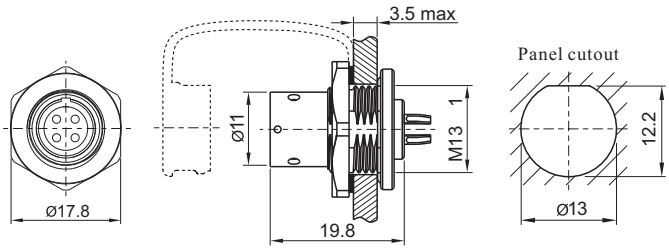
SF1012 / P__ SF1012 / S__

Rear-nut mount
Mate with SF1010



SF1015 / P__ SF1015 / S__

Front-nut mount
Mate with SF1010



Solder contact spec

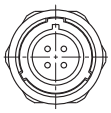
Number of contact	2	3	4	5
Male contact face view				
Rated current (A)	5	5	3	3
Contact diameter(mm)	Ø1×2	Ø1×3	Ø0.7×4	Ø0.7×5
Rated voltage (AC.V)	180	180	125	125
Test voltage(AC.V) 1 min	1000	1000	1000	1000
Contact resistance (mΩ)	5	5	10	10
Wire size (mm²/AWG)	⩽0.75/18	⩽0.75/18	⩽0.5/20	⩽0.5/20

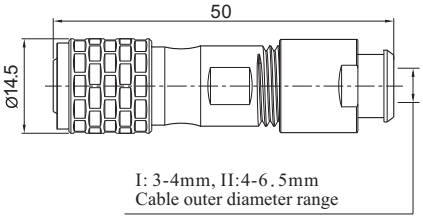
SF10 Anti-bending

NEW

SF10
ANTI-BENDING

Cable connector
Mate with SF1011S, SF1012, SF1015

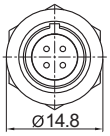


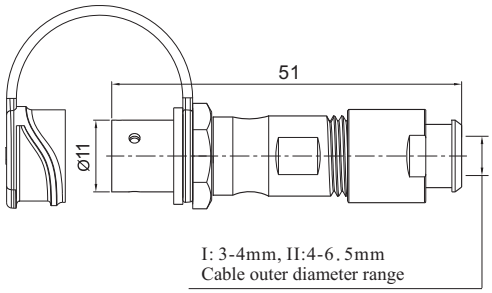


SF1010S/P__ SF1010S/S__

- 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)

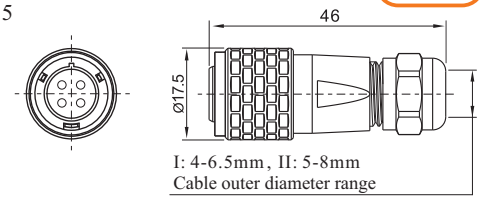
Solder contact spec

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(mm²/AWG)	≤0.75/18	≤0.75/18	≤0.5/20	≤0.5/20

SF1210 / P__ SF1210 / S__

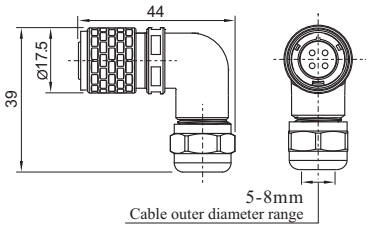
- Male contact
- Cable outer diameter I: 4-6.5mm, II: 5-8mm
- Number of contact
- Female contact

Cable connector
Mate with SF1211, SF1212, SF1213, SF1215



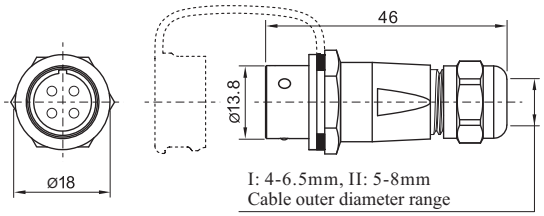
SF1214 / P__II SF1214 / S__II

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



SF1211 / P__ SF1211 / S__

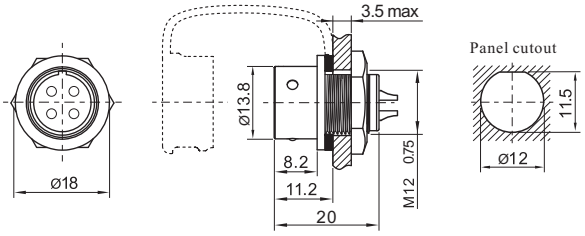
In-line cable connector
Mate with SF1210, SF1214



SF1212 / P__ SF1212 / S__

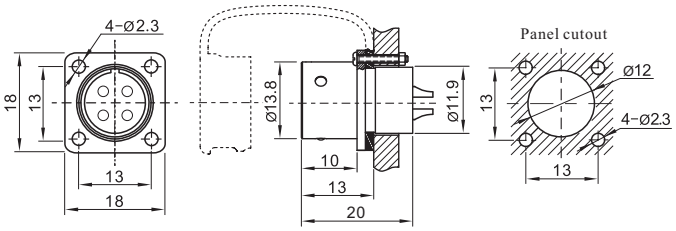
- Number of contact

Rear-nut mount
Mate with SF1210, SF1214



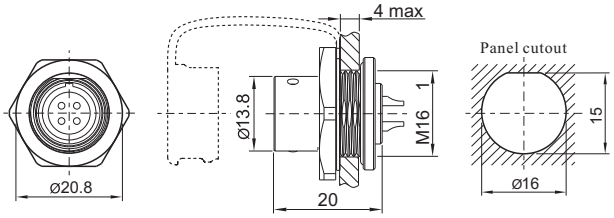
SF1213 / P__ SF1213 / S__

Square flange
Mate with SF1210, SF1214



SF1215 / P__ SF1215 / S__

Front-nut mount
Mate with SF1210, SF1214



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 (mm²/AWG)	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18	≤0.5/20

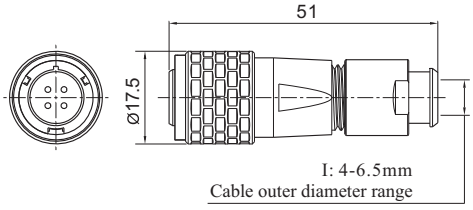
SF12 Anti-bending

NEW

SF1210S/P__ SF1210S/S__

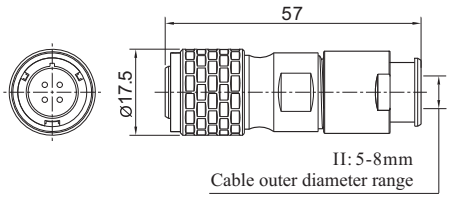
- Male contact
- Cable outer diameter I: 4-6.5mm
- Number of contact
- Female contact

Cable connector
Mate with SF1211S, SF1212, SF1213, SF1215



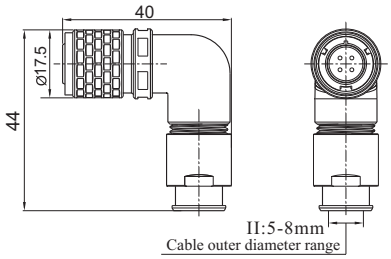
SF1210S/P__II SF1210S/S__II

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



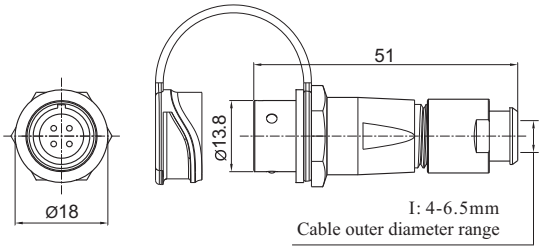
SF1214S/P__II SF1214S/S__II

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



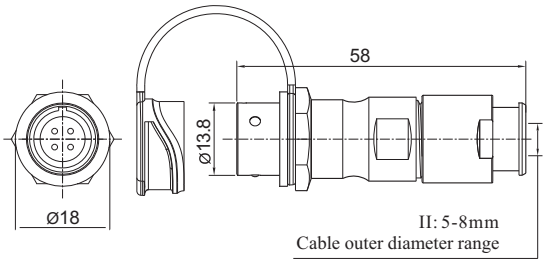
SF1211S/P__ SF1211S/S__

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

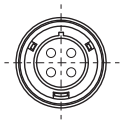
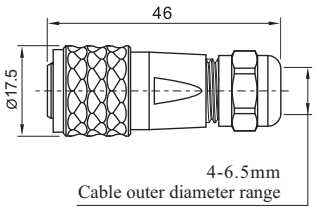
Number of contact	2	3	4	5	6	7	9
Male contact face view							
Rated current (A)	13	13	5	5	5	5	3
Contact diameter(mm)	Ø1.6X2	Ø1.6X3	Ø1X4	Ø1X5	Ø1X6	Ø1X7	Ø0.7X9
Rated voltage (AC.V)	250	250	200	180	125	125	125
Test voltage(AC.V) 1 min	1500	1500	1500	1000	1000	1000	1000
Contact resistance (mΩ)	2.5	2.5	5	5	5	5	10
Wire size (mm²/AWG)	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18	≤0.5/20

SF12 Series

Cable connector
Mate with SF1211, SF1212, SF1213

SF1210 / P__ **SF1210 / S__**

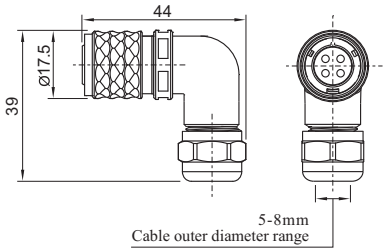
- Male contact
- (U): c UL us LISTED
- Number of contact
- Female contact

Angled cable connector
Mate with SF1211, SF1212, SF1213

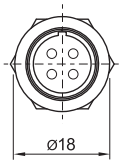
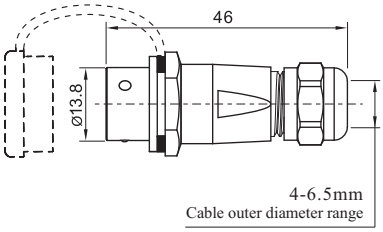
SF1214 / P_ II _ **SF1214 / S_ II _**

- (U): c UL us LISTED



In-line cable connector
Mate with SF1210, SF1214

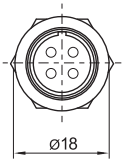
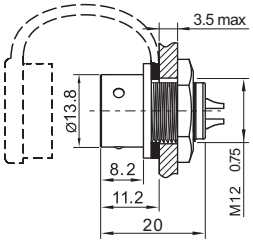
SF1211 / P__ **SF1211 / S__**

Rear-nut mount
Mate with SF1210, SF1214

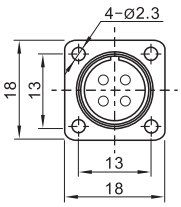
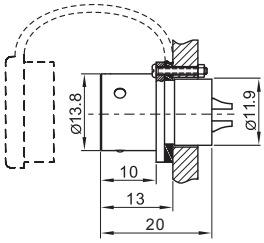
SF1212 / P__ **SF1212 / S__**

- (U): c UL us LISTED
- Number of contact

Square flange
Mate with SF1210, SF1214

SF1213 / P__ **SF1213 / S__**

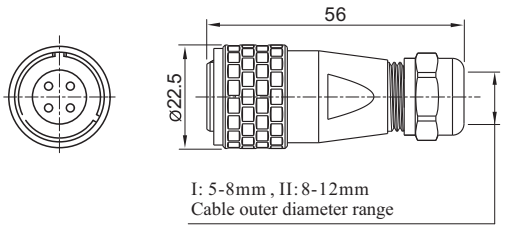
Solder contact spec

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

Cable connector
Mate with SF1611, SF1612, SF1613, SF1615

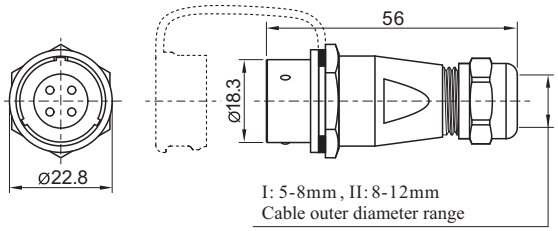
SF1610 / P_ _-_ SF1610 / S_ _-_

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



In-line cable connector
Mate with SF1610

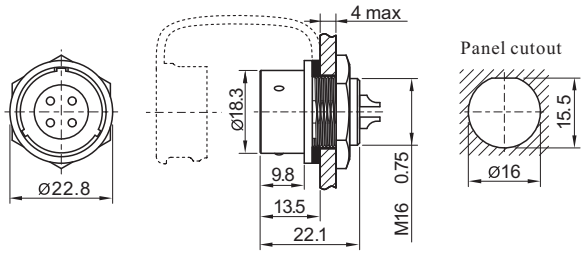
SF1611 / P_ _-_ SF1611 / S_ _-_



Rear-nut mount
Mate with SF1610

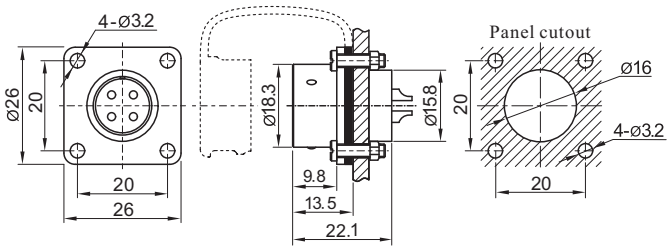
SF1612 / P_-_ SF1612 / S_-_

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



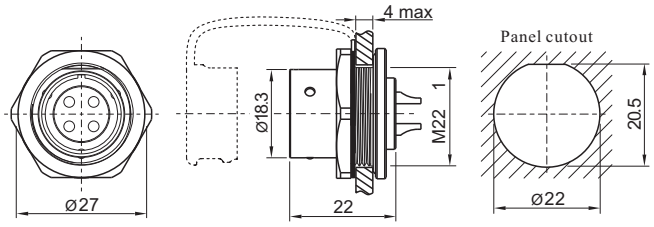
Square flange
Mate with SF1610

SF1613 / P_-_ SF1613 / S_-_



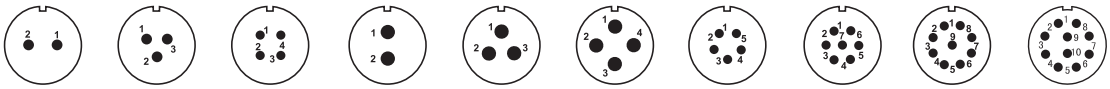
Front-nut mount
Mate with SF1610

SF1615 / P_-_ SF1615 / S_-_



Solder contact spec

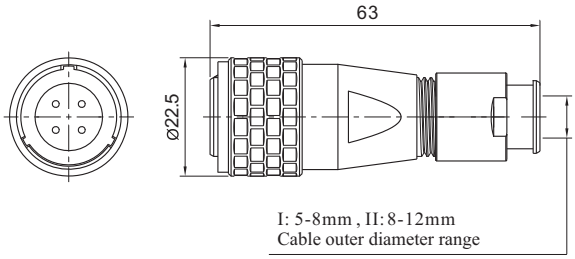
★压接芯件参数表在P22页 Crimp contact spec see P22

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 (mm²/AWG)	≤2/14	≤2/14	≤0.75/18	≤2/14	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18

SF16 Anti-bending

NEW

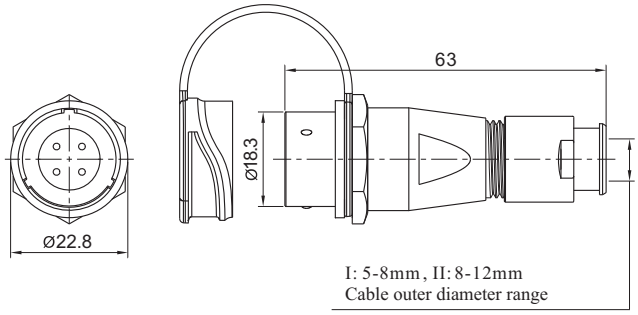
Cable connector
Mate with SF1611S, SF1612, SF1613, SF1615



SF1610S/P__ __-__ SF1610S/S__ __-__

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

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

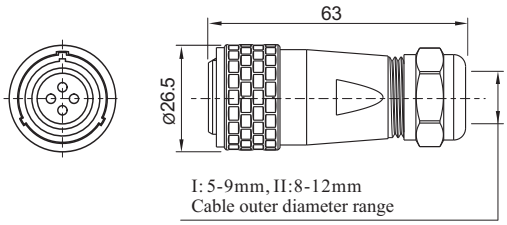
★ Crimp contact spec see P22

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 (mm²/AWG)	≤2/14	≤2/14	≤0.75/18	≤2/14	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18

Cable connector
Mate with SF2011, SF2012
SF2013, SF2015

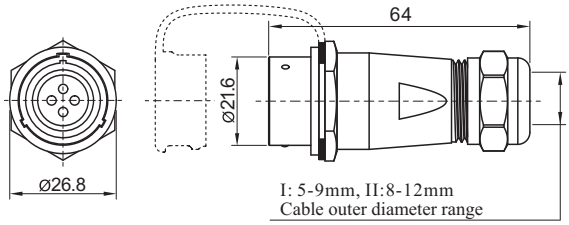
SF2010/P__-__ SF2010/S__-__

- 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

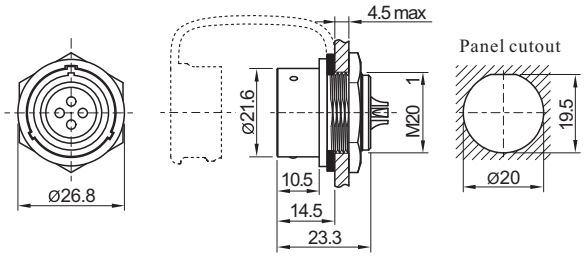
SF2011/P__-__ SF2011/S__-__



Rear-nut mount
Mate with SF2010

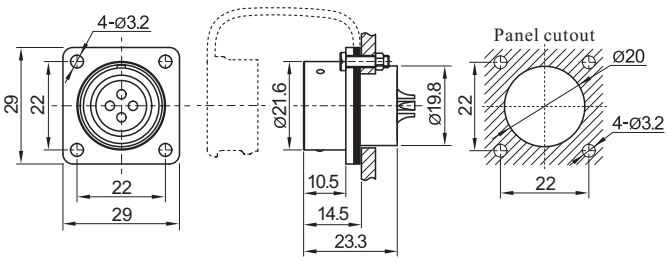
SF2012 / P__-__ SF2012 / S__-__

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



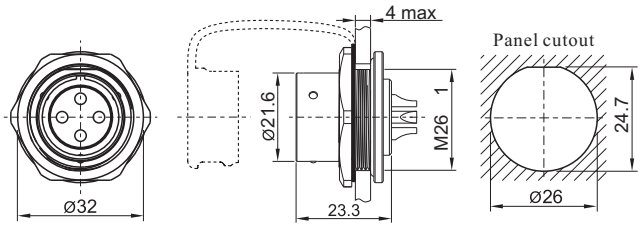
Square flange
Mate with SF2010

SF2013 / P__-__ SF2013 / S__-__



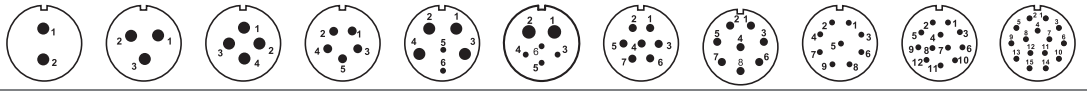
Front-nut mount
Mate with SF2010

SF2015 / P__-__ SF2015 / S__-__



Solder contact spec

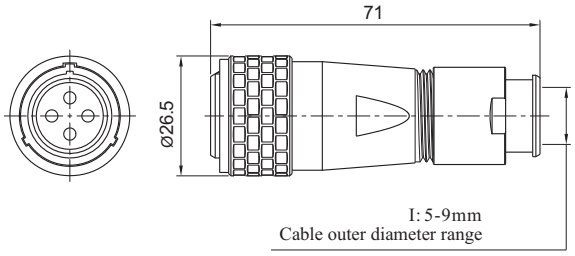
★Crimp contact spec see P22 ★Screw contact spec see P23

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 (mm²/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(mm²/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	/	/	/	/	/	/	/	/

SF20 Anti-bending

NEW

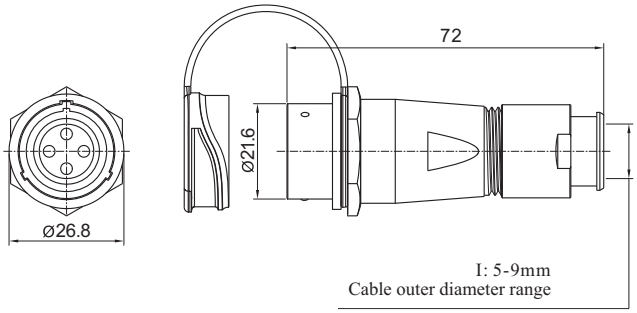
Cable connector
Mate with SF2011S, SF2012, SF2013, SF2015



SF2010S/P__ __-__ SF2016S/S__ __-__

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

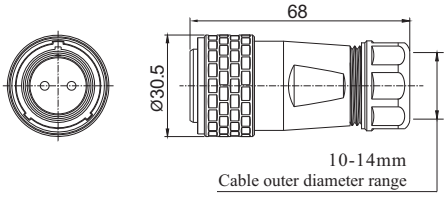
★Crimp contact spec see P22 ★Screw contact spec see P23

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 (mm²/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(mm²/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	/	/	/	/	/	/	/	/

Cable connector
Mate with SF2411, SF2412, SF2413, Sf2415

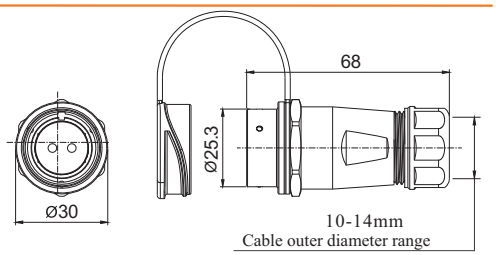
SF2410 / P__ __-__ SF2410 / S__ __-__

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



In-line cable connector
Mate with SF2410

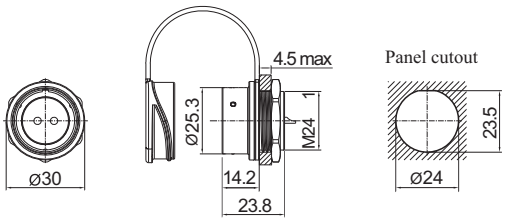
SF2411 / P__ __-__ SF2411 / S__ __-__



Rear-nut mount
Mate with SF2410

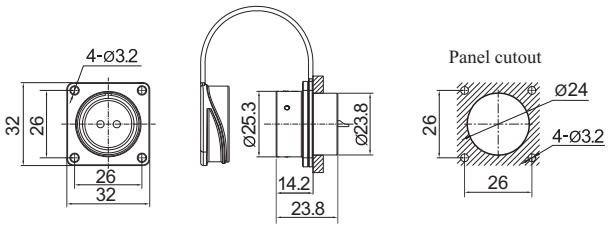
SF2412/ P __-__ SF2412 / S__-__

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



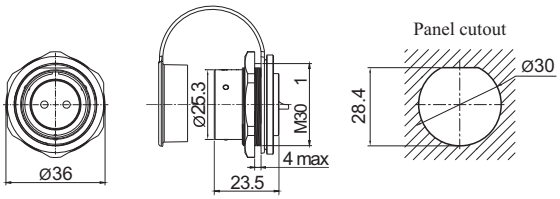
Square flange
Mate with SF2410

SF2413/ P __-__ SF2413 / S__-__



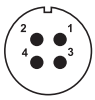
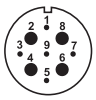
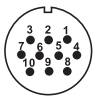
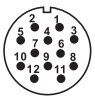
Front-nut mount
Mate with SF2410

SF2415/ P __-__ SF2415 / S__-__



Solder contact spec

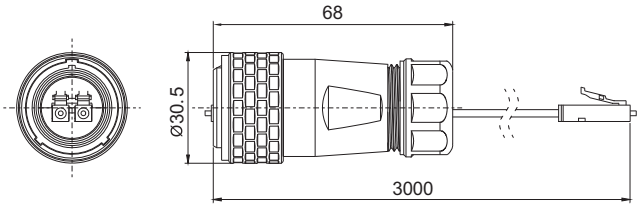
★Crimp contact spec see P22 ★Screw contact spec see P23

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 (mm²/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	/	/	/	/	/

SF2410/PLC -__

Cable length:
1.0 m
3.0 m
5.0 m

Plug with LC adapter
Mate with SF2411, SF2412, SF2413

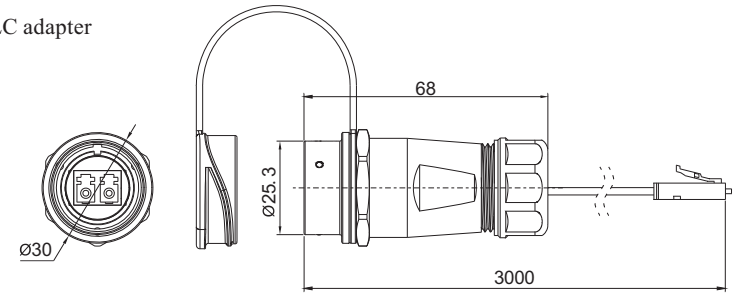


★ Cable length can be customized

SF2411/SLC -__

Cable length:
1.0 m
3.0 m
5.0 m

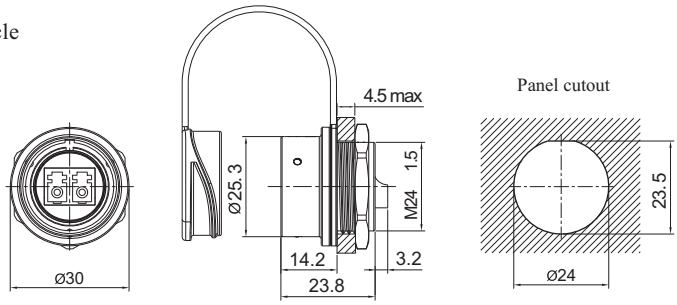
Rreceptacle with LC adapter
Mate with SF2410



★ Cable length can be customized

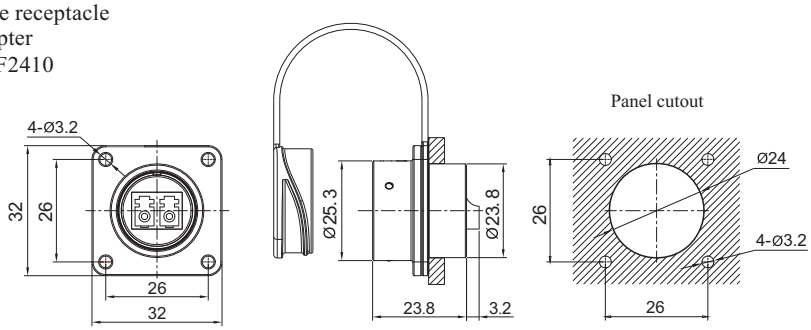
SF2412/SLC

Rear-nut mount receptacle
with LC adapter
Mate with SF2410



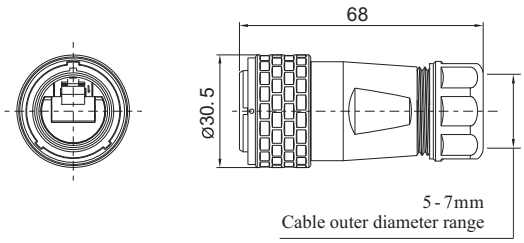
SF2413/SLC

Square flange receptacle
with LC adapter
Mate with SF2410



SF2410/PRJ45

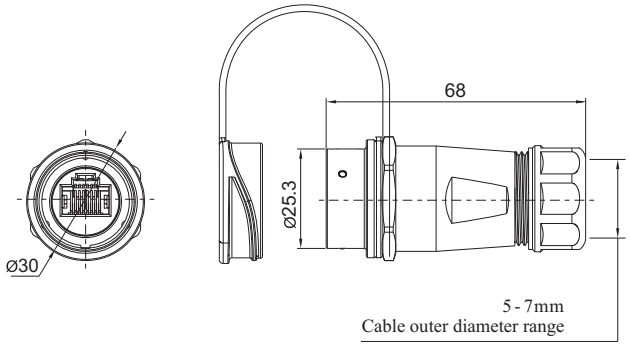
RJ45 Plug
Mate with SF2411, SF2412, SF2413



SF2411/SRJ45

Standard: Cat 5
-C6: Cat6

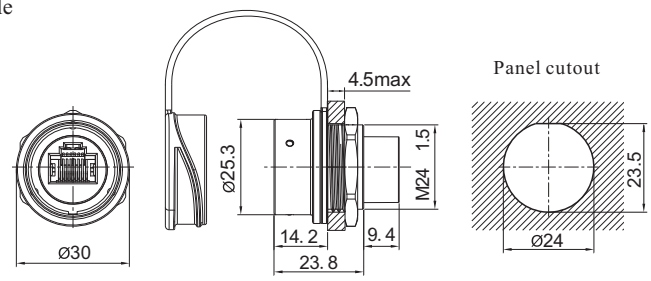
RJ45 Receptacle
Mate with SF2410



SF2412/SRJ45

Standard: Cat 5
-C6: Cat6

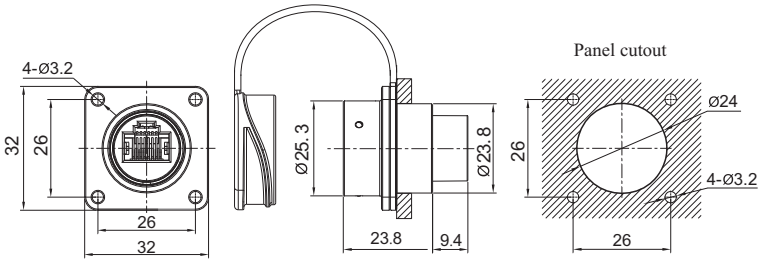
RJ45 Rear-nut mount receptacle
Mate with SF2410



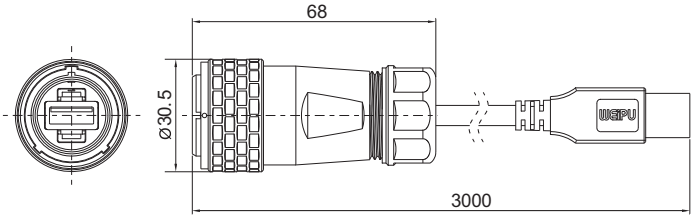
SF2413/SRJ45

Standard: Cat 5
-C6: Cat6

RJ45 Square flange receptacle
Mate with SF2410



USB3.0 Plug
Mate with SF2411, SF2412, SF2413

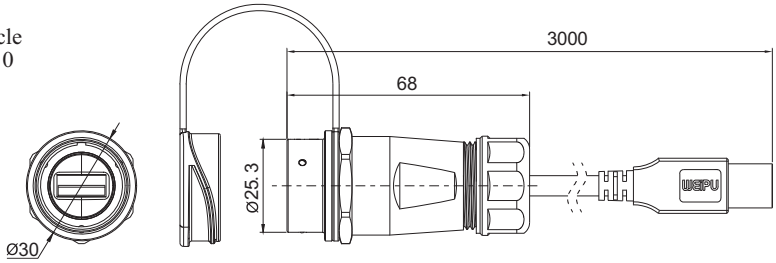


SF2410/PUSB3.0 -__

Cable length:
1.0 m
3.0 m

★ Cable length can be customized

USB3.0 Receptacle
Mate with SF2410

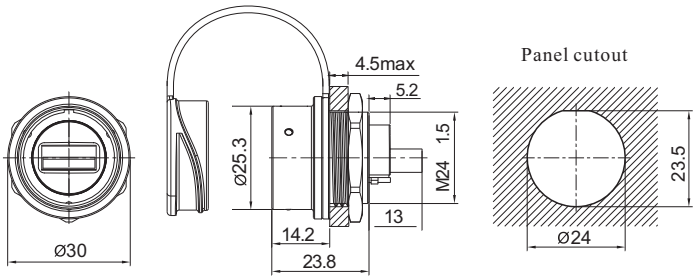


SF2411/SUSB3.0 -__

Cable length:
1.0 m
3.0 m

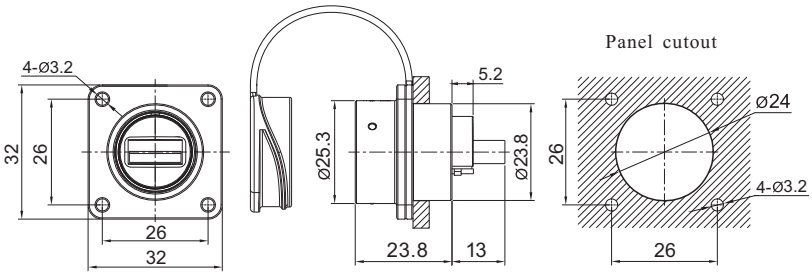
★ Cable length can be customized

USB3.0 Rear-nut mount receptacle
Mate with SF2410



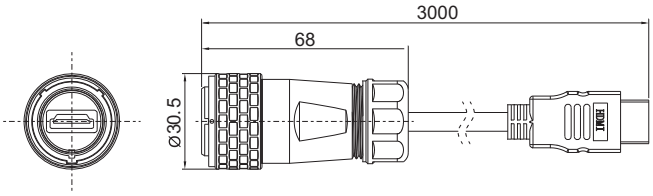
SF2412/SUSB3.0

USB3.0 Square flange receptacle
Mate with SF2410



SF2413/SUSB3.0

HDMI2.0 Plug
Mate with SF2411, SF2412, SF2413

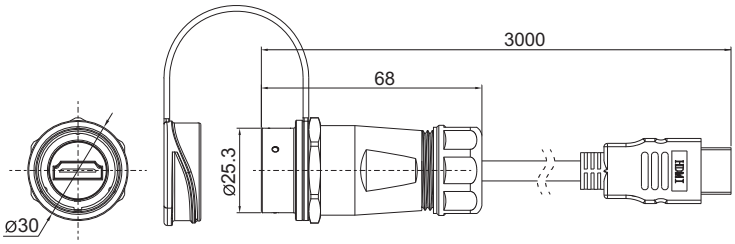


SF2410/PHDMI2.0-__

Cable length:
1.0 m
3.0 m

★ Cable length can be customized

HDMI2.0 Receptacle
Mate with SF2410

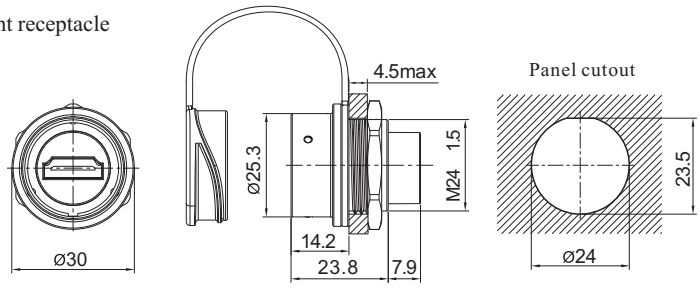


SF2411/SHDMI2.0-__

Cable length:
1.0 m
3.0 m

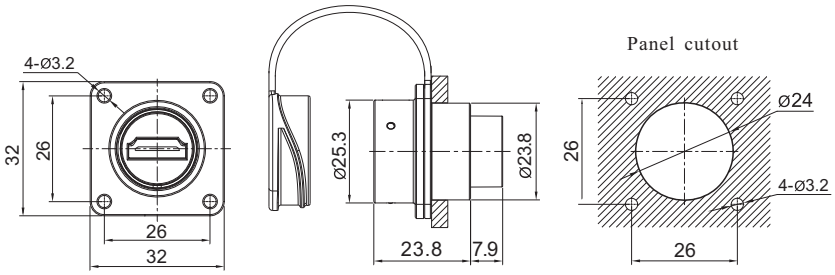
★ Cable length can be customized

HDMI2.0 Rear-nut mount receptacle
Mate with SF2410



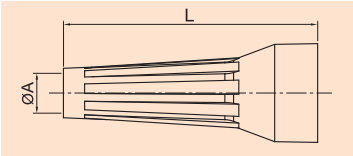
SF2412/SHDMI2.0

HDMI2.0 Square flange receptacle
Mate with SF2410



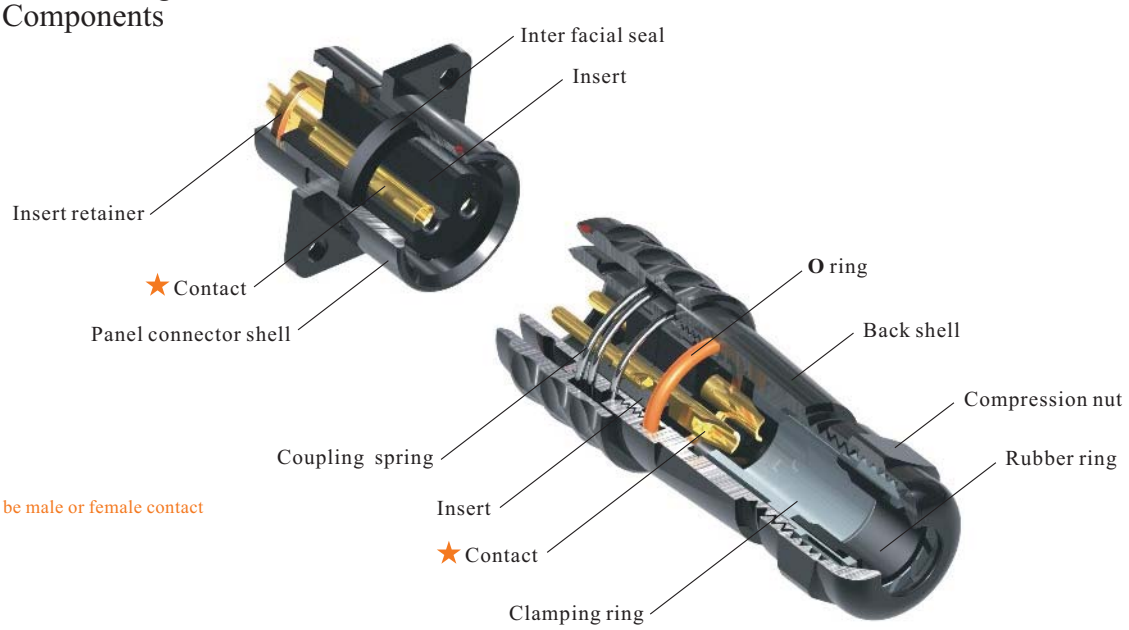
SF2413/SHDMI2.0

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 SF12I	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		6.3	35	6	6.5		
SF12-FZ（5-5.5)-TBK	SF12II SF16I	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		7.8	42	7.6	8		
SF16-FZ（8-8.5)-TBK	SF16II SF20	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		

Part Section Showing Internal Components



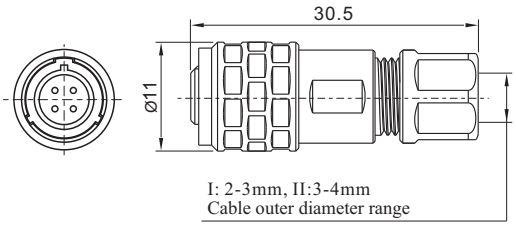
★ Each side can be male or female contact

Material and spec

Coupling	Push-pull
Shell material	Anodized aluminium
Insert material	PPS, max temperature 260 ℃ Date: PBT, PVC
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 SA20: I: 5-9mm, II: 8-12mm SA24: 10-14mm SA28: I: 9-13mm, II: 13-16mm
IP rating	IP67 (mated)
Mating cycle	500 USB:1000
Temperature range	-40℃ ~ +85℃; Signal、Date：-20℃ ~ +70℃
Insulation resistance	2000MΩ
Transmission Speed	Cat 5: 100Mbps Cat 6: 100-1000Mbps

SA6 Series

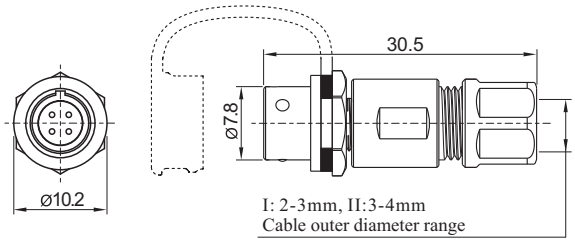
Cable connector
Mate with SA611, SA612, SA615



SA610 / P___ SA610 / S___

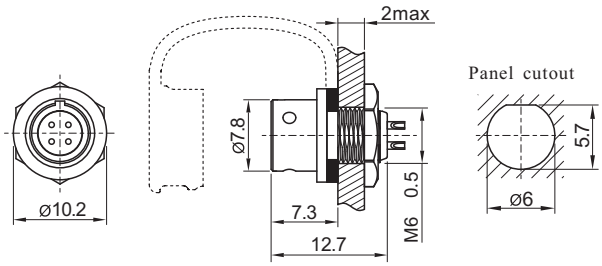
- Male contact
- Colour:
  - B: Black
  - S: Silver
  - L: Blue (special order)
  - G: Green (special order)
  - R: Red (special order)
- Cable outer diameter range
  I: 2-3mm, II:3-4mm
- Number of contact
- Female contact

In-line cable connector
Mate with SA610



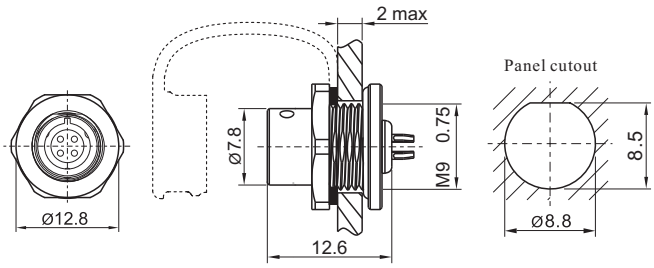
SA611 / P___ SA611 / S___

Rear-nut mount
Mate with SA610



SA612 / P__ SA612 / S__

Front-nut mount
Mate with SA610



SA615 / P__ SA615 / S__

Solder contact spec

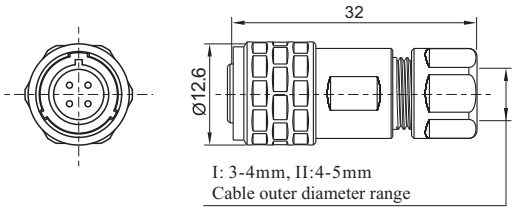
Number of contact	2	3	4	5
Male contact face view				
Rated current (A)	3	3	3	3
Contact diameter(mm)	ø0.6 2	ø0.6 3	ø0.6 4	ø0.6 5
Rated voltage (AC.V)	30	30	30	30
Test voltage(AC.V) 1 min	500	500	500	500
Contact resistance (mΩ)	10	10	10	10
Wire size (mm²/AWG)	⩽0.5/20	⩽0.5/20	⩽0.5/20	⩽0.5/20

SA8 Series

Cable connector
Mate with SA811, SA812, SA815

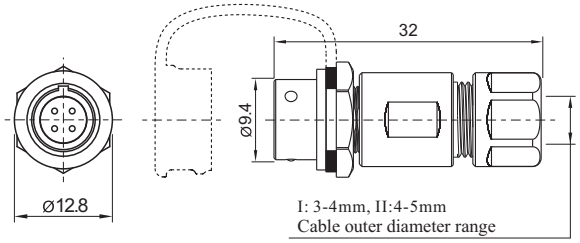
SA810 / P___ SA810 / S___

- 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



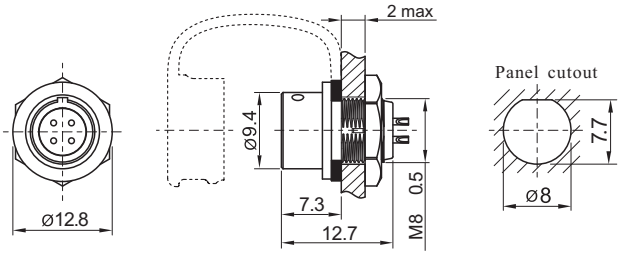
In-line cable connector
Mate with SA810

SA811 / P___ SA811 / S___



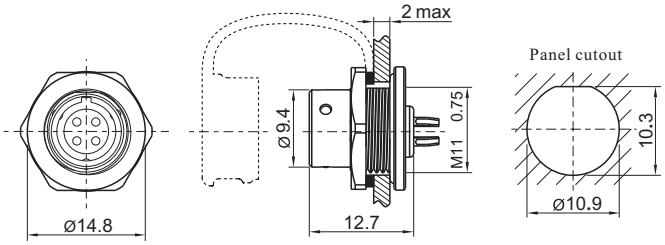
Rear-nut mount
Mate with SA810

SA812 / P__ SA812 / S__



Front-nut mount
Mate with SA810

SA815 / P__ SA815 / S__

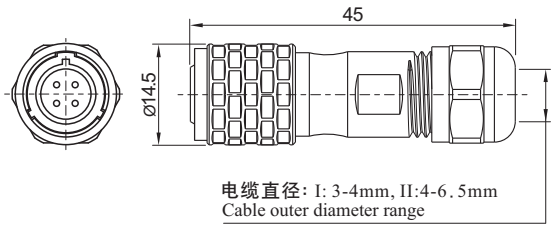


Solder contact spec

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 (mm²/AWG)	≤0.75/18	≤0.75/18	≤0.5/20	≤0.5/20	≤0.5/20

SA10 Series

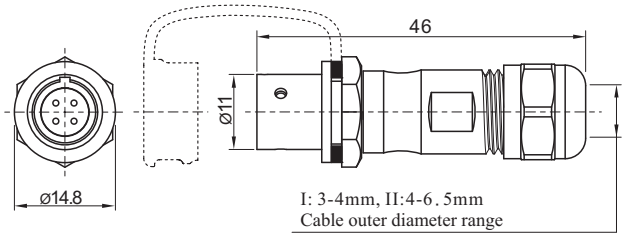
Cable connector
Mate with SA1011, SA1012, SA1015



SA1010 / P___ SA1010 / S___

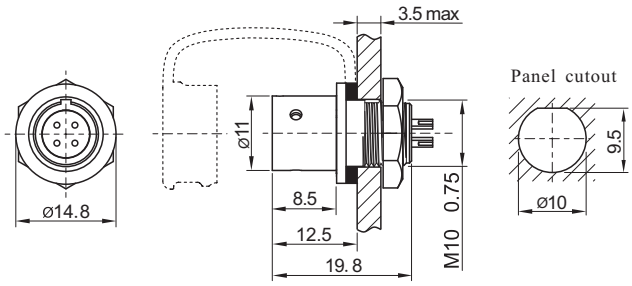
- Male contact
- Colour:
  - B: Black
  - S: Silver
  - L: Blue (special order)
  - G: Green (special order)
  - R: Red (special order)
- Cable outer diameter range
  I: 3-4mm, II:4-6.5mm
- Number of contact
- Female contact

In-line cable connector
Mate with SA1010



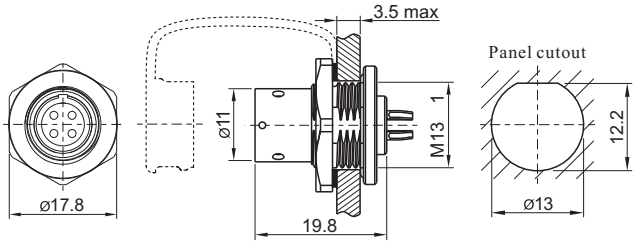
SA1011 / P___ SA1011 / S___

Rear-nut mount
Mate with SA1010



SA1012 / P__ SA1012 / S__

Front-nut mount
Mate with SA1010



SA1015 / P__ SA1015 / S__

Solder contact spec

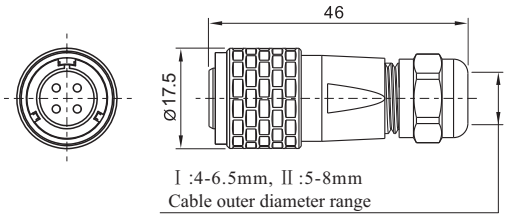
Number of contact	2	3	4	5
Male contact face view				
Rated current (A)	5	5	3	3
Contact diameter(mm)	Ø1X2	Ø1X3	Ø0.7X4	Ø0.7X5
Rated voltage (AC.V)	180	180	125	125
Test voltage(AC.V) 1 min	1000	1000	1000	1000
Contact resistance (mΩ)	5	5	10	10
Wire size (mm^2/AWG)	≤0.75/18	≤0.75/18	≤0.5/20	≤0.5/20

SA 12

Cable connector
Mate with SA1211, SA1212
SA1213, SA1215

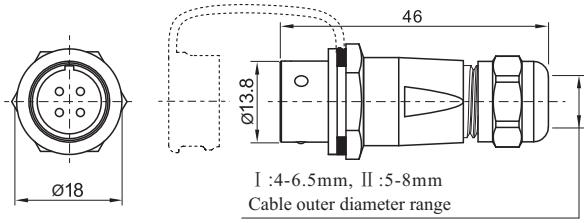
SA1210/P___ SA1210/S___

- 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



In-line cable connector
Mate with SA1210

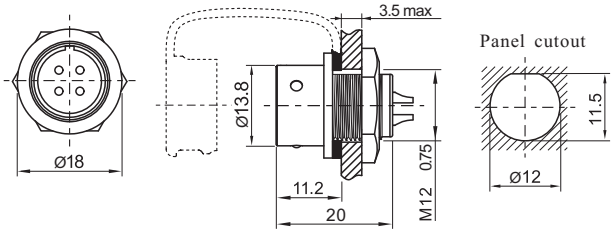
SA1211/P___ SA1211/S___



Rear-nut mount
Mate with SA1210

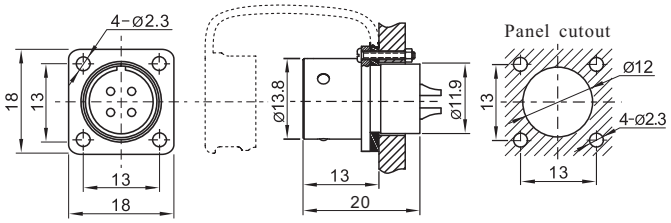
SA1212/P__ SA1212/S__

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



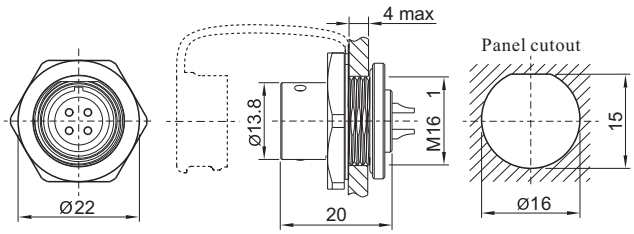
Square flange
Mate with SA1210

SA1213/P__ SA1213/S__



Front-nut mount
Mate with SA1210

SA1215/P__ SA1215/S__



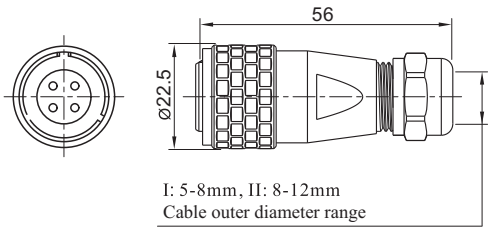
Solder contact spec

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 (mm²/AWG)	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18	≤0.5/20

Cable connector
Mate with SA1611, SA1612, SA1613, SA1615

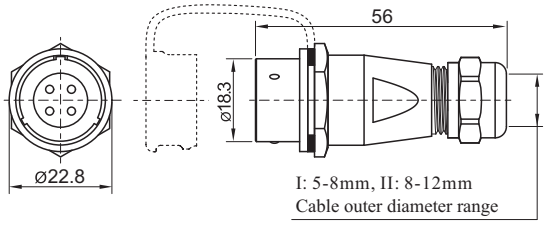
SA1610/P___-__ SA1610/S___-__

- Male contact
- Female contact
- Number of contact
- Cable outer diameter I: 5−8mm, 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

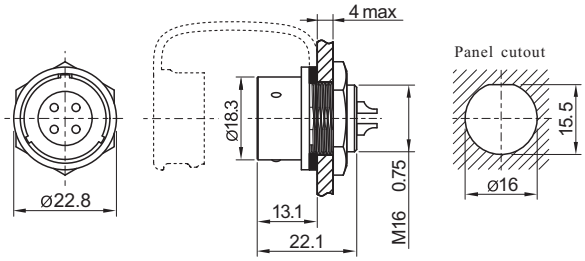
SA1611/P___-__ SA1611/S___-__



Rear-nut mount
Mate with SA1610

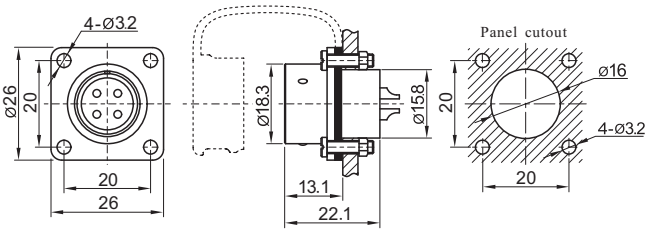
SA1612/P__-__ SA1612/S__-__

- Number of contact
- 1: solder, 3: crimp
- Colour



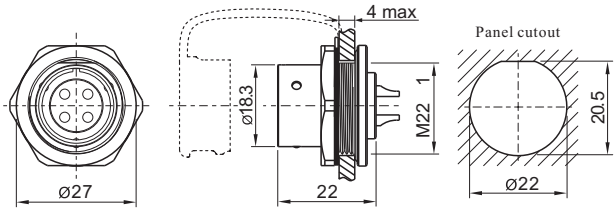
Square flange
Mate with SA1610

SA1613/P__-__ SA1613/S__-__



Front-nut mount
Mate with SA1610

SA1615/P__-__ SA1615/S__-__



Solder contact spec

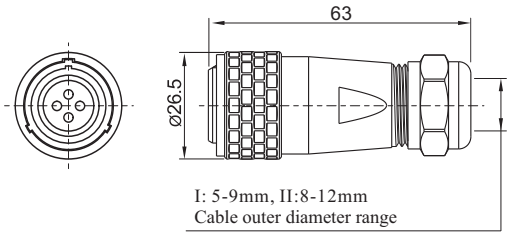
★Crimp contact spec see P22

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 (mm²/AWG)	≤2/14	≤2/14	≤0.75/18	≤2/14	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18

Cable connector
Mate with SA2011, SA2012, SA2013, SA2015

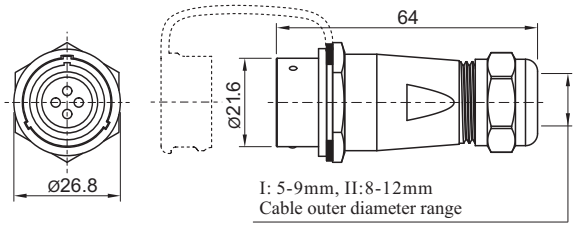
SA2010/P__ __-__ SA2010/S__ __-__

- 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



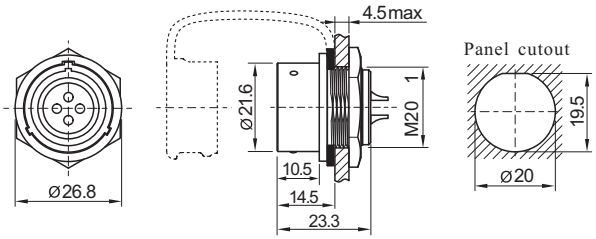
In-line cable connector
Mate with SF2010

SA2011/P__ __-__ SA2011/S__ __-__



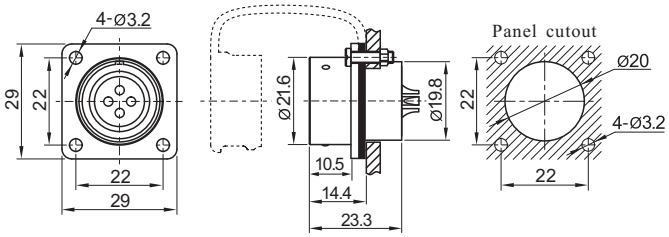
Rear-nut mount
Mate with SA2010

SA2012/P__ __-__ SA2012/S__ __-__



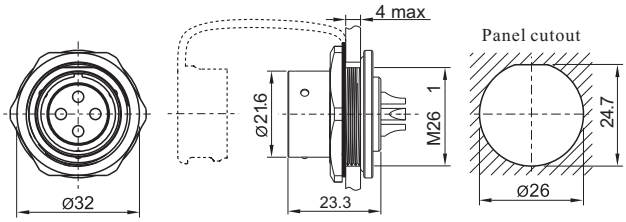
Square flange
Mate with SA2010

SA2013/P__ __-__ SA2013/S__ __-__



Front-nut mount
Mate with SA2010

SA2015/P__ __-__ SA2015/S__ __-__



Solder contact spec

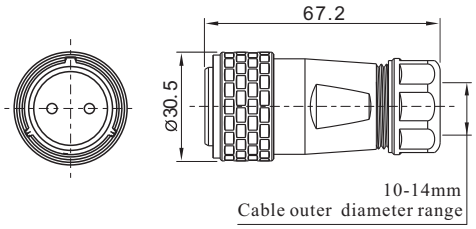
★Crimp contact spec see P22 ★Screw contact spec see P23

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	/	/	/	/	/	/	/	/

Cable connector
Mate with SA2411, SA2412, SA2413

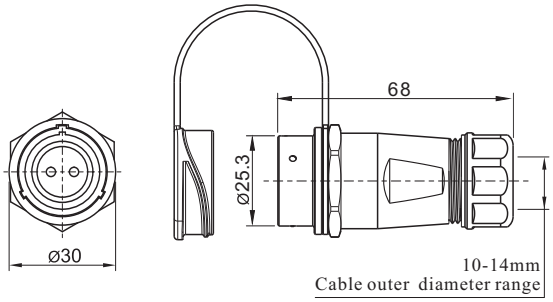
SA2410/P__-__ SA2410/S__-__

- 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)



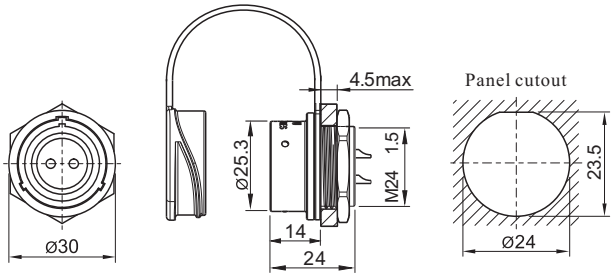
In-line cable connector
Mate with SA2410

SA2411/P__-__ SA2411/S__-__



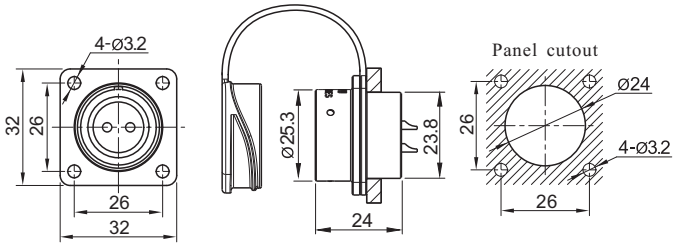
Rear-nut mount
Mate with SA2410

SA2412/P__-__ SA2412/S__-__



Square flange
Mate with SA2410

SA2413/P__-__ SA2413/S__-__



Solder contact spec

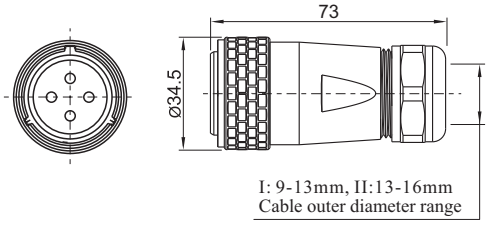
★Crimp contact spec see P22 ★Screw contact spec see P23

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 (mm²/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 (mm²/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	/	/	/	/	/

Cable connector
Mate with SA2811, SA2812, SA2813, SA2815

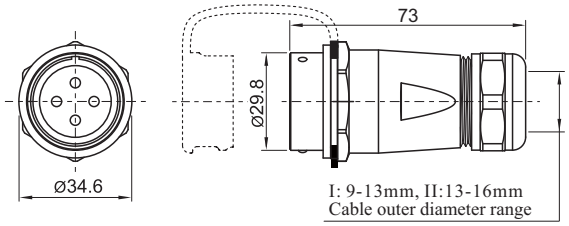
SA2810/P__ __-__ SA2810/S__ __ __-__

- Male contact
- Female contact
- Number of contact
- Cable outer diameter range I: 9-13mm, II:13-16mm
- Colour: B: Black, S: Silver, L: Blue (special order), G: Green (special order), R: Red (special order)
- 1: solder, 2: screw, 3: crimp



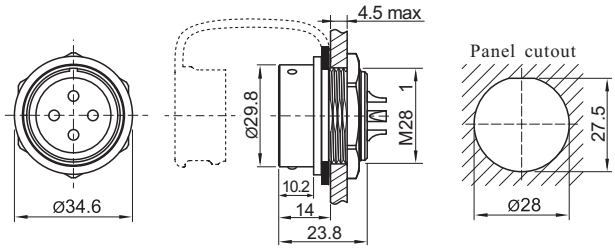
In-line cable connector
Mate with SA2810

SA2811/P__ __-__ SA2811/S__ __-__



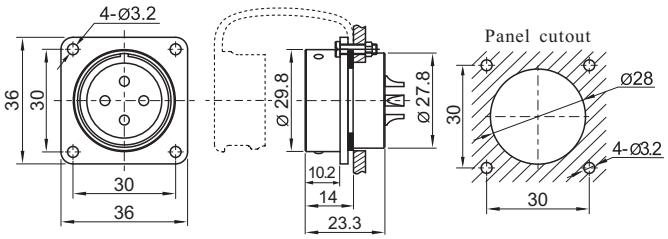
Rear-nut mount
Mate with SA2810

SA2812/P__ __-__ SA2812/S__ __-__



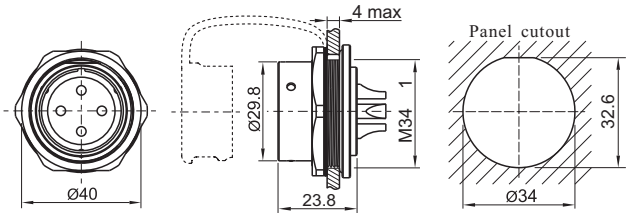
Square flange
Mate with SA2810

SA2813/P__ __-__ SA2813/S__ __-__



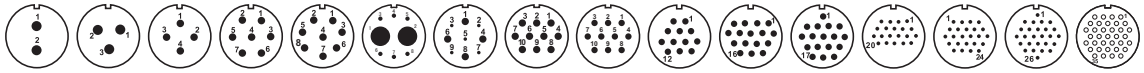
Front-nut mount
Mate with SA2810

SA2815/P__ __-__ SA2815/S__ __-__



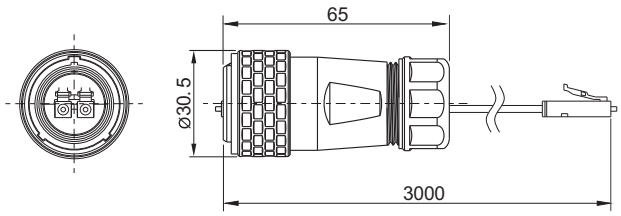
Solder contact spec

★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(mm²/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	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	/	/	/	/	/	/	/	/

NEW

Plug with LC adapter
Mate with SA2411, SA2412, SA2413



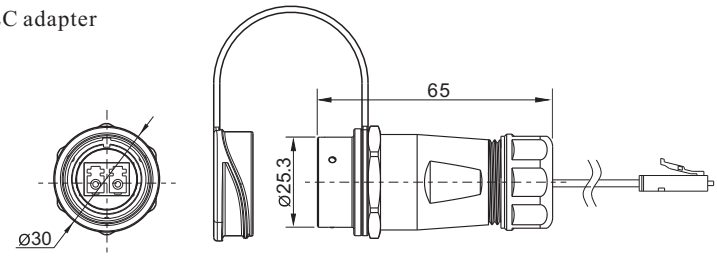
SA2410/PLC-__

Cable length:
1.0 m
3.0 m
5.0 m

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

★ Cable length can be customized

Rreceptacle with LC adapter
Mate with SA2410



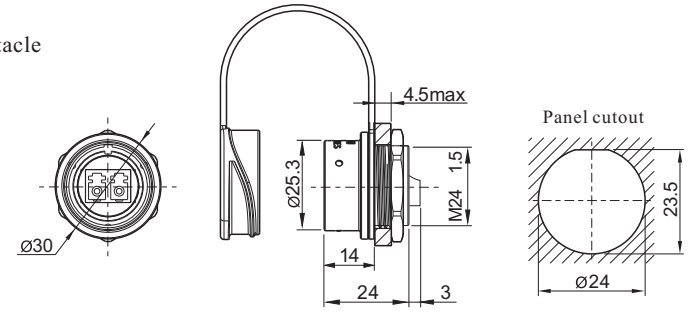
SA2411/SLC-__

Cable length:
1.0 m
3.0 m
5.0 m

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

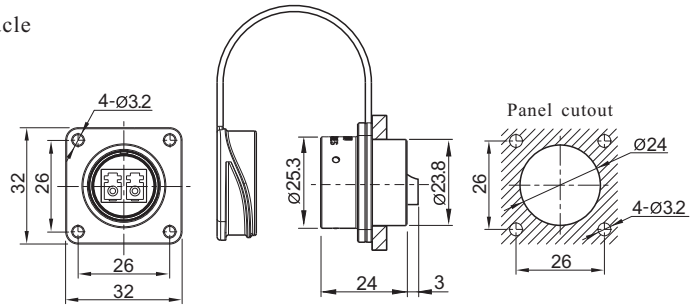
★ Cable length can be customized

Rear-nut mount receptacle
with LC adapter
Mate with SA2410



SA2412/SLC__

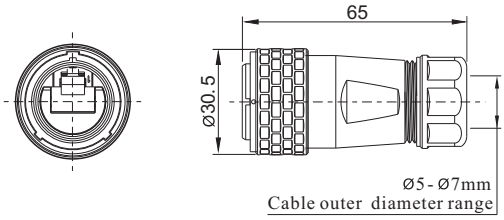
Square flange receptacle
with LC adapter
Mate with SA2410



SA2413/SLC__

NEW

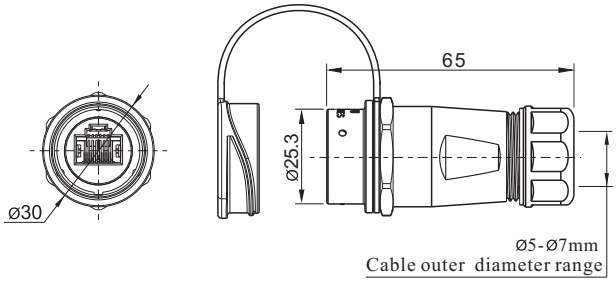
RJ45 Plug
Mate with SA2411, SA2412, SA2413



SA2410/PRJ45 __

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

RJ45 Receptacle
Mate with SA2410

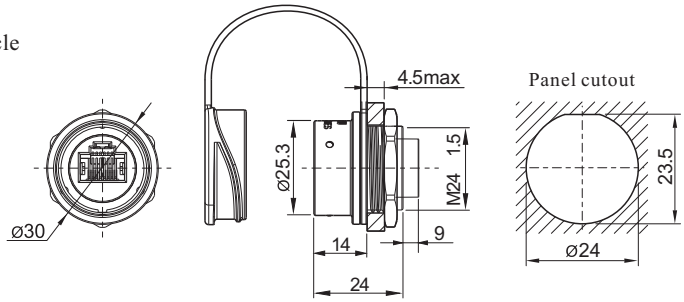


SA2411/SRJ45 __ __

Standard:
Cat 5
-C6: Cat6

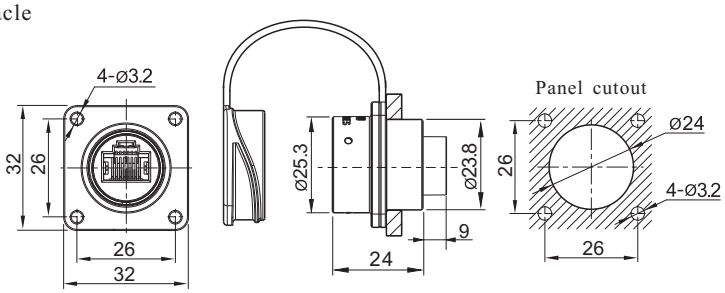
Colour:
B: Black
S: Silver
L: Blue (special order)
G: Green (special order)
R: Red (special order)

RJ45 Rear-nut mount receptacle
Mate with SA2410



SA2412/SRJ45 __ __

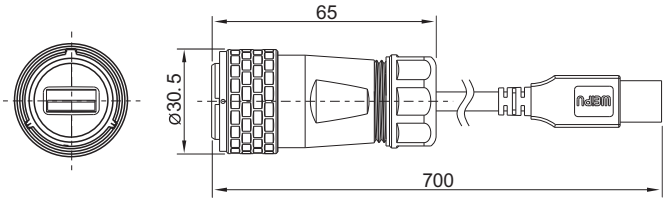
RJ45 Square flange receptacle
Mate with SA2410



SA2413/SRJ45 __ __

NEW

USB3.0 Plug
Mate with SA2411, SA2412, SA2413



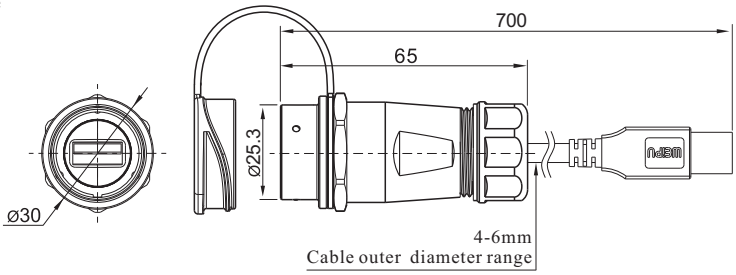
SA2410/PUSB3.0-___

Cable length:
1.0 m
3.0 m

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

★ Cable length can be customized

USB3.0 Receptacle
Mate with SA2410



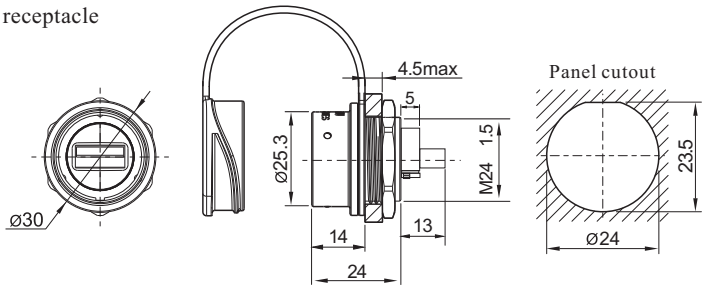
SA2411/SUSB3.0-___

Cable length:
1.0 m
3.0 m

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

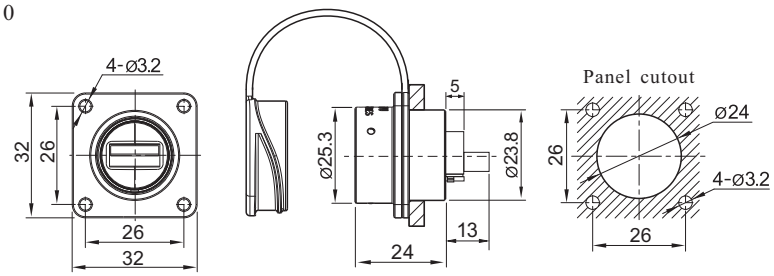
★ Cable length can be customized

USB3.0 Rear-nut mount receptacle
Mate with SA2410



SA2412/SUSB3.0__

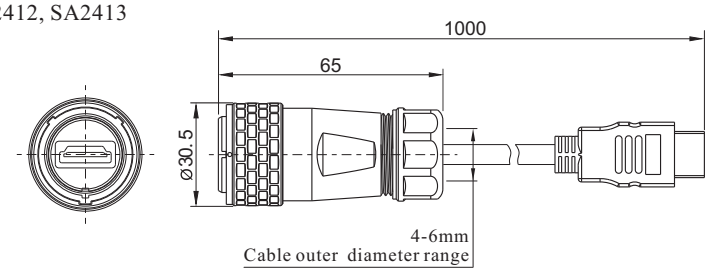
USB3.0 Square flange receptacle
Mate with SA2410



SA2413/SUSB3.0__

NEW

HDMI2.0 Plug
Mate with SA2411, SA2412, SA2413



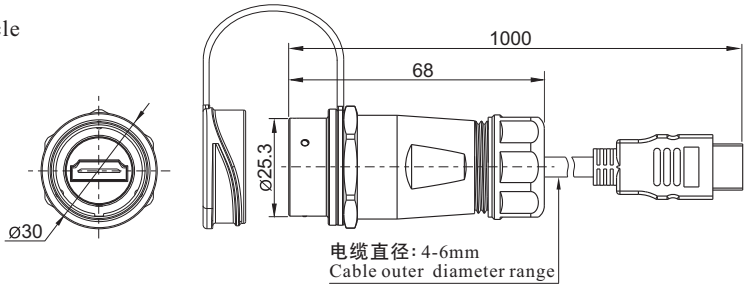
SA2410/PHDMI2.0-___

Cable length:
1.0 m
3.0 m

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

★ Cable length can be customized

HDMI2.0 Receptacle
Mate with SA2410



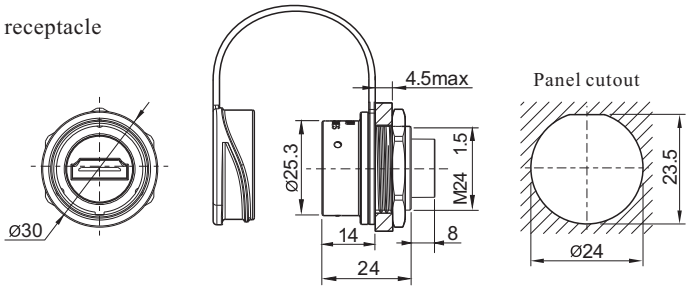
SA2411/SHDMI2.0-___

Cable length:
1.0 m
3.0 m

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

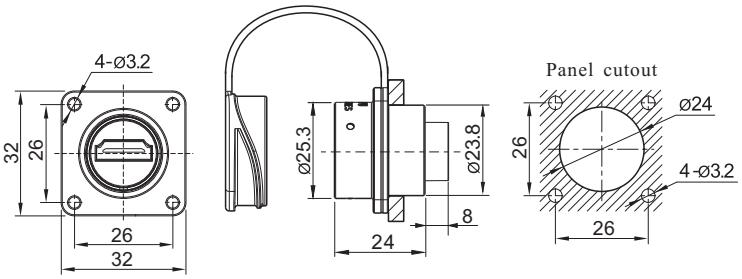
★ Cable length can be customized

HDMI2.0 Rear-nut mount receptacle
Mate with SA2410



SA2412/SHDMI2.0__

HDMI2.0 Square flange receptacle
Mate with SA2410



SA2413/SHDMI2.0__

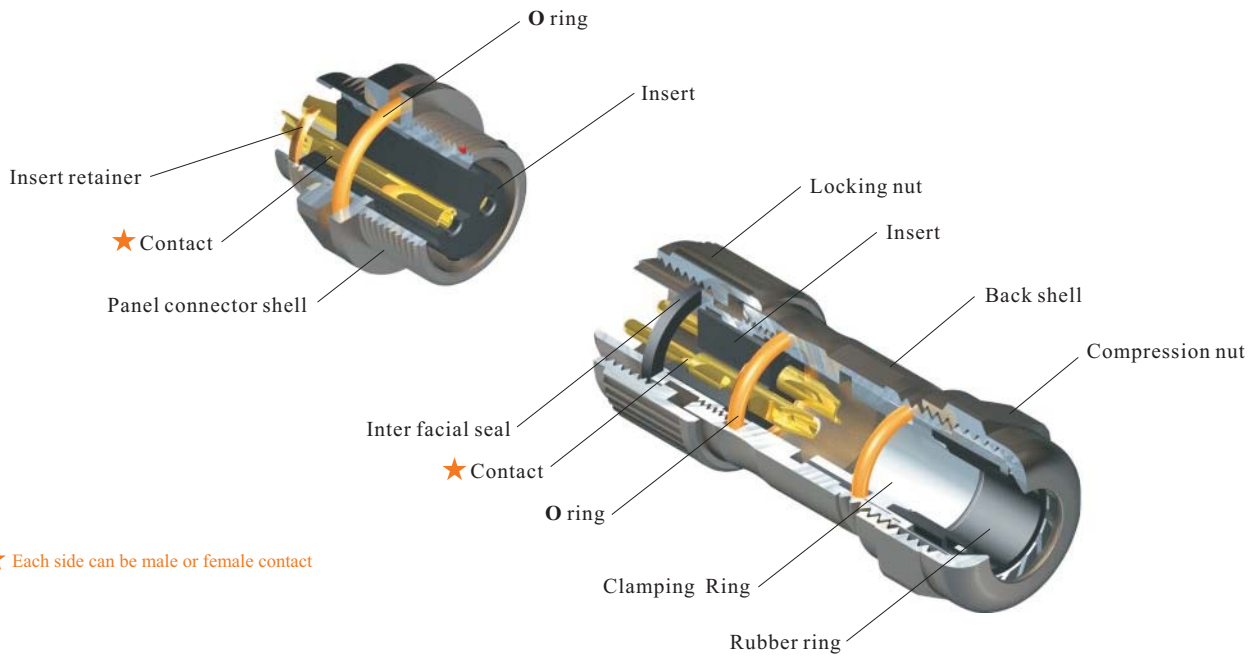
WEIPU

WEIPU®

IP67

ST 12

Part Section Showing Internal Components



★ 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 ℃
Contact material	Brass with gold plating
Termination	Solder
Cable outer diameter range	5-8mm
IP rating	IP67 (mated)
Mating cycle	500
Temperature range	-40℃~+85℃
Insulation resistance	2000MΩ

ST12 Series

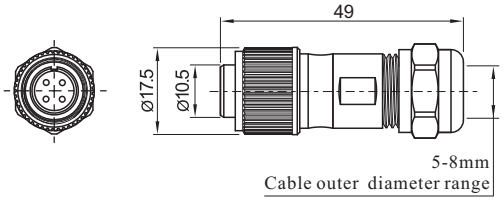
ST1210 / P__ **ST1210 / S__**

Male contact

Number of contact

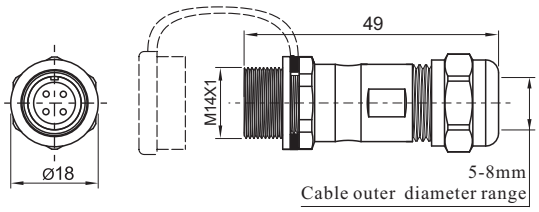
Female contact

Cable connector
Mate with ST1211, ST1212, ST1213, ST1214



ST1211 / P__ **ST1211 / S__**

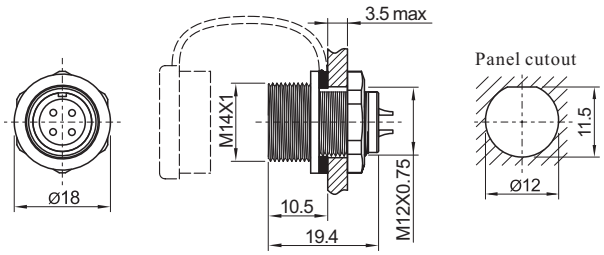
In-line cable connector
Mate with ST1210



ST1212 / P__ **ST1212 / S__**

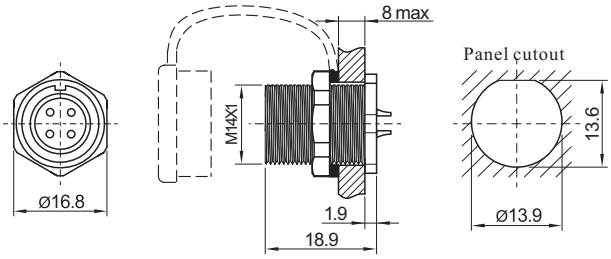
芯数 Number of contact

Rear-nut mount
Mate with ST1210



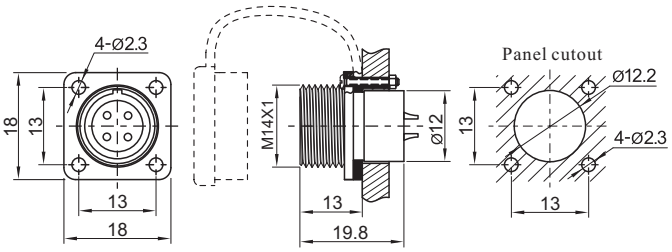
ST1213 / P__ **ST1213 / S__**

Front-nut mount
Mate with ST1210



ST1214 / P__ **ST1214 / S__**

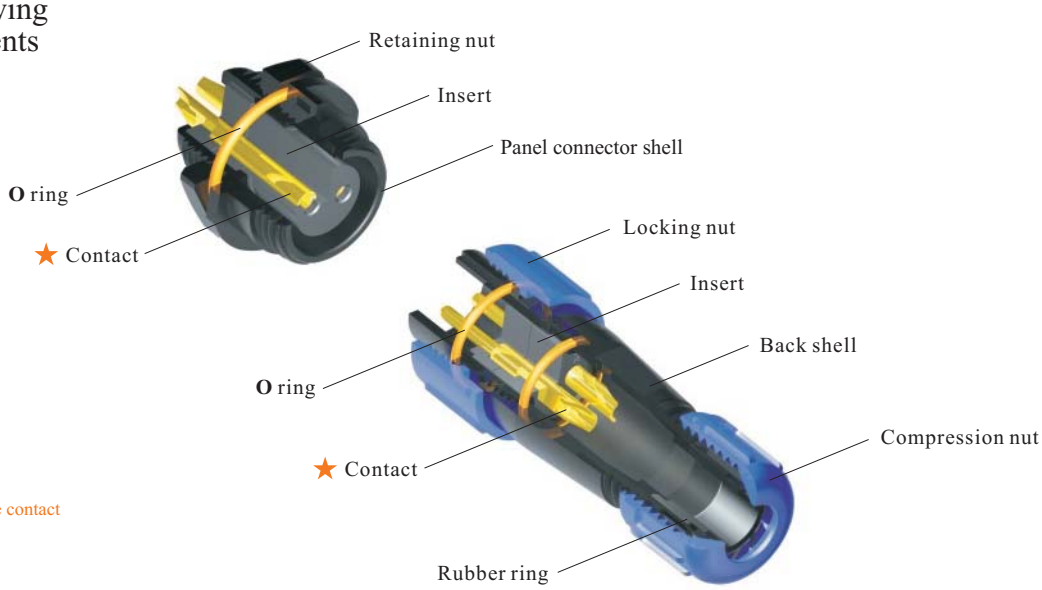
Square flange
Mate with ST1210



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)	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18	≤0.5/20

Part Section Showing Internal Components



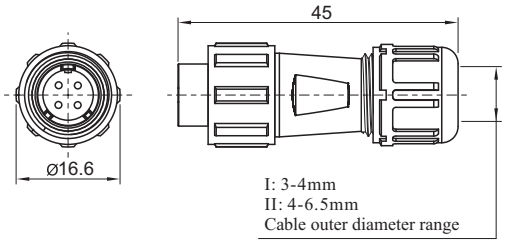
★ Each side can be male or female contact

Material and spec

Coupling	Threaded
Shell material	PC, PA66, fire resistance: V-0
Insert material	PPS, max temperature 260 ℃ PA66, max temperature 125℃ (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℃~+85℃
Insulation resistance	2000 MΩ

SP11 Series

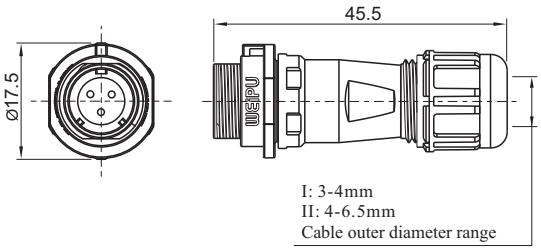
Cable connector
Mate with SP1111,
SP1111C, SP1112



SP1110/P__ __ SP1110/S__ __

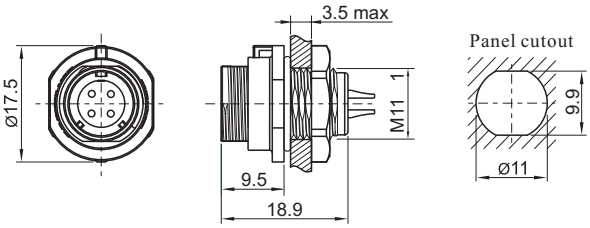
- Male contact
- Cable outer diameter range I: 3-4mm II: 4-6.5mm
- Number of contact
- Female contact

In-line cable connector C
Mate with SP1110



SP1111C/P__ __ SP1111C/S__ __

Rear-nut mount
Mate with SP1110



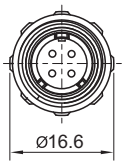
SP1112/P__ SP1112/S__

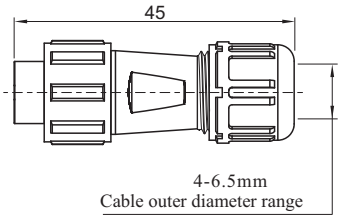
Solder contact spec

Number of contact	2	3	4	5
Male contact face view				
Rated current (A)	5	5	3	3
Contact diameter(mm)	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 (mm²/AWG)	⩽0.75/18	⩽0.75/18	⩽0.5/20	⩽0.5/20

SP11 Series

Cable connector
Mate with SP1111, SP1112

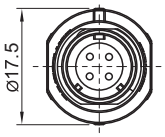


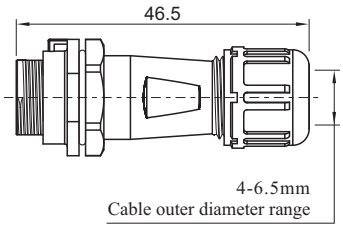


SP1110/P__ __ **SP1110/S__ __**

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

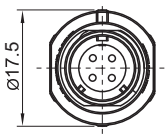
In-line cable connector
Mate with SP1110

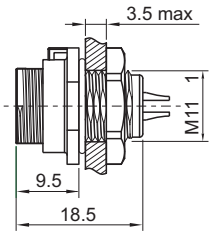


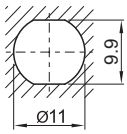


SP1111/P__ __ **SP1111/S__ __**

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

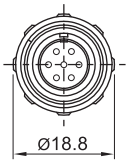
SP13 Series

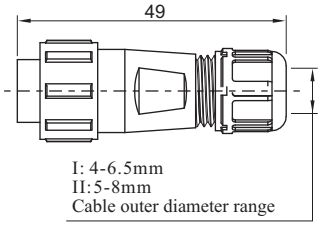
SP1310 / P__ **SP1310 / S__**

Male contact

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

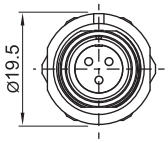
Cable connector
Mate with SP1311,
SP1311C, SP1312

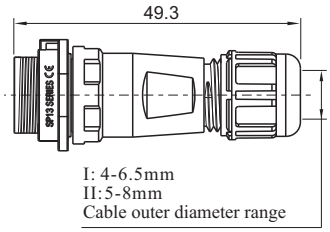




SP1311C / P__ **SP1311 C/ S__**

In-line cable connector C
Mate with SP1310

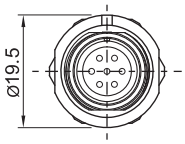


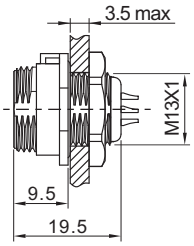


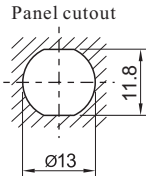
SP1312 / P__ **SP1312 / S__**

芯数 Number of contact

Rear-nut mount
Mate with SP1310

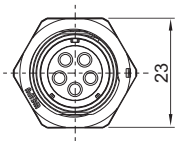


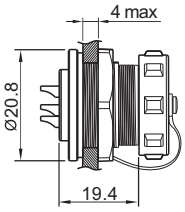


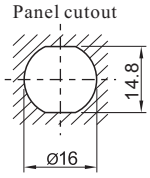


SP1315/ P__ **SP1315 / S__**

Front-nut mount
Mate with SP1310







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)	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18	≤0.5/20

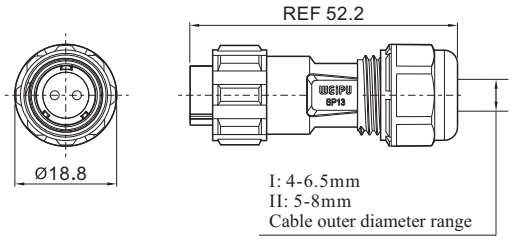
SP13 Series

NEW

SP1310 / P__-9

- Number of contact
- Male contact

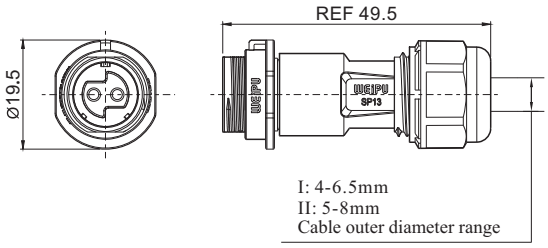
Plug with horizontal mount screw
Mate with SP1311, SP1312



SP1311 / S__-9

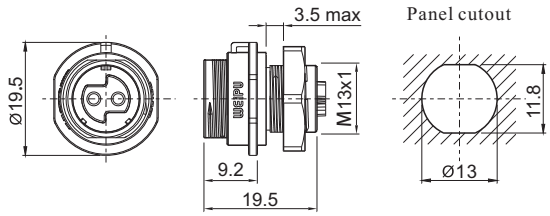
- Female contact

Connector with horizontal mount screw
Mate with SP1310



SP1312 / S__-9

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



Allen Key size: 1.3

Allen Key size: 0.9

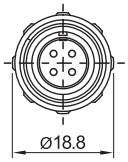
Note: 2mm, 3mm Hex key spec: H1.3; 4mm Hex key spec: H0.9

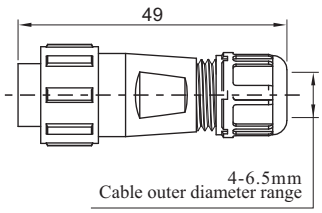
Screw contact spec

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 (mm²/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

SP13 Series

Cable connector
Mate with SP1311, SP1312

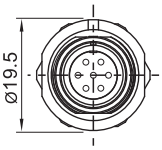


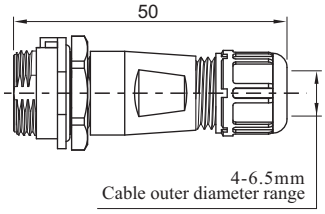


SP1310 / P_ _ **SP1310 / S_ _**

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

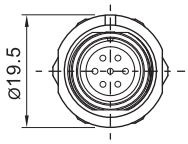
In-line cable connector
Mate with SP1310

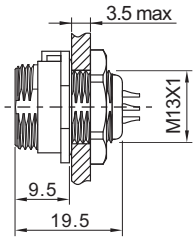


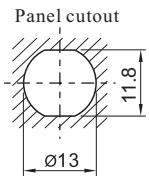


SP1311 / P_ _ **SP1311 / S_ _**

Rear-nut mount
Mate with SP1310







SP1312 / P_ _ **SP1312 / S_ _**

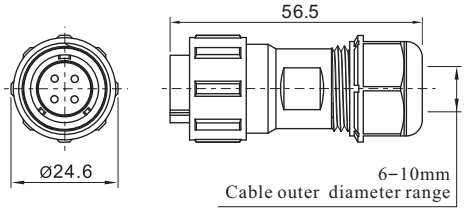
- (CU):
- Number of contact

Solder contact spec

Number of contact	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)	200	180	125	125	125
Test voltage(AC.V) 1 min	1500	1000	1000	1000	1000
Contact resistance (mΩ)	5	5	5	5	10
Wire size (AWG)	18	18	18	18	20

SP17 Series

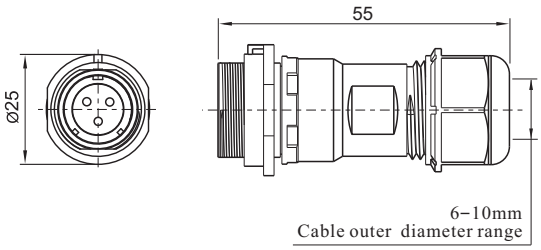
Cable connector
Mate with SP1711, SP1711C, SP1712



SP1710 / P__–__ **SP1710 / S__–__**

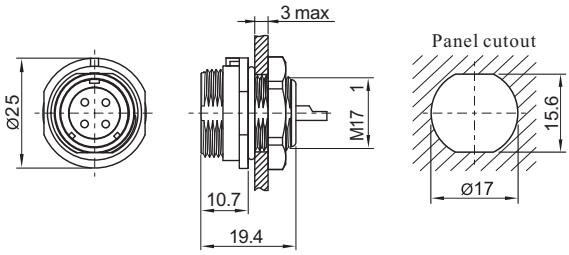
- Male contact
- 1: solder, 3: crimp
- Number of contact
- Female contact

In-line cable connector C
Mate with SP1710



SP1711C / P__–__ **SP1711C / S__–__**

Rear-nut mount
Mate with SP1710



SP1712 / P__–__ **SP1712 / S__–__**

Solder contact spec

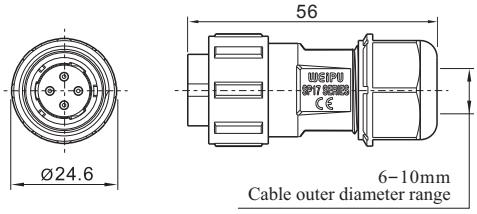
★Crimp contact spec see P22

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 (mm²/AWG)	≤2/14	≤2/14	≤0.75/18	≤2/14	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18

SP17 Series

NEW

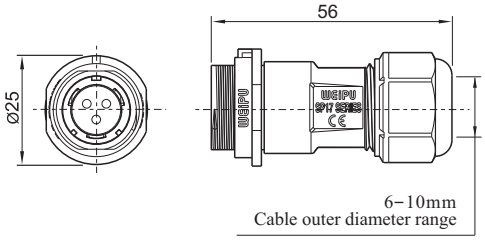
Plug with horizontal mount screw
Mate with SP1711, SP1712



SP1710 / P__–9 **SP1710 / S__–9**

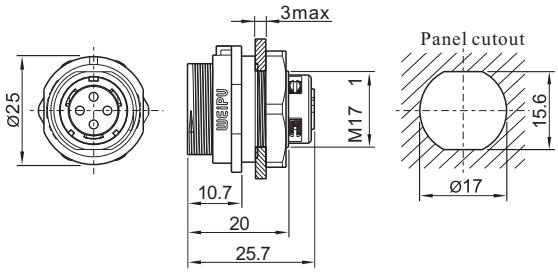
- Male contact
- Number of contact
- Female contact

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**

Allen Key size: 1.3

Screw 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 (mm²/AWG)	Min:0 .75/18 Max:2 /14	Min:0 .75/18 Max:2 /14	Min:0 .75/18 Max:2 /14

SP21 Series

SP2110 / P__ __-__ **SP2110 / S__ __-__**

Male contact

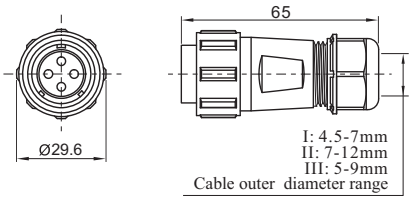
Female contact

Number of contact

Cable outer diameter range
I: 4.5-7mm, II: 7-12mm , III: 5-9mm

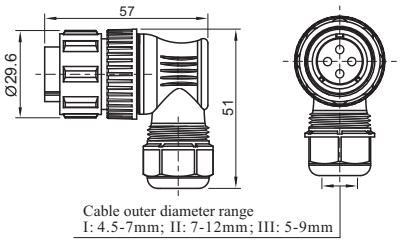
1: solder, 2: screw, 3: crimp

Cable connector
Mate with SP2111, SP2111C, SP2112, SP2113, SP2115,



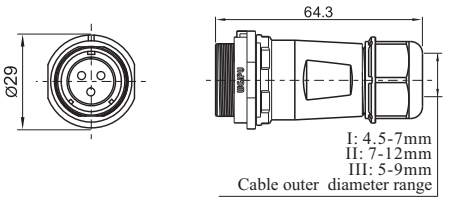
SP2116 / P__ __-__ **SP2116 / S__ __-__**

Angled cable connector
Mate with SP2111, SP2111C, SP2112, SP2113, SP2115,



SP2111C / P__ __-__ **SP2111C/ S__ __-__**

In-line cable connector C
Mate with SP2110, SP2116

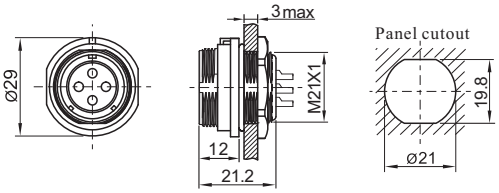


SP2112 / P__-__ **SP2112 / S__-__**

Number of contact

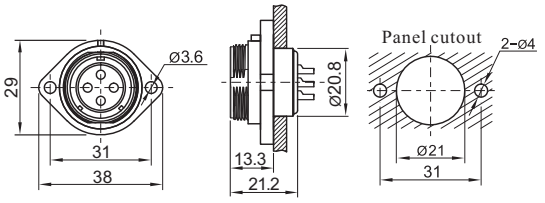
1:solder, 2:screw, 3:crimp

Rear-nut mount
Mate with SP2110, SP2116



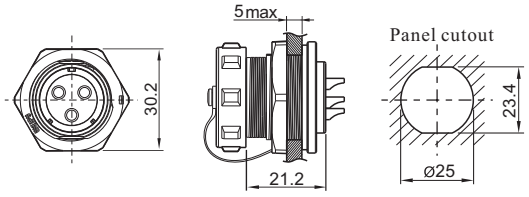
SP2113 / P__-__ **SP2113 / S__-__**

2-hole flange
Mate with SP2110, SP2116



SP2115 / P__-__ **SP2115 / S__-__**

Front-nut mount
Mate with SP2110, SP2116



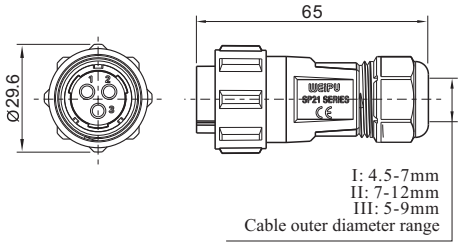
Solder contact spec

★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	⩽2/14	⩽4/12 ⩽0.75/18	⩽4/12 ⩽0.75/18	⩽2/14	⩽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	/	/	/	/	/	/	/	/	/

NEW

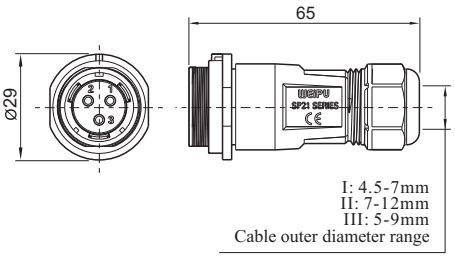
Plug with horizontal mount screw
Mate with SP2111, SP2112



SP2110 / P_ _ −9 **SP2110 / S_ _ −9**

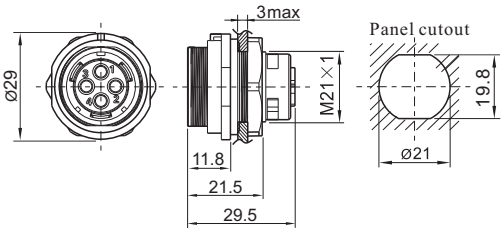
- Male contact
- Female contact
- Number of contact
- Cable outer diameter range I: 4.5-7mm, II: 7-12mm, III: 5-9mm

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

Allen Key size: 1.5

Screw 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

SP2110 / P__ __ SP2110 / S__ __

Male contact

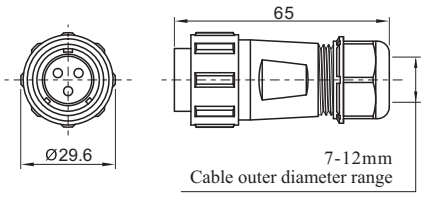
Female contact

(U): , (CU):

Colour: All black

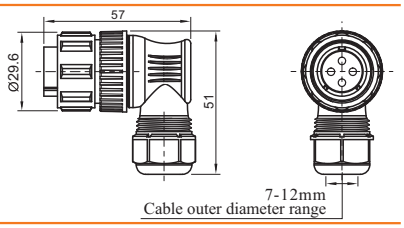
Number of contact

Cable connector
Mate with SP2111, SP2112, SP2113, Sp2115



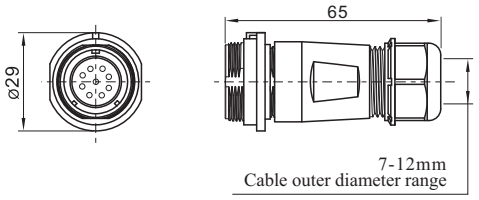
SP2116 / P__ __ SP2116 / S__ __

Angled cable connector
Mate with SP2111, SP2112, SP2113, SP2115



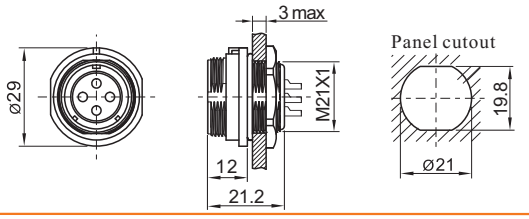
SP2111 / P__ __ SP2111 / S__ __

In-line cable connector
Mate with SP2110, SP2116



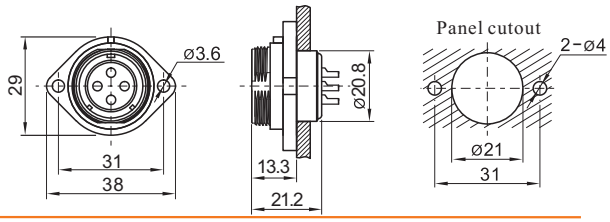
SP2112 / P__ __ SP2112 / S__ __

Rear-nut mount
Mate with SP2110, SP2116



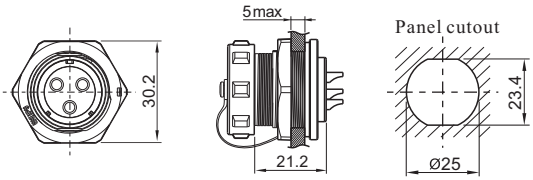
SP2113 / P__ __ SP2113 / S__ __

2-hole flange
Mate with SP2110, SP2116



SP2115 / P__-__ SP2115 / S__-__

Front-nut mount
Mate with SP2110, SP2116



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 / 25	30 / 25	30 / 25	30 / 25	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	solder	solder	solder	solder	solder	solder	solder	solder	solder	solder	solder	solder
Wire size for solder (mm^2 / AWG)	12	12	12	12	12/18	14	12/18	12/18	14	16	18	18	18

SP25 Series

NEW

SP 25

SP2510 / P__ __-__ SP2510 / S__ __-__

Male contact

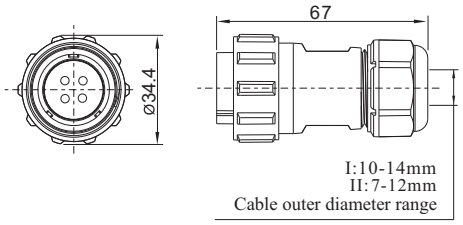
1:solder, 2:screw, 3:crimp

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

Number of contact

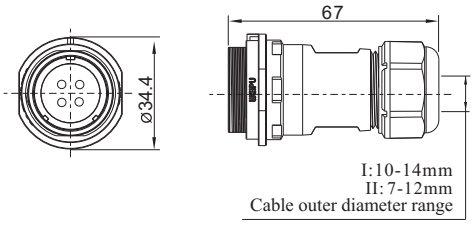
Female contact

Cable connector
Mate with SP2511, SP2511C, SP2512, SP2513



SP2511C / P__ __-__ SP2511C / S__ __-__

In-line cable connector C
Mate with SP2510

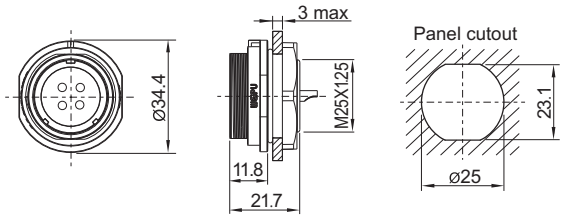


SP2512 / P__-__ SP2512 / S__-__

1:solder, 2:screw, 3:crimp

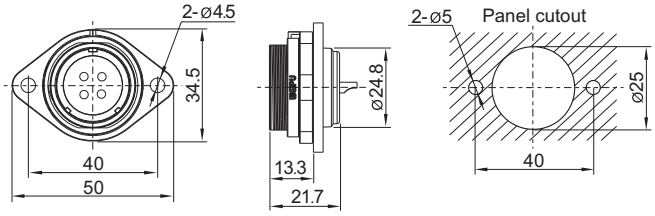
Number of contact

Rear-nut mount
Mate with SP2510



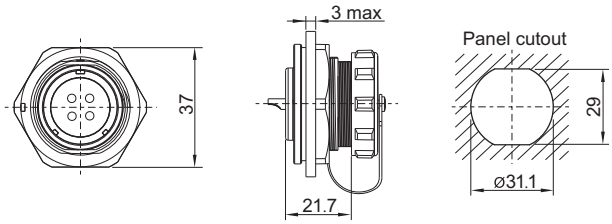
SP2513 / P__-__ SP2513 / S__-__

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

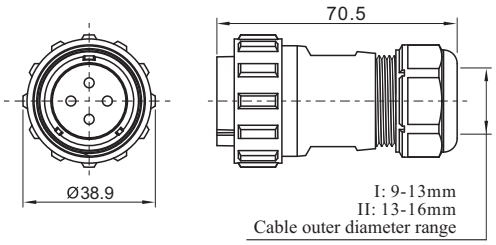
Number of contact	2	3	4	9	10	12	12B	19
Male contact face view								
Rated current (A)	25	25	25	5 25	10	10	5 30	5
Contact diameter(mm)	ø2.5X2	ø2.5X3	ø2.5X4	Ø1X5 ø2.5X4	ø1.5X10	ø1.5X12	Ø1X9 Ø3X3	Ø1X19
Rated voltage (AC.V)	500	500	500	500	500	500	500	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	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 (mm²/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
(mm²/AWG) 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	/	/	/	/	/

SP 29

Cable connector
Mate with SP2911, SP2911C, SP2912, SP2913

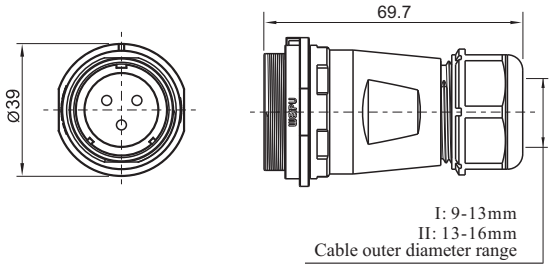
SP2910 / P__ __-__ **SP2910 / S__ __-__**

- 1:solder, 2:screw, 3:crimp
- Cable outer diameter range I: 9-13mm II: 13-16mm
- Number of contact
- Female contact
- Male contact



In-line cable connector C
Mate with SP2910

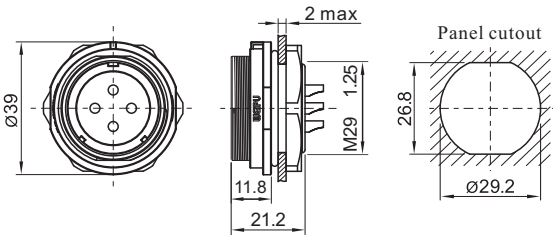
SP2911C / P__ __-__ **SP2911C / S__ __-__**



Rear-nut mount
Mate with SP2910

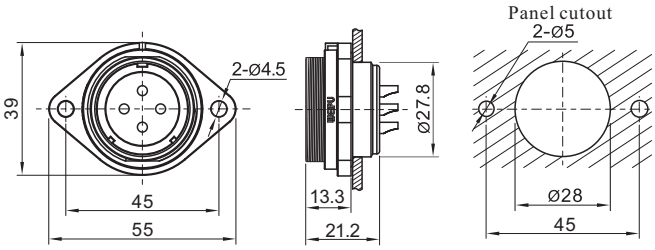
SP2912 / P__-__ **SP2912 / S__-__**

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



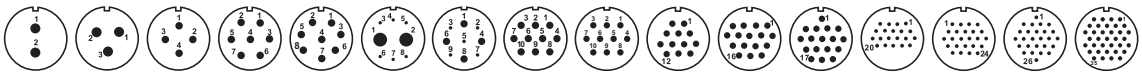
2-hole flange
Mate with SP2910

SP2913 / P__-__ **SP2913 / S__-__**

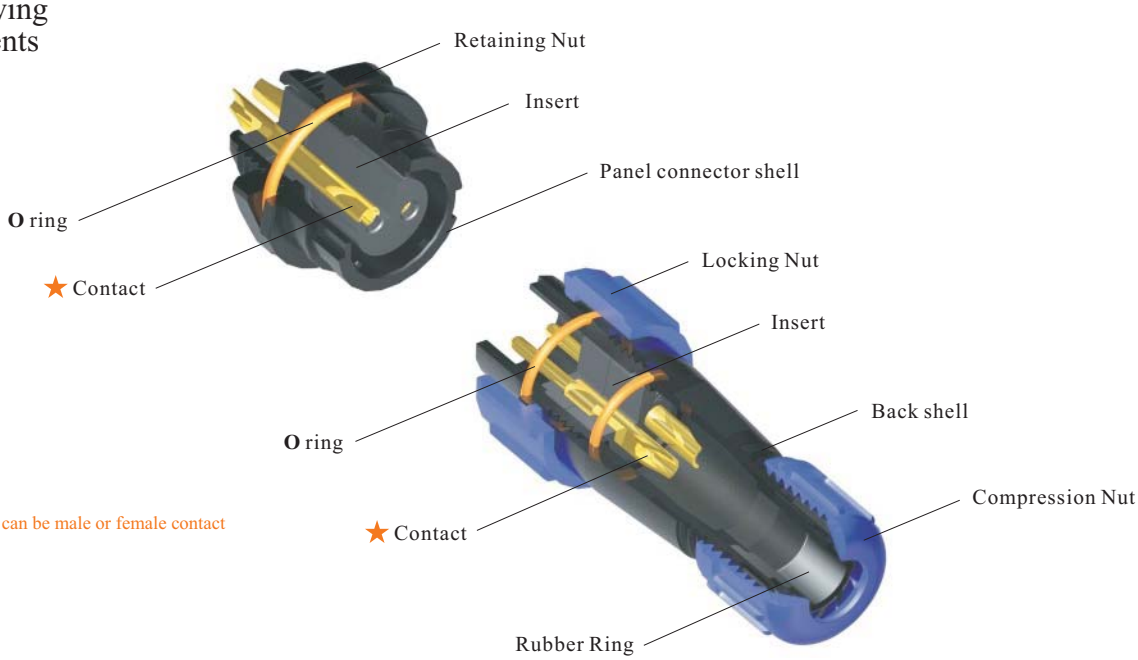


Solder contact spec

★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 (mm²/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
(mm²/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	/	/	/	/	/	/	/	/

Part Section Showing Internal Components



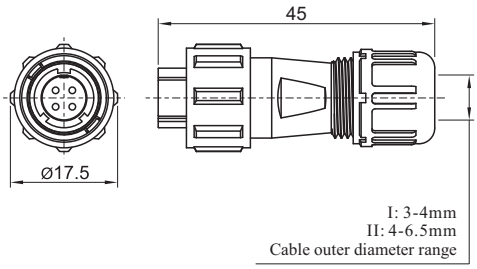
★ Each side can be male or female contact

Material and spec

Coupling	Bayonet
Shell material	PC, Nylon66, fire resistance: V−0
Insert material	PPS, max temperature 260 ℃ Date: PBT, PVC
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:9-13mm, II:13-16mm
IP rating	IP67 (mated)
Mating cycle	500
Temperature range	-40℃～+85℃； Signal、Date: -20℃～+70℃
Insulation resistance	2000 MΩ
Transmission Speed	Cat 5: 100Mbps, cat 6: 100-1000Mbps

SY11 Series

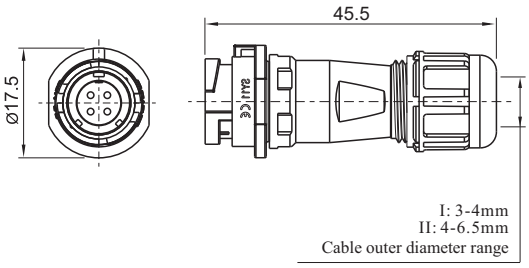
Cable connector
Mate with SY1111,
SY1111C, SY1112



SY1110 / P_ _ **SY1110 / S_ _**

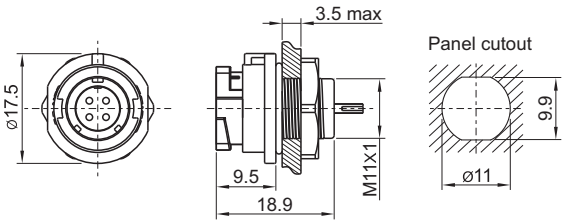
- Male contact
- Female contact
- Number of contact
- Cable outer diameter range I: 3-4mm, II: 4-6.5mm

In-line cable connector C
Mate with SY1110



SY1111C/ P_ _ **SY1111C/ S_ _**

Rear-nut mount
Mate with SY1110



SY1112 / P_ **SY1112 / S_**

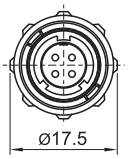
- Number of contact

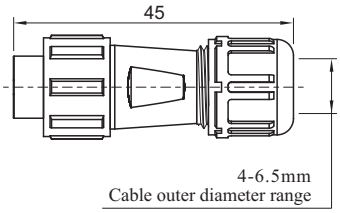
Solder contact spec

Number of contact	2	3	4	5
Male contact face view				
Rated current (A)	5	5	3	3
Contact diameter(mm)	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 (mm²/AWG)	⩽0.75/18	⩽0.75/18	⩽0.5/20	⩽0.5/20

SY11 Series

Cable connector
Mate with SY1111, SY1112

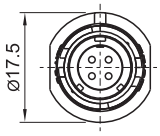


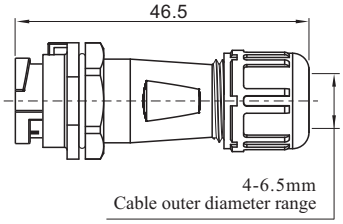


SY1110/P__ __ **SY1110/S__ __**

- Male contact
- (CU): c UL us
- Colour: All black
- Number of contact
- Female contact

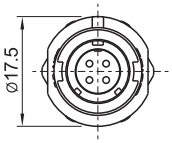
In-line cable connector
Mate with SY1110

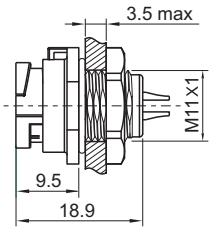


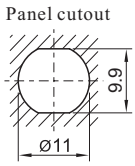


SY1111/P__ __ **SY1111/S__ __**

Rear-nut mount
Mate with SY1110







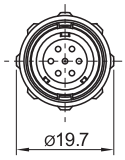
SY1112/P__ __ **SY1112/S__ __**

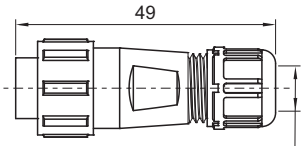
Solder contact spec

Number of contact	4	5
Male contact face view		
Rated current (A)	3	3
Contact diameter(mm)	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

SY13 Series

Cable connector
Mate with SY1311,
SY1311C, SY1312



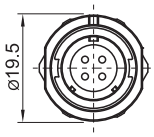


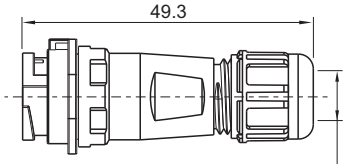
I: 4-6.5mm
II: 5-8mm
Cable outer diameter range

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

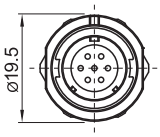


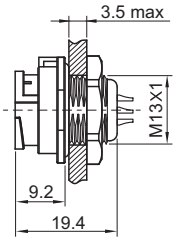


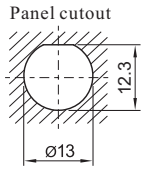
I: 4-6.5mm
II: 5-8mm
Cable outer diameter range

SY1311C / P_ _ **SY1311C / S_ _**

Rear-nut mount
Mate with SY1310







SY1312 / P_ **SY1312 / S_**

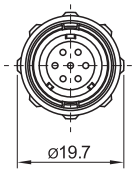
- 芯数 Number of contact

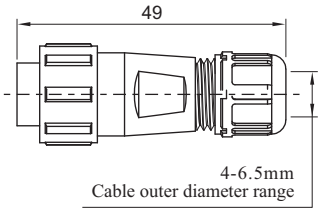
Solder contact spec

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)	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18	≤0.5/20

SY13 Series

Cable connector
Mate with SY1311, SY1312



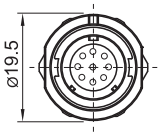


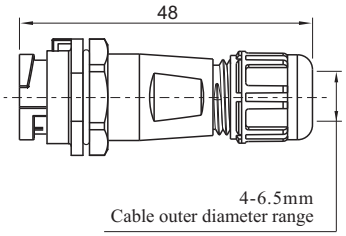
SY1310 / P_ _ — Male contact

SY1310 / S_ _ — Number of contact; Female contact

(CU): Colour: All black

In-line cable connector
Mate with SY1310

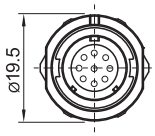


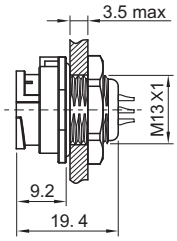


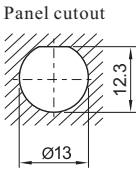
SY1311 / P_ _

SY1311 / S_ _

Rear-nut mount
Mate with SY1310







SY1312 / P_ _

SY1312 / S_ _ — Number of contact

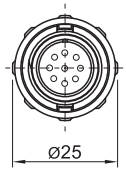
(CU):

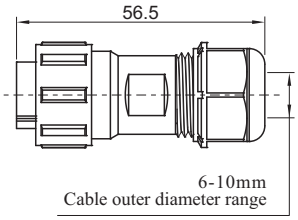
Solder contact spec

Number of contact	9
Male contact face view	
Rated current (A)	3
Contact diameter (mm)	Ø0.7X9
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

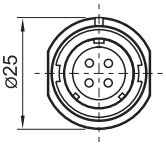


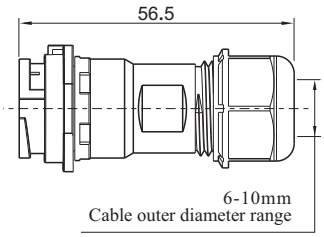


SY1710 / P__-__ **SY1710 / S__-__**

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

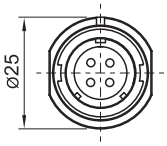
In-line cable connector C
Mate with SY1710

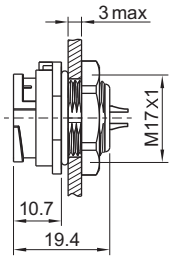


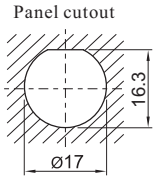


SY1711C / P__-__ **SY1711C / S__-__**

Rear-nut mount
Mate with SY1710



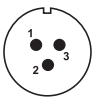
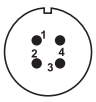
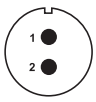
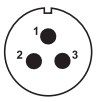
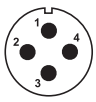
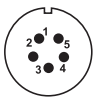
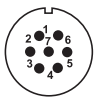
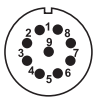
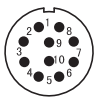




SY1712 / P__-__ **SY1712 / S__-__**

Solder contact spec

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

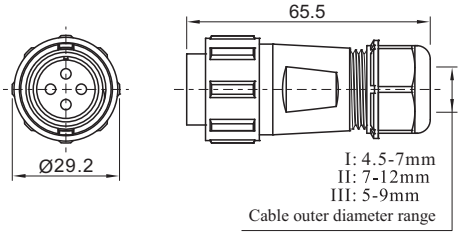
Number of contact	2	3	4	2B	3B	4B	5	7	9	10
Male contact face view										
Rated current (A)	10	10	5	15	15	15	5	5	5	5
Contact diameter(mm)	ø1.5X2	ø1.5X3	ø1X4	ø2X2	ø2X3	ø2X4	ø1X5	ø1X7	ø1X9	ø1X10
Rated voltage (AC.V)	500	500	500	500	500	500	500	400	400	400
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	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 (mm²/AWG)	≤2/14	≤2/14	≤0.75/18	≤2/14	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18

SY21 Series

SY2110 / P__ __-__ SY2110 / S__ __-__

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

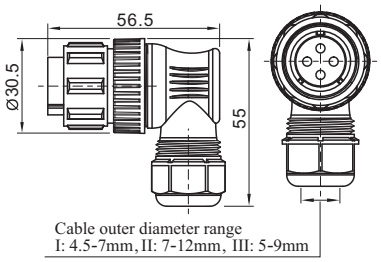
Cable connector
Mate with SY2111, SY2111C, SY2112, SY2113



SY2116 / P__ __-__ SY2116 / S__ __-__

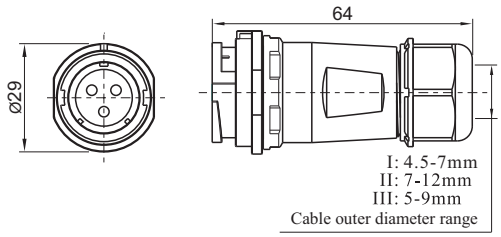
- Number of contact
- 1: solder, 2: screw, 3: crimp
- Cable outer diameter range I: 4.5-7mm, II: 7-12mm, III: 5-9mm

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



SY2111C / P__-__ SY2111C / S__-__

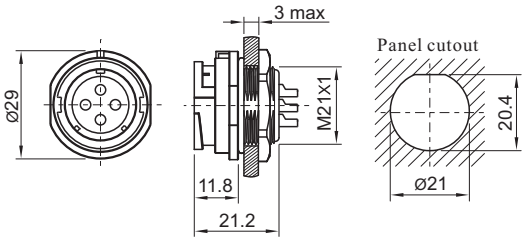
In-line cable connector C
Mate with SY2110, SY2116



SY2112 / P__-__ SY2112 / S__-__

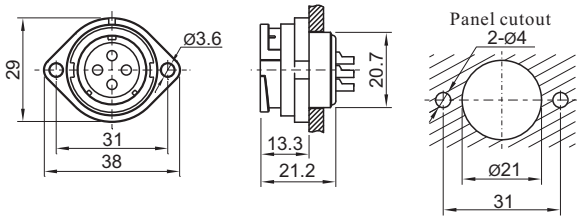
- Number of contact
- 1:solder, 2: screw, 3: crimp

Rear-nut mount
Mate with SY2110, SY2116



SY2113 / P__-__ SY2113 / S__-__

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	≤2/14	≤4/12 ≤0.75/18	≤4/12 ≤0.75/18	≤2/14	≤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	/	/	/	/	/	/	/	/	/

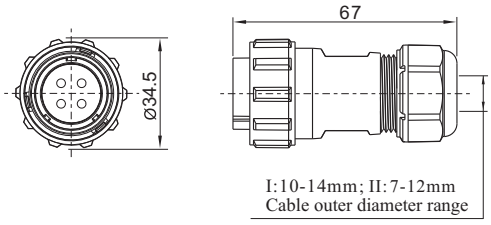
SY25 Series

NEW

SY2510/P__ __-__ **SY2510/S__ __-__**

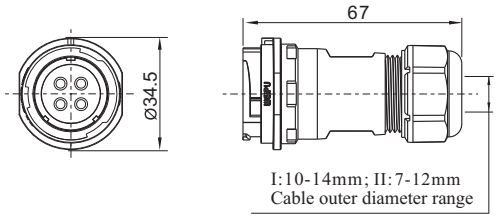
Male contact
Female contact
Number of contact
1: solder, 2: screw, 3: crimp
Cable outer diameter range
I: 10-14mm

Cable connector
Mate with SY2511, SY2511C, SY2512, SY2513



SY2511C / P__-__ **SY2511C / S__-__**

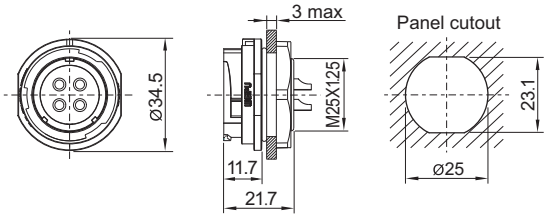
In-line cable connector C
Mate with SY2510



SY2512 / P__-__ **SY2512 / S__-__**

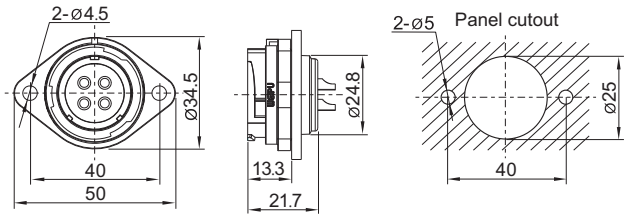
Number of contact
1:solder, 2: screw, 3: crimp

Rear-nut mount
Mate with SY2510



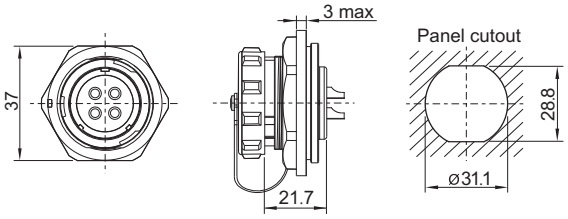
SY2513 / P__-__ **SY2513 / S__-__**

2-hole flange
Mate with SY2510



SY2515 / P__-__ **SY2515 / S__-__**

Front-nut mount
Mate with SY2510



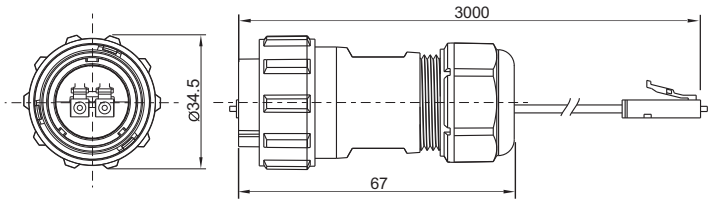
Solder contact spec

★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 (mm²/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
(mm²/AWG) 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	/	/	/	/	/

NEW

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

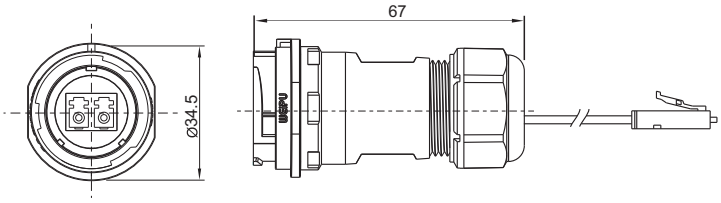


SY2510/PLC-__

Cable length:
1.0 m
3.0 m
5.0 m

★ Cable length can be customized

Rreceptacle with LC adapter C
Mate with SY2510

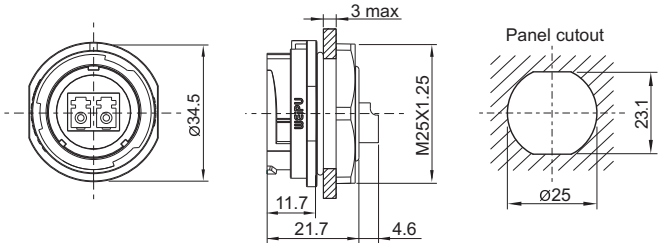


SY2511C/SLC -__

Cable length:
1.0 m
3.0 m
5.0 m

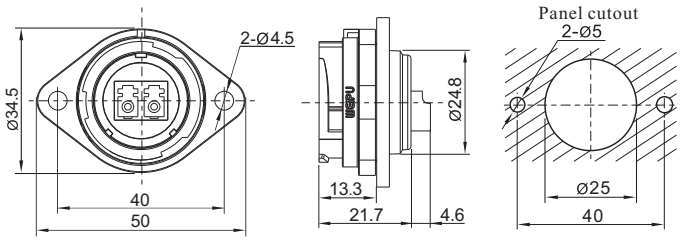
★ Cable length can be customized

Rear-nut mount receptacle
with LC adapter
Mate with SY2510



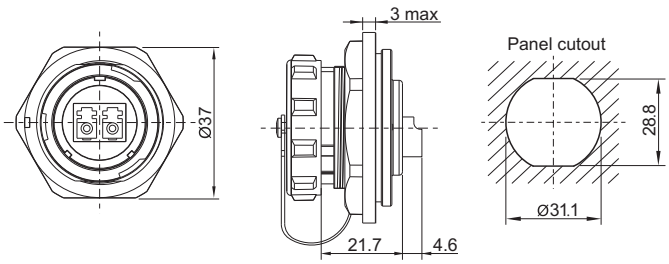
SY2512/SLC

2-hole flange
with LC adapter
Mate with SY2510



SY2513/SLC

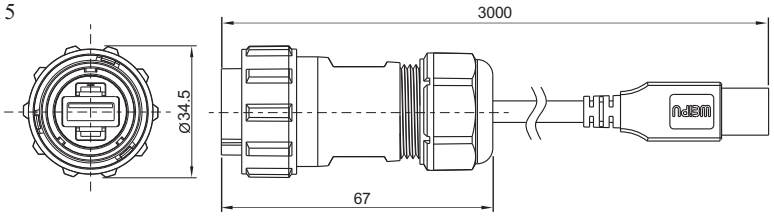
Front-nut mount
with LC adapter
Mate with SY2510



SY2515/SLC

NEW

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

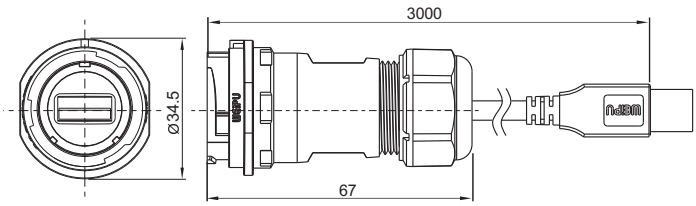


SY2510/PUSB3.0-__

Cable length:
1.0 m
3.0 m

★ Cable length can be customized

Rreceptacle with USB3.0 adapter C
Mate with SY2510

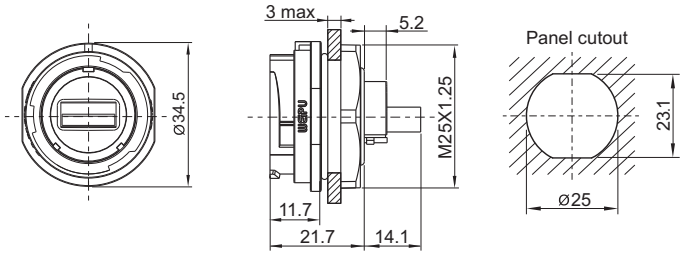


SY2511C/SUSB3.0-__

Cable length:
1.0 m
3.0 m

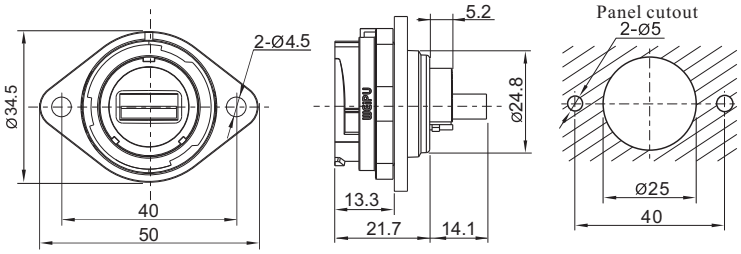
★ Cable length can be customized

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



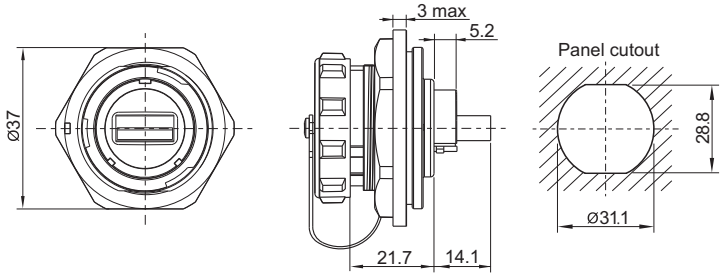
SY2512/SUSB3.0

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



SY2513/SUSB3.0

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

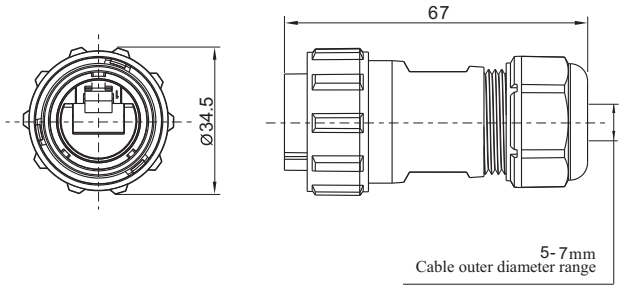


SY2515/SUSB3.0

NEW

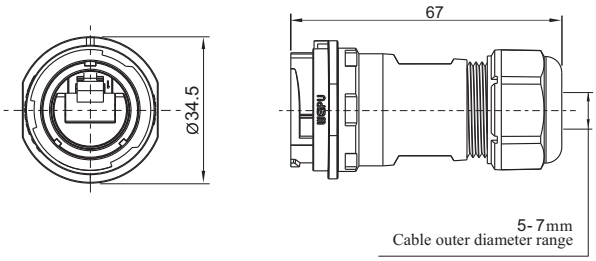
Plug with RJ45 adapter
Mate with SY2511, SY2511C,
SY2512, SY2513, SY2515

SY2510/PRJ45



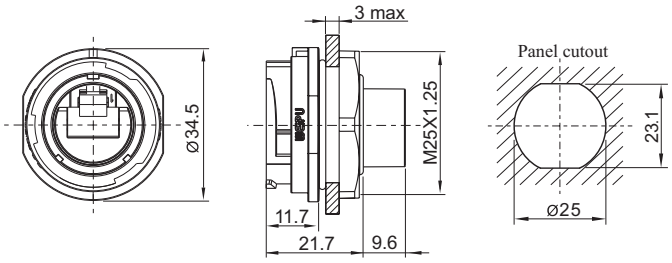
Rreceptacle with RJ45 adapter C
Mate with SY2510

SY2511C/SRJ45
- Standard: Cat 5
- -C6: Cat6



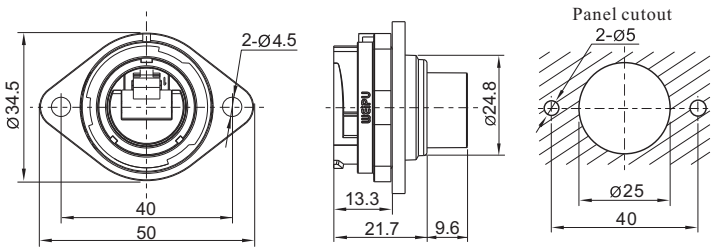
Rear-nut mount receptacle
with RJ45 adapter
Mate with SY2510

SY2512/SRJ45
- Standard: Cat 5
- -C6: Cat6



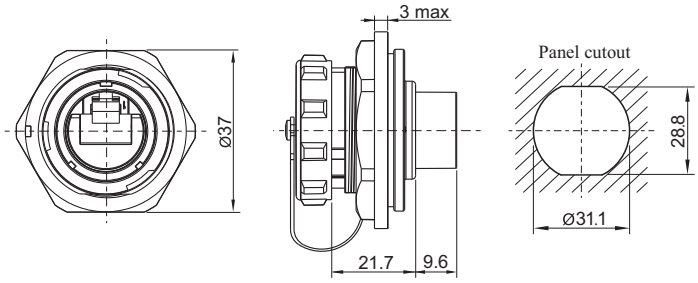
2-hole flange
with RJ45 adapter
Mate with SY2510

SY2513/SRJ45
- Standard: Cat 5
- -C6: Cat6



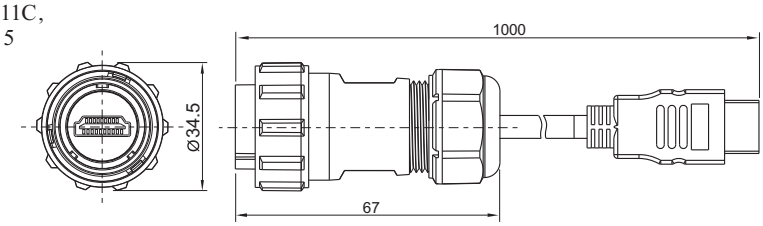
Front-nut mount
with RJ45 adapter
Mate with SY2510

SY2515/SRJ45
- Standard: Cat 5
- -C6: Cat6



NEW

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

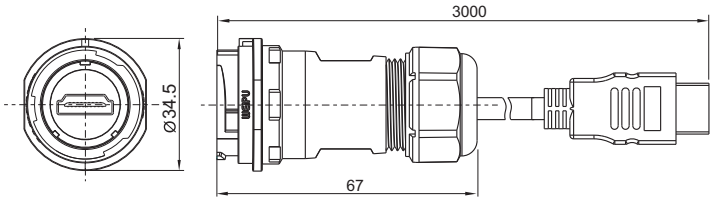


SY2510/PHDMI2.0-__

Cable length:
1.0 m
3.0 m

★ Cable length can be customized

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

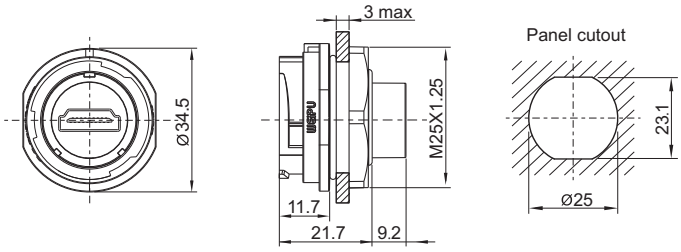


SY2511C/SHDMI2.0-__

Cable length:
1.0 m
3.0 m

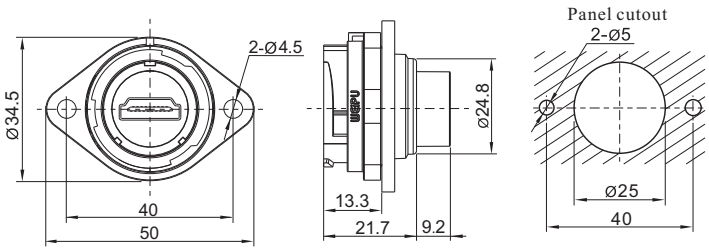
★ Cable length can be customized

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



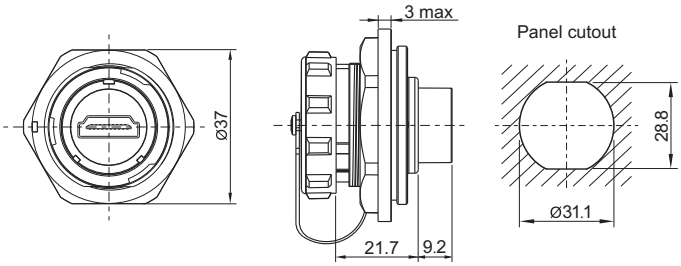
SY2512/SHDMI2.0

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



SY2513/SHDMI2.0

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

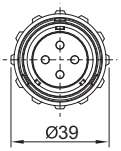


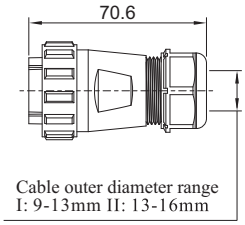
SY2515/SHDMI2.0

Cable connector
Mate with SY2911, SY2911C, SY2912, SY2913

SY2910 / P__ __-__ **SY2910 / S__ __-__**

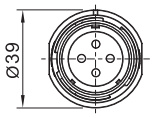
- Male contact
- Female contact
- Number of contact
- 1: solder, 2: screw, 3: crimp
- I: 9-13mm II: 13-16mm Cable outer diameter range

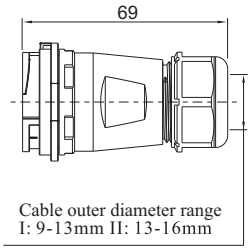




In-line cable connector C
Mate with SY2910

SY2911C/P__ __-__ **SY2911C/S__ __-__**

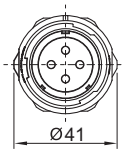


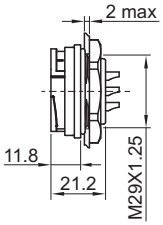


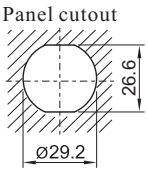
Rear-nut mount
Mate with SY2910

SY2912 / P__-__ **SY2912 / S__-__**

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

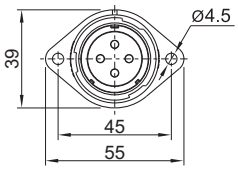


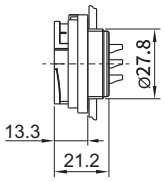


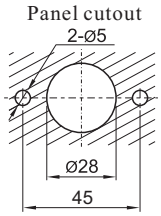


2-hole flange
Mate with SY2910

SY2913 / P__-__ **SY2913 / S__-__**

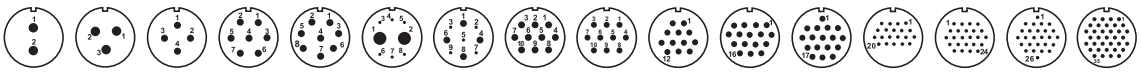






Solder contact spec

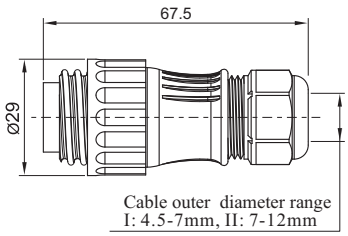
★Crimp contact spec see P22 ★Screw contact spec see P23

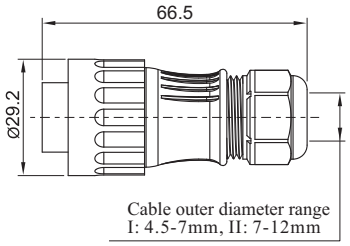
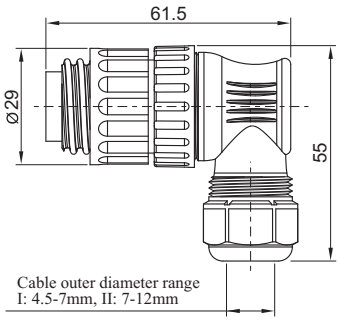
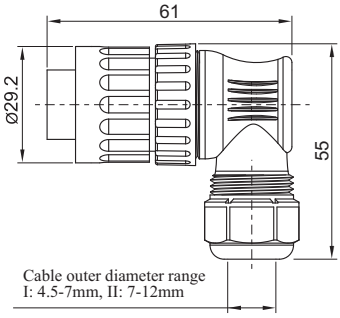
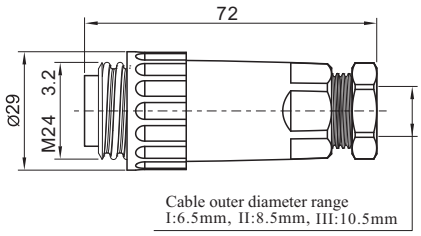
Number of contact	2	3	4	7	8	8B	9	10	10B	12	16	17	20	24	26	35
Male contact face view																
Rated current (A)	50	50	25	25	25	60、5	25、5	25	10	10	10	10	5	5	5	5
Contact diameter(mm)	Ø3.5X2	Ø3.5X3	Ø2.5X4	Ø2.5X7	Ø2.5X8	Ø5X2 Ø1X6	Ø2.5X4 Ø1X5	Ø2.5X10	Ø1.5X10	Ø1.5X12	Ø1.5X16	Ø1.5X17	Ø1X20	Ø1X24	Ø1X26	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 (mm²/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
(mm²/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	/	/	/	/	/	/	/	/

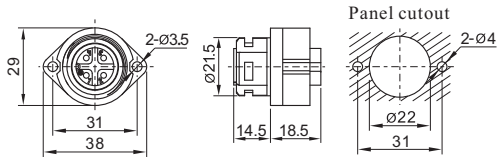
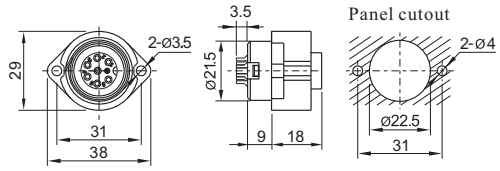
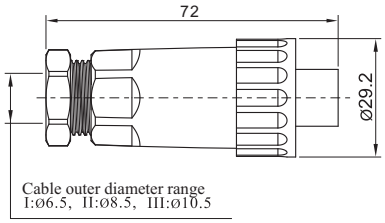
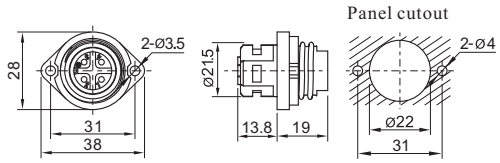
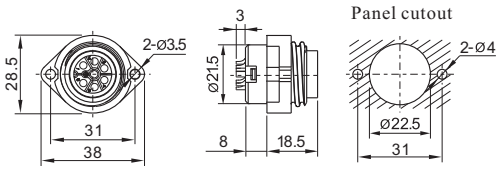
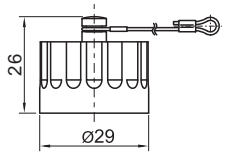
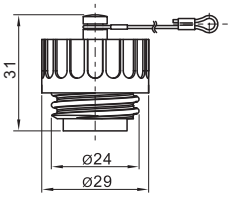
WEIPU
SP29 SERIES
WEIPU
SP21 SERIES
WEIPU
SP29 SERIES
WEIPU
WP17 SERIES

WA22 Series IP67

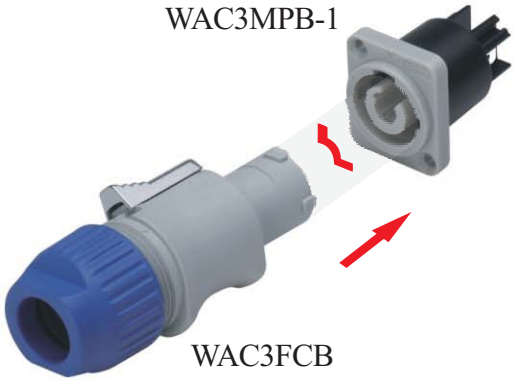
Material and spec		
Number of contact	3+PE	6+PE
Contact diameter (mm)	ø2	ø1.5
Rated voltage (AC.V)	400	250
Rated current (A)	16	10
Wire size (mm²/AWG)	Min: 0.75/18 Max: 2.5/14	≤0.75/18
Termination	Screw	Solder
Test voltage(AC.V)1min	2000	
Insulation resistance (MΩ)	2000	
Shell material	Nylon66, fire 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	
WA22J7TK1	6+PE male cable connector with short back shell, solder termination	

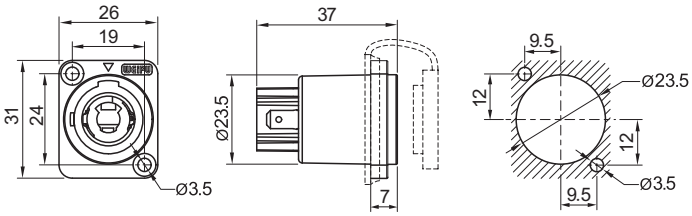
Part number	Description	Drawing
WA22K4TK2	3+PE female cable connector with short back shell, screw termination	
WA22K7TK1	6+PE female cable connector with short back shell, solder termination	
WA22J4TL2	3+PE male cable connector with angled back shell, screw termination	
WA22J7TL1	6+PE male cable connector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

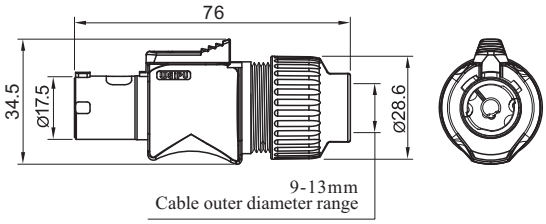
WAC3 Series



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, Rceptacle: 3/16" flat tab terminals

IP65

WAC3 Series

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.

Part number system

RJ45F □ □

Series code

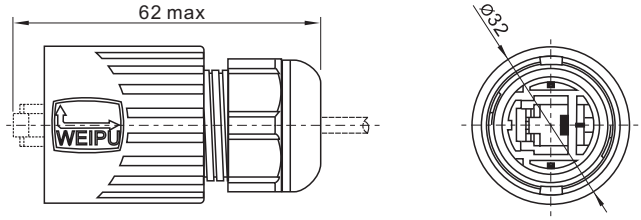
Connector type: 6: Plug
7: Receptacle

1: RJ45F Receptacle
1RA: Angled Receptacle

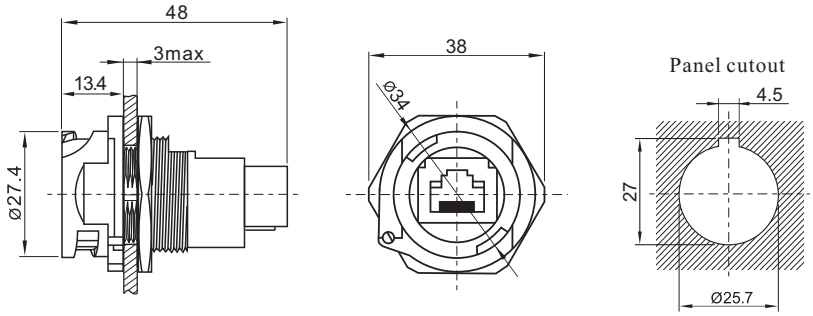
Material and spec

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℃~+85℃
Transmission Speed	100−1000Mbps

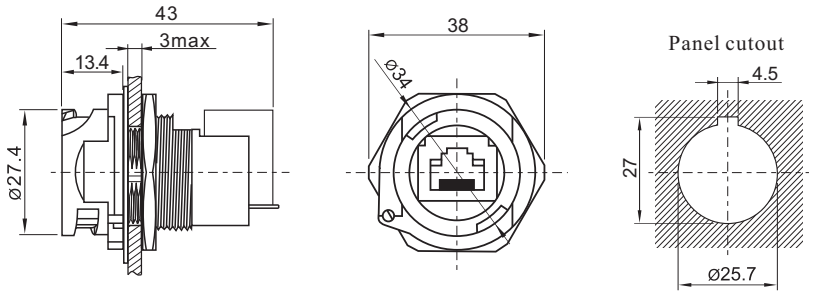
- RJ45F plug: RJ45F6 — Cable outer diameter I: 5-6mm, II: 6-7mm



- RJ45F Receptacle: RJ45F71



- Angled Receptacle: RJ45F71RA



WP Series

Part number system

WP 20 ☐ ☐ ☐ ☐ ☐ ☐

Series code

Panel cutout diameter

Contact gender: J: Male contact
K: Female contact

Number of solder contact:
2, 3, 4, 5, 6, 7, 8, 9, 12, 15
Number of crimp contact:
1, 2, 3, 4, 5, 7, 8

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

Termination type:
1: Solder
2: Screw (Ø3mm contact)
3: Crimp

Cable fix type:
O: PVC sleeve
K: Clamping-nut
P: Metal hose

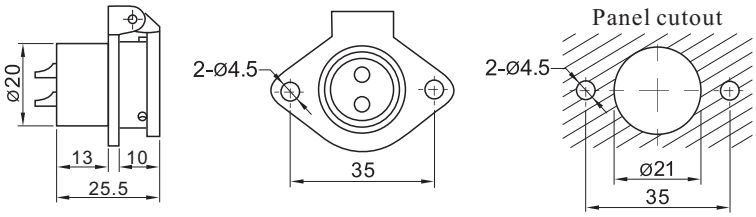
Connector type:
T: Plug
Z: Receptacle

★ Each side can be male or female contact

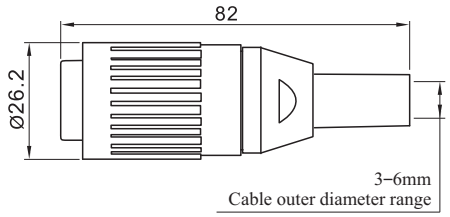
Material and spec

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

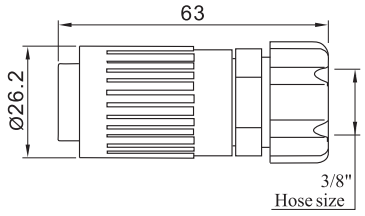
Receptacle: Z IP44



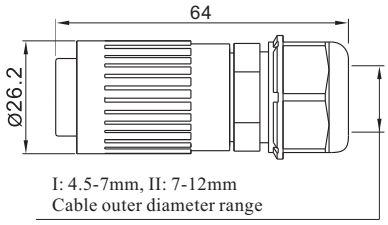
PVC sleeve : TO



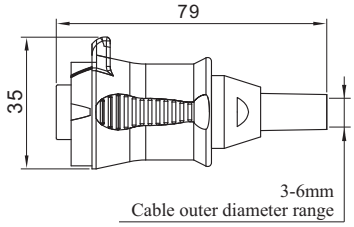
Metal hose: TP



Plastic clamping-nut: TK IP55



Without bayonet: TO-G

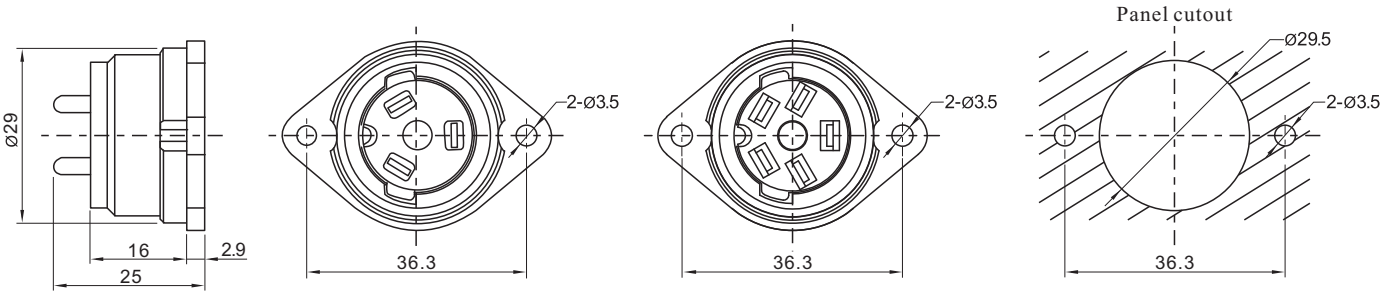


Solder contact spec

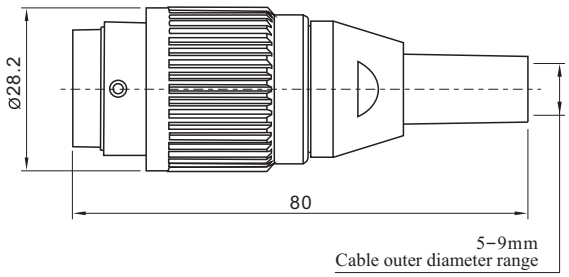
★Crimp contact spec see P22 ★Screw contact spec see P23

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 (mm² / AWG)	≤4/12	≤4/12	≤4/12	≤4/12	≤4/12 ≤0.75/18	≤2/14	≤4/12 ≤0.75/18	≤4/12 ≤0.75/18	≤2/14	≤1.5/16	≤0.75/18	≤0.75/18	≤0.75/18
Wire size for screw termination (mm² / 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



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℃~+85℃
Insulation resistance (mΩ)	2000
Test voltage (AC.V) 1 min	1500
Wire size (mm²/AWG)	2.5 / 16 max
Rated current (A)	10
Rated voltage (AC.V)	400
Contact resistance (mΩ)	2.5

WT29 Series

WL52 Series

Part number system

WL	52					

Series code

Panel hole cutout diamter

Contact gender
J: Male contact
K: Female contact

Number of contact: 19

Connector type:
T: Plug
Z: Receptacle

Colour
B: Black (Standard)
L: Blue
G: Green
O: Orange
P: Purple
R: Red
Y: Yellow
} Special Order

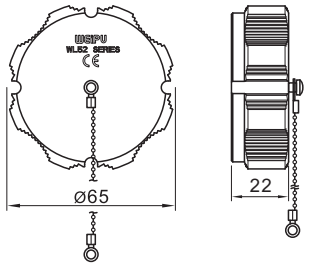
Cable outer diameter range
I: 15–20mm, II: 22–30mm

Plastic hose adapter type
TADI: PG29 plastic-hose adapter
TADII: M40 1.5 plastic-hose adapter

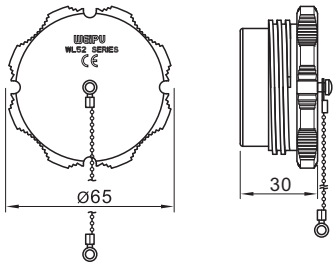
Material and spec

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

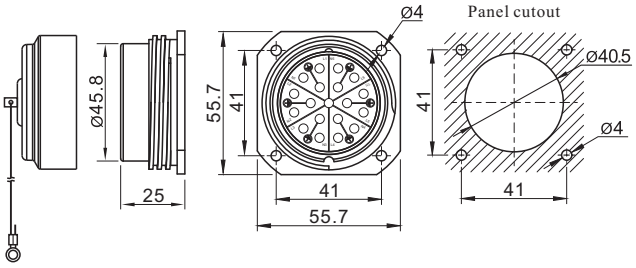
- WL52−GZK IP67
  Aluminium cap for female-contact connector



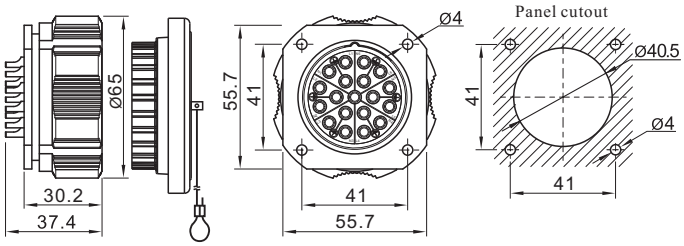
- WL52−GZJ IP67
  Aluminium cap for male-contact connector



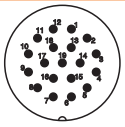
- WL52K19Z IP67
  Square flange female contact receptacle



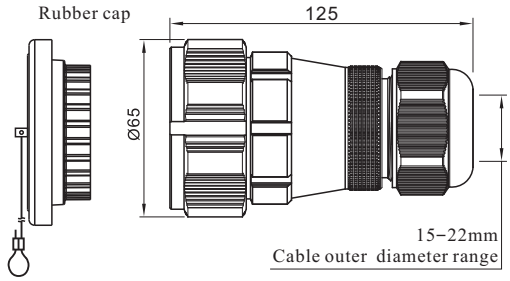
- WL52J19Z IP67
  Square flange male contact receptacle



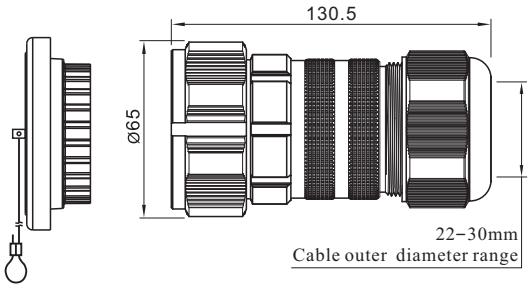
Solder contact spec

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 (mm²/AWG)	⩽6/9

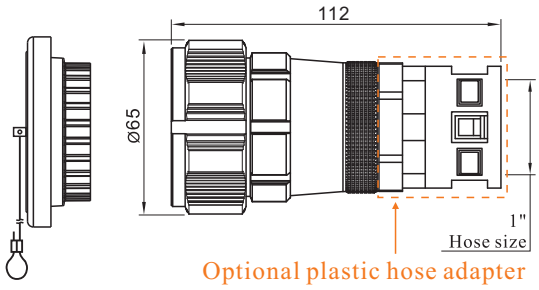
- Male-contact plug with clamping-nut: WL52J19T IP67



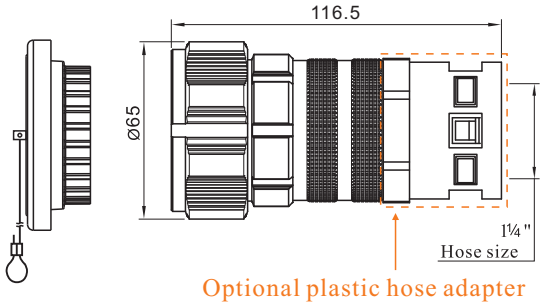
- Male-contact plug with clamping-nut 2: WL52J19TII IP67



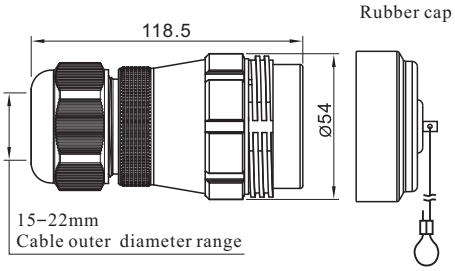
- Male-contact plug for PG29 Plastic hose adapter: WL52J19TAD I IP66



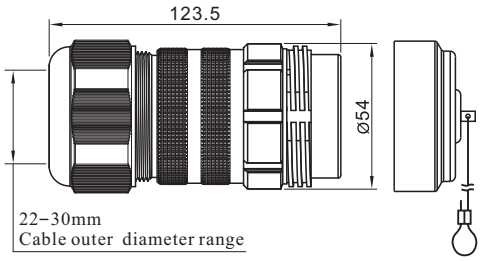
- Male-contact plug for M40 ×1.5 plastic hose adapter: WL52J19TAD II IP66



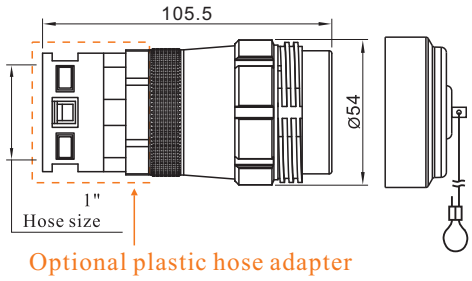
● Female-contact connector with clamping-nut: WL52K19T IP67



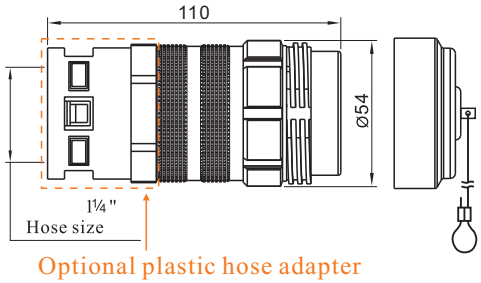
● Female-contact connector with clamping-nut 2: WL52K19TII IP67



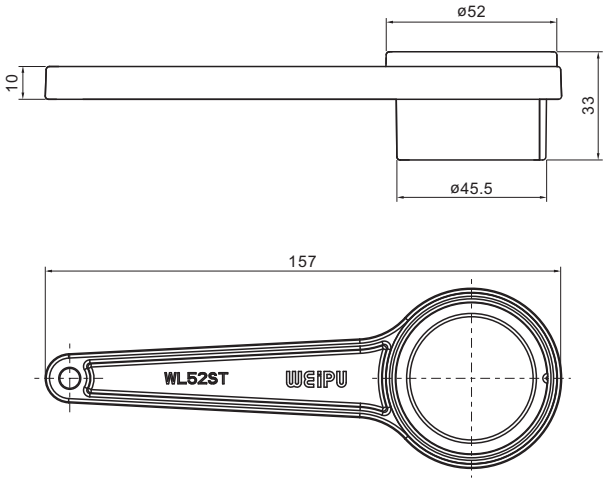
● Female-contact connector for PG29 Plastic hose adapter: WL52K19TAD I IP66



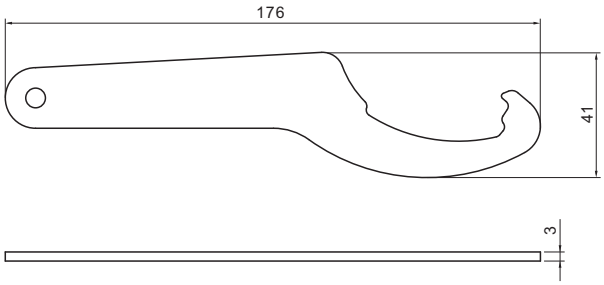
● Female-contact connector for M40 ×1.5 Plastic hose adapter: WL52K19TAD II IP66



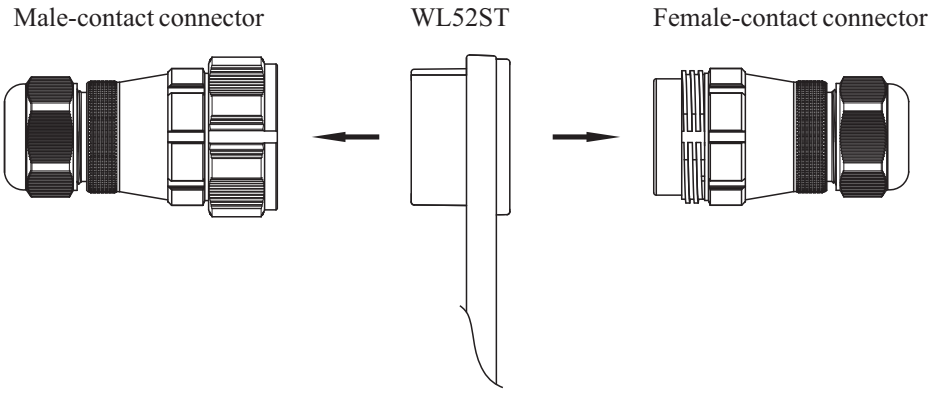
Wrench 1：WL52ST

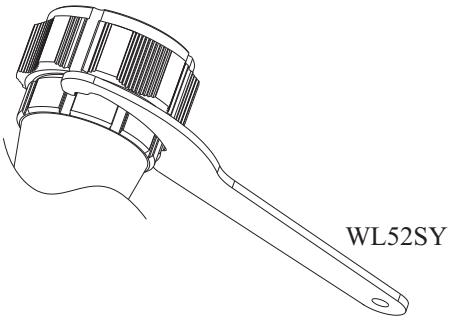


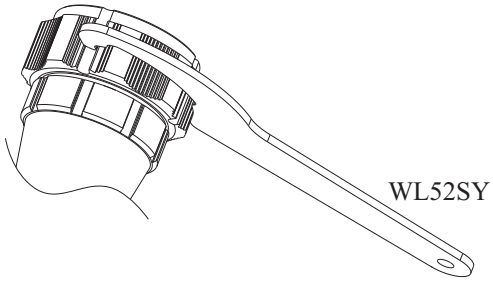
Wrench 2：WL52SY

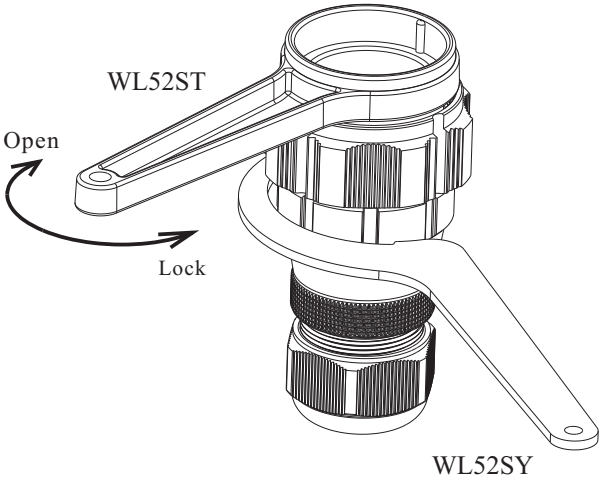


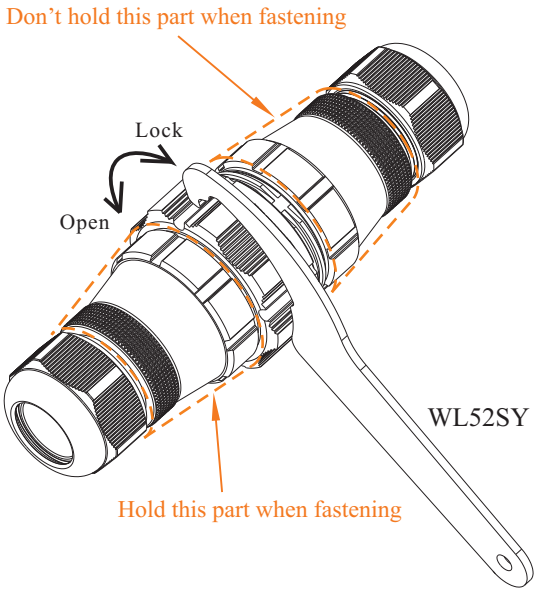
Instruction











WD Series

Part number system

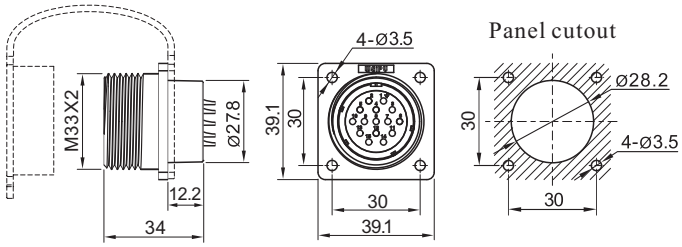
WD 28 ☐ ☐ ☐ ☐

- Series code: WD
- Panel hole cutout diamter: 28
- Contact gender
  - J: Male contact
  - K: Female contact
- Number of contact: 4, 15
- Connector type:
  - T: Plug
  - Z: Receptacle
- Cable fix type:
  - U: Metal clamping-nut
  - V: Rubber sleeve
  - W: Plastic hose

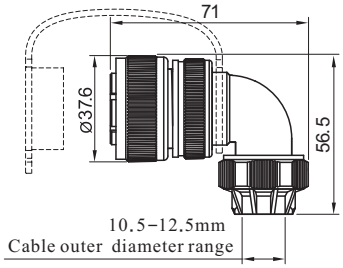
Material and spec

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℃~+85℃
Insulation resistance	2000 mΩ

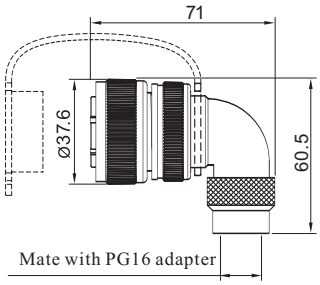
● Receptacle: Z IP65



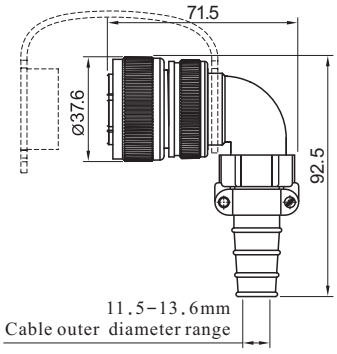
● Cable connector with clamping-nut: TU IP65



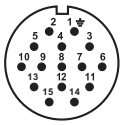
● Cable connector for plastic hose: TW IP55



● 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	ø3.5X3、ø2.5X1	ø1.5 X15
Rated voltage (AC.V)	500	500
Test voltage(AC.V) 1 min	1500	1500
Contact resistance (mΩ)	0.5、1	2.5
Wire size (mm²/AWG)	≤10 / 7、≤4 / 12	≤1.5 / 16

WB Series

Part number system

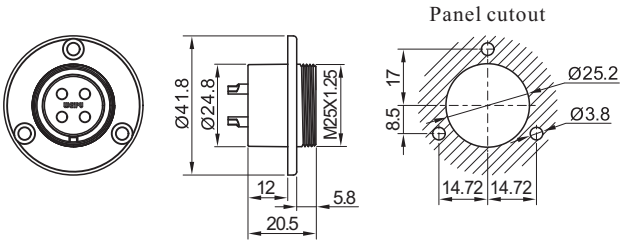
WB 25 ☐ ☐ ☐ ☐

- Series code: WB
- Panel receptacle diameter and panel hole size: 25, 30
- Contact gender
  - J: Male contact
  - K: Female contact
- Number of contact: 4, 7
- Connector type:
  - T: Plug
  - Z: Receptacle
- Cable fix type:
  - P: Metal hose
  - I: Rubber sleeve
  - D: Plastic hose

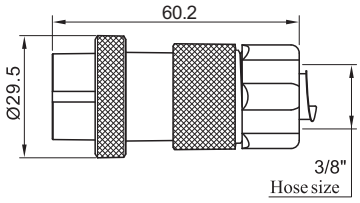
Material and spec

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

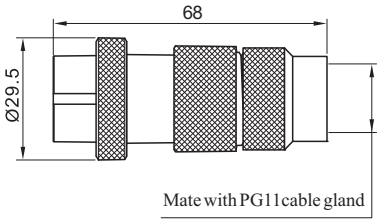
Receptacle: Z



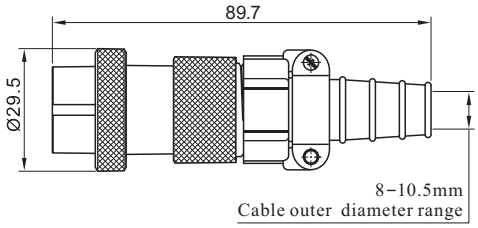
Plug for metal–hose: TP



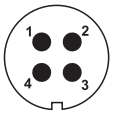
Plug for plastic hose: TD



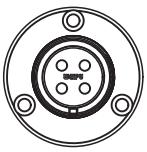
Plug with rubber sleeve: TI

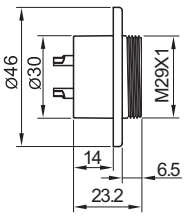


Solder contact spec

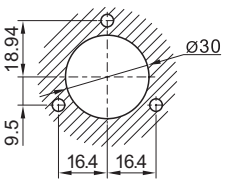
Number of contact	4
Male contact face view	
Rated current (A)	25
Contact diameter	ø2.5X4
Rated voltage (AC.V)	500
Test voltage(AC.V) 1 min	1500
Contact resistance (mΩ)	1
Wire size (mm²/AWG)	⩽4 / 12

Receptacle: Z

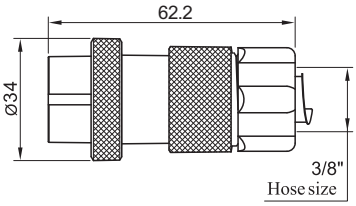




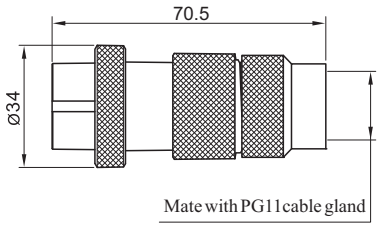
Panel cutout



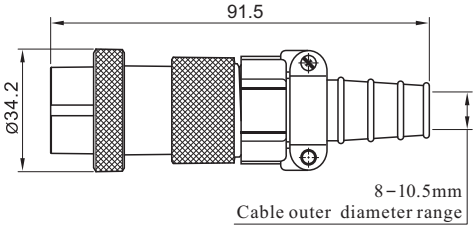
Plug for metal–hose: TP



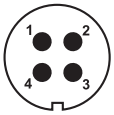
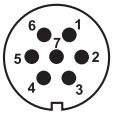
Plug for plastic hose: TD



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 (mm²/AWG)	⩽4 / 12	⩽4 / 12

New Shielding Architecture

WS | WF | WY Series
Engineered for Stability

patent
PRODUCT
SHIELDING

Application Fields:

Industrial Automation, Precision Electronics, Communication & Security, Rail Transit, Aerospace

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: Ø1 , Ø1.5 , Ø2.5 , Ø3.5 , Ø5.5mm Crimp: Ø1, Ø1.5, Ø2.5, Ø3.5, Ø5.5, Ø10mm Screw: Ø2.5, Ø3, Ø3.5mm
Mating cycle	500
Temperature range	-40℃~+85℃

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

WS Series

Part number system

WS □ □ □ □ □

Series code

Panel hole cutout diameter
16、20、24、28、32、40、48、55

Contact gender
Male contact
Female contact

★ Contacts can be male or female

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

Number of screw contact:
2、3、4、5、7、8、9、10、11、12、20

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

Shell structure and cable fix type :

★ Various shell structures; see P17-03 for specifications.

● **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 dacrease rate (%)	0	10	20	30	40	50	60

Shell structure and cable fix type

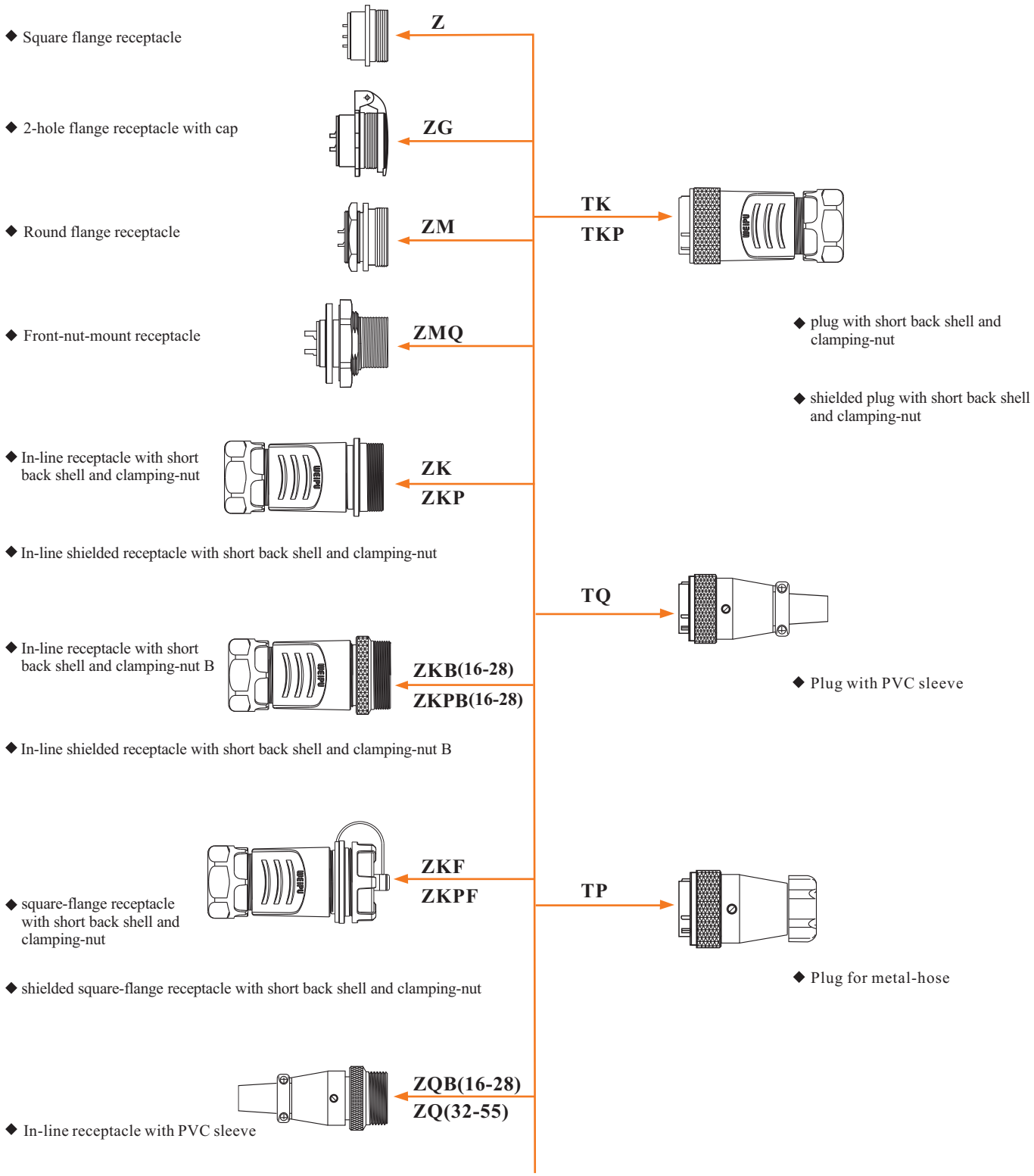
Z: Square flange receptacle
ZG: 2-hole flange receptacle
ZMQ: Round flangel receptacle
ZM: Front-nut-mount receptacle

Straight
ZK: In-line receptacle with short back shell and clamping-nut
ZKP: In-line shielded receptacle with short back shell and clamping-nut
ZKB: In-line receptacle with short back shell and clamping-nut B (for WS16-28)
ZKPB: In-line shielded receptacle with short back shell and clamping-nut B(for WS16-28)
ZKF: square-flange receptacle with short back shell and clamping-nut
ZKPF: shielded square-flange receptacle with short back shell and clamping-nut
TK: plug with short back shell and clamping-nut
TKP: shielded plug with short back shell and clamping-nut
ZQB: Receptacle with PVC sleeve B (for WS16-28)
ZQ: Receptacle with PVC sleeve (for WS32-55)
ZQF: In-line receptacle with PVC sleeve and square flange
TQ: Plug with PVC sleeve
ZPB: Receptacle for metal hose B (for WS16-28)
ZP: Receptacle for metal hose (for WS32-55)
ZPF: In-line receptacle for metal-hose and square flange
TP: Plug for metal hose
ZYB: Receptacle with cable clamping plates B (for WS16-28)
ZY: Receptacle with cable clamping plates (for WS32-55)
ZYF: In-line receptacle with cable clamping plates and square flange
TY: Plug with cable clamping plates
ZHB: In-line receptacle for PA-hose B(for WS16-28)
ZH: In-line receptacle for PA-hose (for WS16-28)
TH: Plug for PA-hose (for WS16-28)
ZDB: Receptacle for plastic hose B (for WS16-28)
ZD: Receptacle for plastic hose (for WS32-55)
ZDF: In-line receptacle for plastic-hose and square flange
TD: Plug for plastic hose
ZXB: In-line receptacle with anti-bending sleeveB (for WS28)
TX: Plug with strain relief (for WS28)

Angled
TL: Plug with angled back shell and clamping-nut
TR/ZR: Plug / receptacle for metal hose(for WS20-55)
TS/ZS: Plug / receptacle with cable clamping plates(for WS20-55)
TC/ZC: Plug / receptacle for plastic hose(for WS20-55)

WS Series Mating diagram

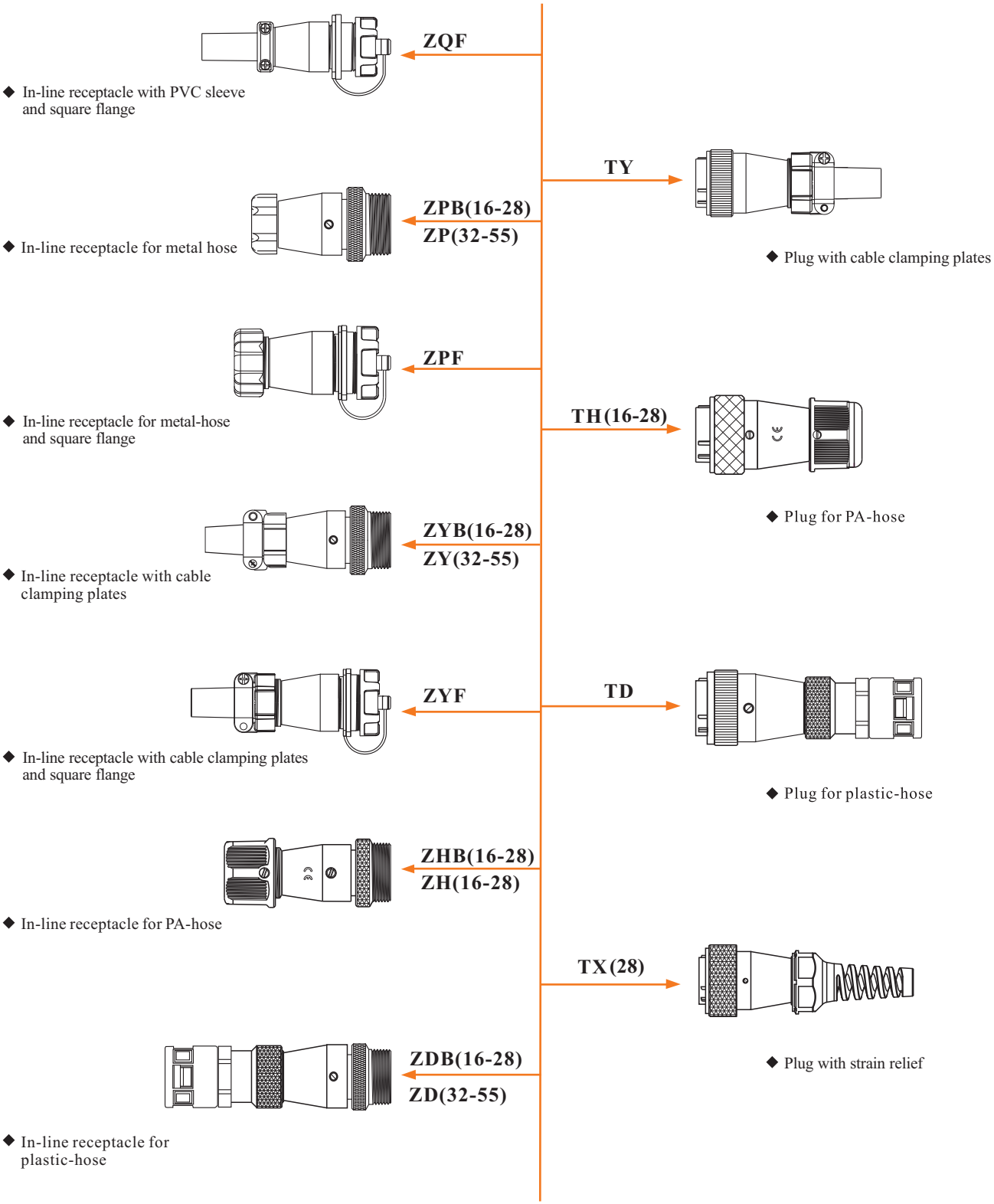
Mating note: Plugs and receptacles in this series are cross-compatible. Combinations are shown on three pages (P17-04 to P17-06).



* Plastic receptacle cap

WS Series Mating diagram

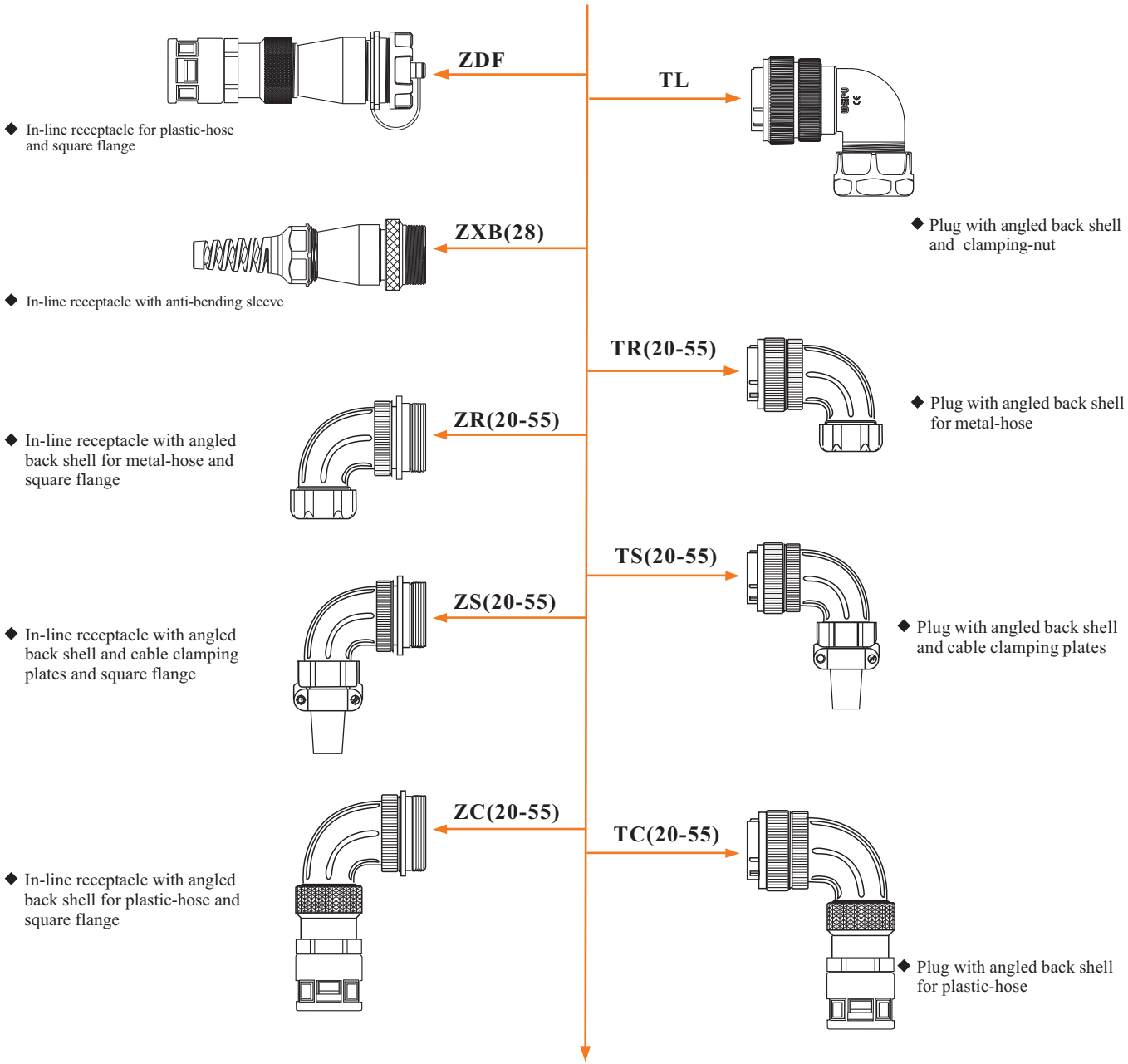
Mating note: Plugs and receptacles in this series are cross-compatible. Combinations are shown on three pages (P17-04 to P17-06).



* Plastic receptacle cap

WS Series Mating diagram

Mating note: Plugs and receptacles in this series are cross-compatible. Combinations are shown on three pages (P17-04 to P17-06).



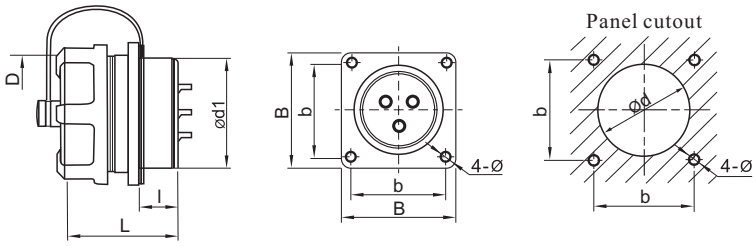
✱ Plastic receptacle cap

★ Contacts can be male or female

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

WS series

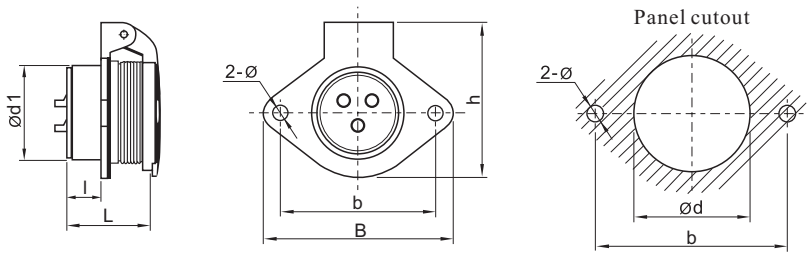
Square flange mount receptacle: Z



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
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
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

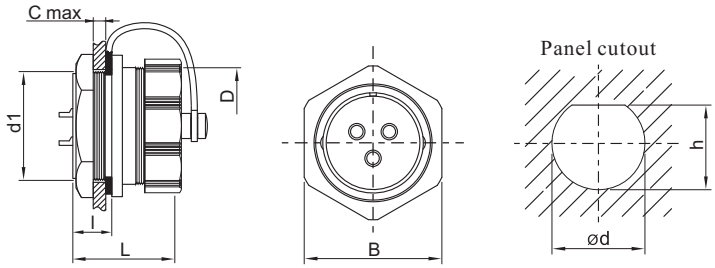
The cap for WS16 is optional, for other models is default configuration

2-hole flange receptacle with cap: ZG



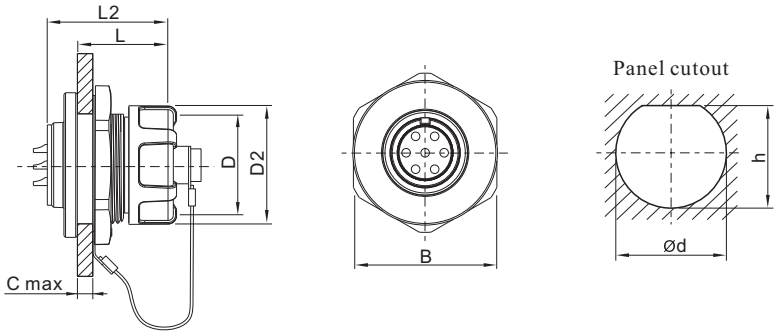
Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
ød1	15.8	19.8	23.8	27.8	31.8	39.8	47.8	54.8
l	10	10	10	10	15.4	14.7	14.3	14
L	22	23	23	23	34	34	34	34
b	30	35	40	45	55	65	80	85
B	38	44	50	55	67	77	92	98
h	32.5	36.5	40.5	45.5	52.5	63.5	74.5	80
ød	16.5	20.5	24.5	28.5	32.5	40.5	48.5	55.5
ø	3.5	4.5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

Round flange receptacle: ZM



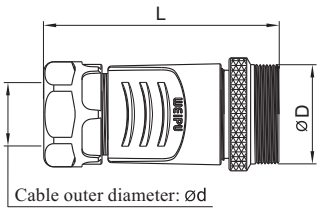
Dimension(mm)	WS16	WS20	WS24	WS28
d1	M16X1	M20X1	M24X1	M28X1
D	M18X1	M22X1	M26X1	M30X1
C	5	5	5	5
l	9.7	9.9	10	10.2
L	21.6	23	23	23
B	21.2	25	29.2	33.3
ød	15.9	19.7	23.7	27.7
h	15.3	19.3	23.2	26.9

Front-nut-mount receptacle: ZMQ



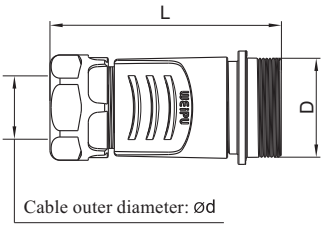
Dimension(mm)	WS16	WS20	WS24	WS28
øD	M18X1	M22X1	M26X1	M30X1
D2	M22X1	M26X1	M30X1	M34X1
L	16	17	17	17
L2	21.6	23	23	23
C	5	5	5	5
B	26.8	30.8	34.8	38.8
ød	22	26	30	34
h	20.6	24.6	28.6	32.6

- In-line receptacle with short back shell and clamping-nut B: ZKB
  In-line shielded receptacle with short back shell and clamping-nut B: ZKPB



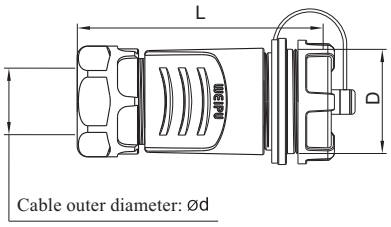
Dimension(mm)	WS16	WS20	WS24	WS28
ØD	M18x1	M22x1	M26x1	M30x1
L	50	60	66	70
Ød	I:4-6.5 II:6-8	I:6-10 II:10-14	I: 6-10 II:10-14	I:10-13 II:12-16

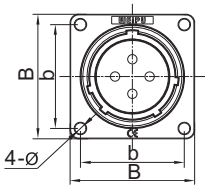
- In-line receptacle with short back shell and clamping-nut : ZK
  In-line shielded receptacle with short back shell and clamping-nut : ZKP

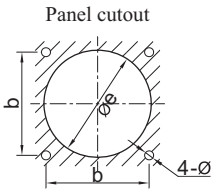


Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
ØD	M18x1	M22x1	M26x1	M30x1	M35x1.5	M44x1.5	M52x1.5	M59x1.5
L	50	60	65	70	84	90	110	127
Ød	I:4-6.5 II:6-8	I:6-10 II:10-14	I:6-10 II:10-14	I:10-13 II:12-16	I:12-16 II:16-20	I:18-22 II:22-26	I:22-26 II:26-30	I:26-30 II:30-34

- Square-flange receptacle with short back shell and clamping-nut : ZKF
  Shielded square-flange receptacle with short back shell and clamping-nut : ZKPF

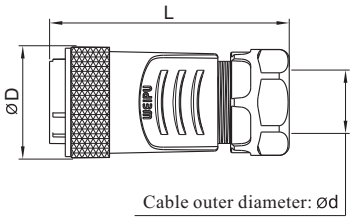






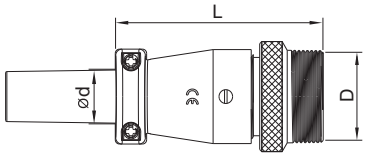
Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
D	M18X1	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	50	60	65	70	84	90	110	127
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
e	18.5	23	26.5	31	35	43	51	58.2
Ø	3.2	3.2	3.2	3.2	3.5	4.5	4.5	4.5
Ød	I:4-6.5 II:6-8	I:6-10 II:10-14	I:6-10 II:10-14	I:10-13 II:12-16	I:12-16 II:16-20	I:18-22 II:22-26	I:22-26 II:26-30	I:26-30 II:30-34

- Plug with short back shell and clamping-nut: TK
  Shielded plug with short back shell and clamping-nut: TKP



Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
ØD	21.7	26.2	30.3	34	39.5	49.1	57.4	64.9
L	50	60	64	70	84	90	110	127
Ød	I:4-6.5 II:6-8	I:6-10 II:10-14	I:6-10 II:10-14	I:10-13 II:12-16	I:12-16 II:16-20	I:18-22 II:22-26	I:22-26 II:26-30	I:26-30 II:30-34

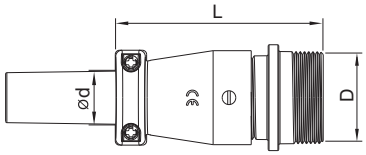
- In-line receptacle with PVC sleeve B: TKP



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

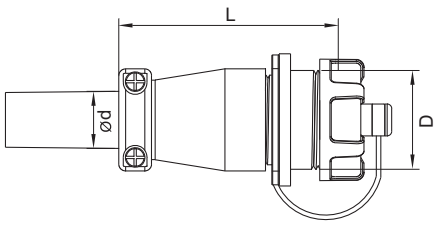
- In-line receptacle with PVC sleeve: ZQ

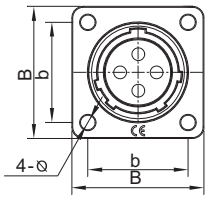


Dimension(mm)	WS32	WS40	WS48	WS55
D	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	70.5	76.5	85	97.5
Ød max	21.5	26	26	32

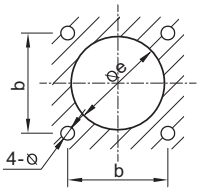
Optional cap size see P20
PVC sleeve dimension see P20

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



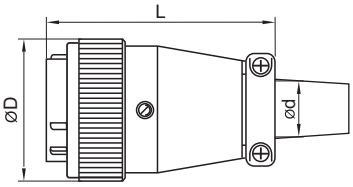


Panel cutout



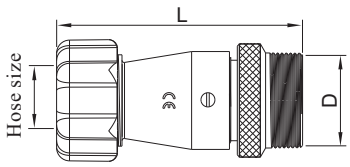
Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
D	M18 1	M22 1	M26 1	M30 1	M35 1.5	M44 1.5	M52 1.5	M59 1.5
L	44.5	49	53	55	70.5	76.5	85	97.5
ød max	10.5	13	13.5	17.5	21.5	26	26	32
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
e	18.5	23	26.5	31	35	43	51	58.2
Ø	3.2	3.2	3.2	3.2	3.5	4.5	4.5	4.5

Plug with PVC sleeve: TQ



Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
ØD	21.7	26.2	30	34	39.5	49.5	57	64.5
L	44	49	53	55	69	76	86	97
ød max	10.5	13	13.5	17.5	21.5	26	26	32

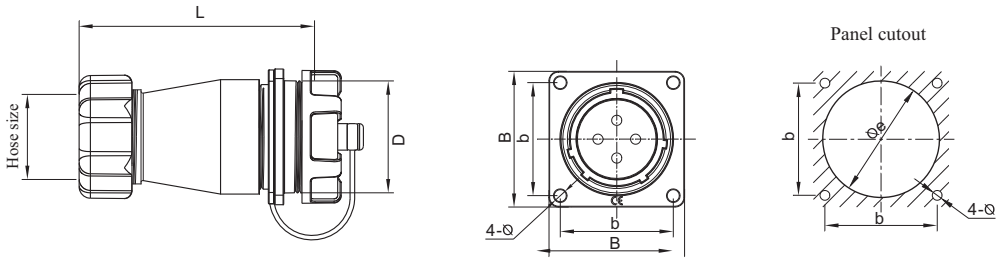
In-line receptacle for metal-hose B: ZPB



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″

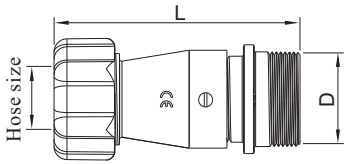
Optional cap size see P20

In-line receptacle for metal-hose 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

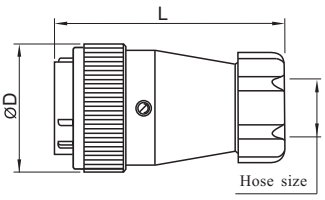
In-line receptacle for metal-hose: ZP



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: 1¼″	1¼″

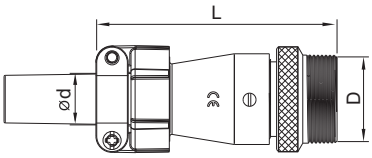
Optional cap size see P20

Plug for metal-hose: TP



Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
ØD	21.7	26.2	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: 1¼″	1¼″

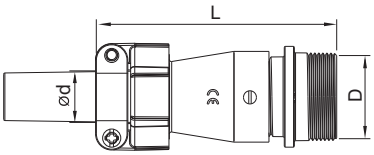
In-line receptacle with cable clamping plates B: ZYB



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

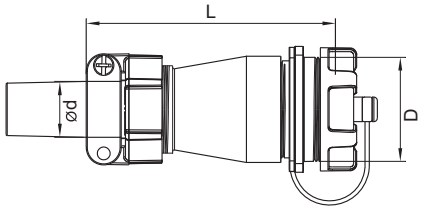
In-line receptacle with cable clamping plates: ZY

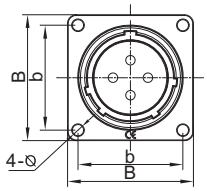


Dimension(mm)	WS32	WS40	WS48	WS55
D	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	86	95	102	117.5
ød max	19	23	I: 23 II: 32	32

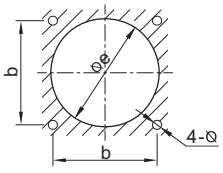
Optional cap size see P20
PVC sleeve dimension see P20

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



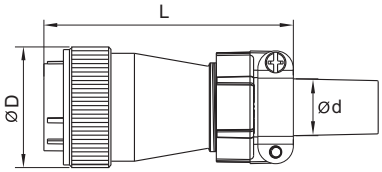


Panel cutout



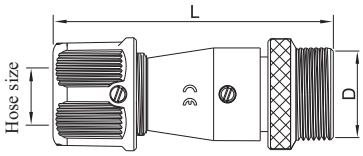
Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
D	M18 1	M22 1	M26 1	M30 1	M35 1.5	M44 1.5	M52 1.5	M59 1.5
L	50.5	60.5	63.5	69	86	95	102	117.5
Ød max	10.4	13.5	13.5	17	19	25	I:24, II:32	32
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
e	18.5	23	26.5	31	35	43	51	58.2
Ø	3.2	3.2	3.2	3.2	3.5	4.5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

Plug with cable clamping plates: TY



Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
ØD	21.7	26.2	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

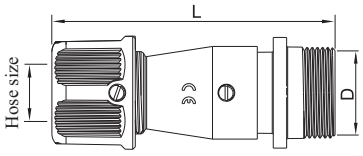
In-line receptacle for PA-hose B: ZHB



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

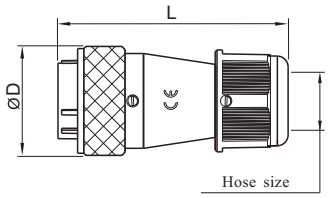
In-line receptacle for PA-hose: ZH



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

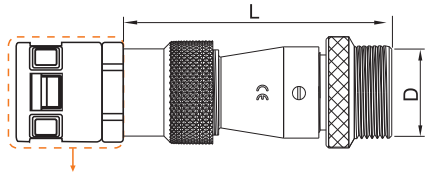
Optional cap size see P20

Plug for PA-hose: TH



Dimension(mm)	WS16	WS20	WS24	WS28
ØD	21.7	26.2	30	34
L	52	63.5	66.5	69.5
Hose size	AD10	AD15.8	AD15.8	AD21.2

In-line receptacle for plastic-hose B: ZDB

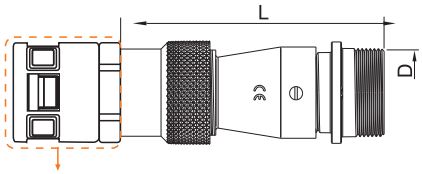


Optional plastic hose adapter

Optional cap size see P20

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

In-line receptacle for plastic-hose: ZD

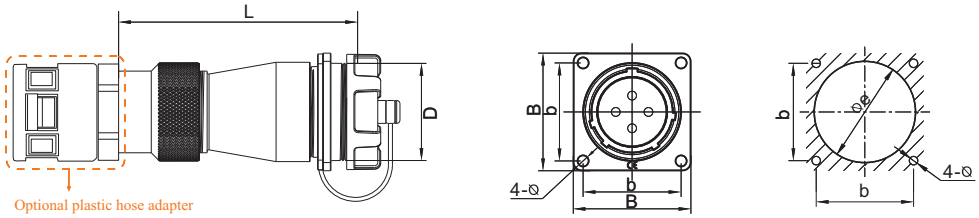


Optional plastic hose adapter

Optional cap size see P20

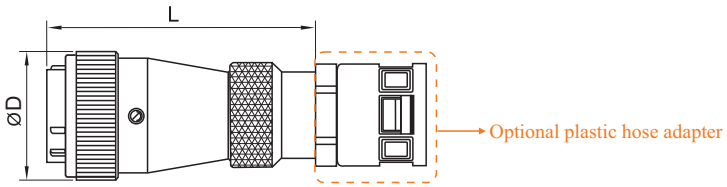
Dimension(mm)	WS32	WS40	WS48	WS55
D	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	89.5	96.5	105	119.5
Adapter size	PG21	PG29	I: PG29 II: PG36	PG36
model of plastic hose adapter	WQG-PG21(B)	WQG-PG29(B)	I: WQG-PG29(B) II: WQG-PG36(B)	WQG-PG36(B)
Hose size	AD28.5	AD34.5	I: AD34.5 II: AD42.5	AD42.5

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



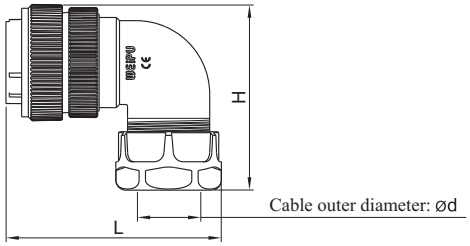
Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
D	M18X1	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	55.5	64.5	69	75.5	89.5	96.5	105	119.5
Adapter size	PG7	PG11	PG11	PG16	PG21	PG29	I:PG29 II:PG36	PG36
Model of plastic hose adapter	WQG-PG7(B)	WQG-PG11(B)	WQG-PG11(B)	WQG-PG16(B)	WQG-PG21(B)	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

Plug for plastic-hose: TD



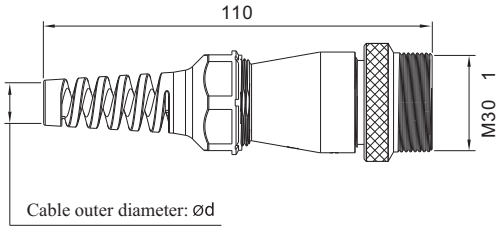
Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
ØD	21.7	26.2	30	34	39.5	49.5	57	64.5
L	56	64.5	68.5	73	88.5	95.5	105	119
Adapter size	PG7	PG11	PG11	PG16	PG21	PG29	I: PG29 II: PG36	PG36
model of plastic hose adapter	WQG-PG7(B)	WQG-PG11(B)	WQG-PG11(B)	WQG-PG16(B)	WQG-PG21(B)	WQG-PG29(B)	I: WQG-PG29(B) 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 with angled back shell and clamping-nut: TL



Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
H	38	47	51	54	67	78	91	100
L	47	56	62	65	81	93	102	106
ød	I:4-6.5 II:6-8	I:6-10 II:10-14	I:6-10 II:10-14	I:10-13 II:12-16	I:12-16 II:16-20	I:18-22 II:22-26	I:22-26 II:26-30	I:26-30 II:30-34

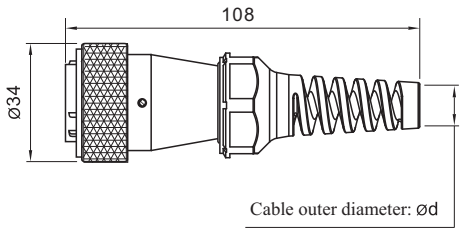
In-line receptacle with anti-bending sleeve B: ZXB



Dimension(mm)	WS28
øD	M30X1
L	110
ød	6-8

It can be produced 28 modle,other models are customizabl

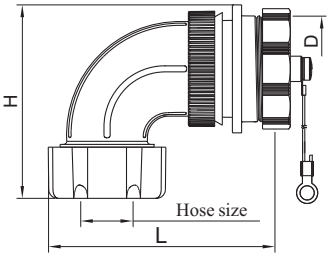
Plug with strain relief: TX

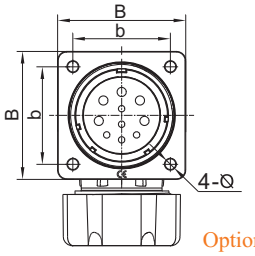


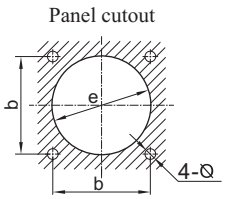
Dimension(mm)	WS28
øD	34
L	108
ød	6-8

It can be produced 28 modle,other models are customizabl

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



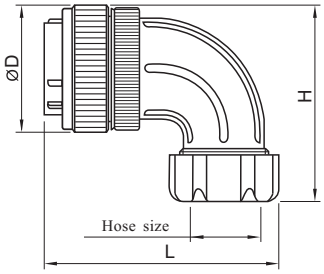




Optional cap size see P20

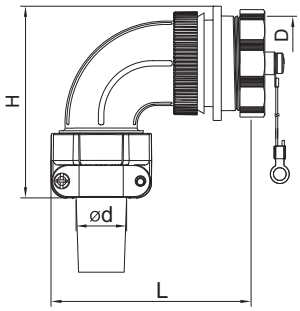
Dimension(mm)	WS20	WS24	WS28	WS32	WS40	WS48	WS55
D	M22 1	M26 1	M30 1	M35 1. 5	M44 1.5	M52 1.5	M59 1.5
L	61	60.5	64.5	83.5	90. 5	97	114. 5
H	48	51. 5	52	63. 5	74. 5	85	98
Hose size	3/8″	3/8″	1/2″	3/4″	1″	1″	1¼″
b	22	26	30	32	40	48	52
B	29	32	36	42	50	58	64
e	26. 6	28. 5	33	37. 5	47	55. 5	62. 2
Ø	3.2	3.2	3.2	3.5	4.5	4.5	4.5

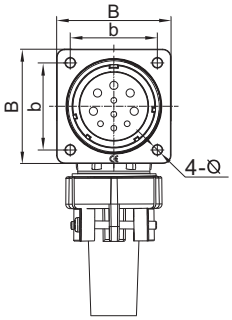
Plug with angled back shell for metal-hose: TR

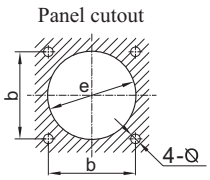


Dimension(mm)	WS20	WS24	WS28	WS32	WS40	WS48	WS55
ØD	27.5	31	35	39	49	57	64.5
H	50	51	54.5	63	73	89	97.5
L	60	60	64	82	87.5	94	115
Hose size	3/8″	3/8″	1/2″	3/4″	1″	1″	1¼″

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



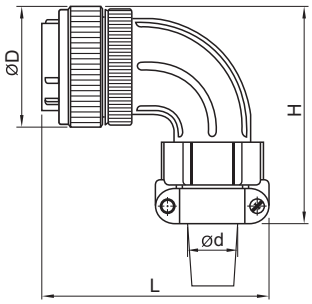




Optional cap size see P20

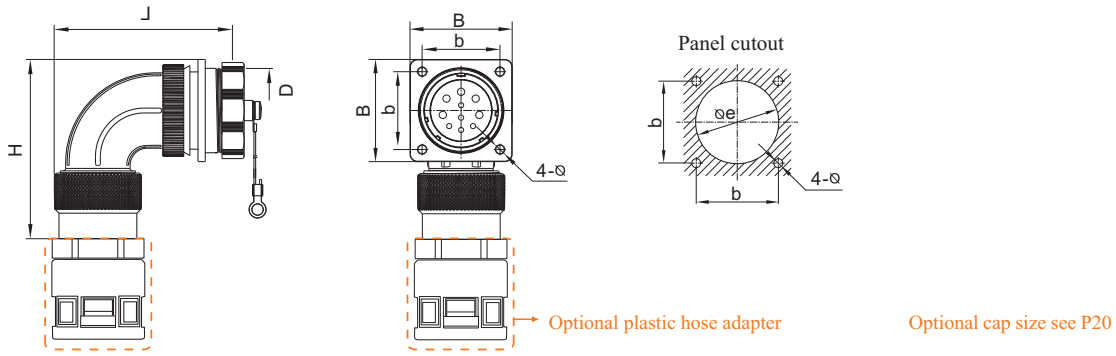
Dimension(mm)	WS20	WS24	WS28	WS32	WS40	WS48	WS55
D	M22 1	M26 1	M30 1	M35 1. 5	M44 1.5	M52 1.5	M59 1.5
L	60.5	60.5	64.5	82	89	95.5	114
H	56.5	57	63.5	72	83.5	94.5	112.5
ød max	13.5	13	17	19	23	23	32
b	22	26	30	32	40	48	52
B	29	32	36	42	50	58	64
e	26. 6	28. 5	33	37. 5	47	55. 5	62. 2
Ø	3.2	3.2	3.2	3.5	4.5	4.5	4.5

Plug with angled back shell with cable clamping plates: TS



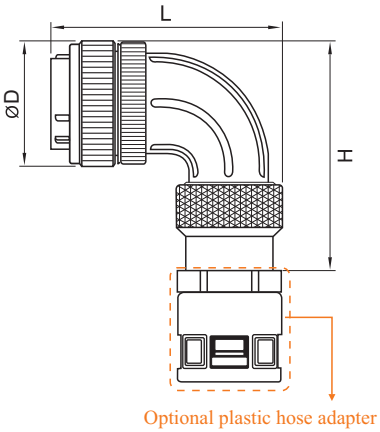
Dimension(mm)	WS20	WS24	WS28	WS32	WS40	WS48	WS55
ØD	27.5	31	35	39	49.5	57	65
H	53.5	56	61	67.5	78	91	99.5
L	60	60	64	81	88	95	106
ød max	13.5	13.5	17	19	23	23	32

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 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

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: Ø1 , Ø1.5 , Ø2.5 , Ø3.5 , Ø5.5mm Crimp: Ø1, Ø1.5, Ø2.5, Ø3.5, Ø5.5, Ø10 mm Screw: Ø2.5, Ø 3, Ø3.5 mm
Mating cycle	500
Temperature range	-40℃~+85℃

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

WF Series

Part number system

WF □ □ □ □ □

Series code

Panel hole cutout diameter

16、20、24、28、32、40、48、55

Contact gender

Male contact

Female contact

★ Contacts can be male or female

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

Number of screw contact:

2、3、4、5、7、8、9、10、11、12、20

Termination type:

-1:Solder

-2:Screw (Ø2.5、Ø3、Ø3.5 mm)
(for Ø2.5, Ø3, Ø3.5 mm contact)

-3:Crimp

Shell structure and cable fix type :

★ Various shell structures; see P18-03 for specifications.

● **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 dacrease rate:(%)	0	10	20	30	40	50	60

Shell structure and cable fix type

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

Straight
ZK: In-line receptacle with short back shell and clamping-nut
ZKP: In-line shielded receptacle with short back shell and clamping-nut
ZKB: In-line receptacle with short back shell and clamping-nut B (for WF16-28)
ZKPB: In-line shielded receptacle with short back shell and clamping-nut B(for WF16-28)
ZKF: square-flange receptacle with short back shell and clamping-nut
ZKPF: shielded square-flange receptacle with short back shell and clamping-nut
TK: plug with short back shell and clamping-nut
TKP: shielded plug with short back shell and clamping-nut
ZEB: Receptacle with clamping-nut B (for WF16-28)
ZE: Receptacle with clamping-nut (for WF32-55)
ZEF: In-line receptacle with clamping-nut and square flange
TE: Plugwith clamping-nut
ZIB: Receptacle with cable clamping plates B (for WF16-28)
ZI: Receptacle with cable clamping plates (for WF32-55)
ZIF: In-line receptacle with cable clamping plates sand square flange
TI: Plug with cable clamping plates
ZAB: Receptacle with plastic clamping-nut B (for WF16-28)
ZA: Receptacle with plastic clamping-nut (for WF32-55)
ZAF: In-line receptacle for receptacle with plastic clamping-nut and square flange
TA: Plug with plastic clamping-nut
ZXB: In-line receptacle with anti-bending sleeve B(for WF28)
TX: Plug with strain relief (for WF28)
ZHB: In-line receptacle for PA-hose B(for WF16-28)
ZH: In-line receptacle for PA-hose (for WF16-28)
TH: Plug for PA-hose (for WF16-28)
ZNB: Receptacle for plastic-hose B (for WF16-28)
ZN: Receptacle for plastic-hose (for WF32-55)
ZNF:In-line receptacle for plug plastic-hose and square flange
TN: Plug for plastic-hose

Angled
TL: Plug with angled back shell and clamping-nut
TU: Plug with clamping-nut
TV: Plug with cable clamping plates
TW: Plug for plastic-hose

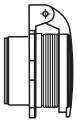
WF Series Mating diagram

Mating note: Plugs and receptacles in this series are cross-compatible.
Combinations are shown on three pages (P18-04 to P18-06).

◆ Square flange receptacle IP67

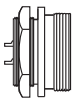
Z

◆ 2-hole flange receptacle with cap IP67 (cap IP44)



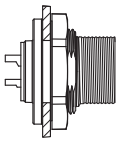
ZG

◆ Round flange receptacle IP67



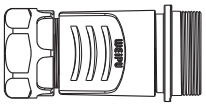
ZM

◆ Front-nut-mount receptacle IP67



ZMQ

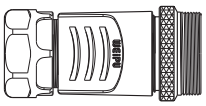
◆ In-line receptacle with short back shell and clamping-nut



ZK
ZKP

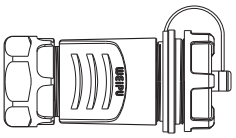
◆ In-line shielded receptacle with short back shell and clamping-nut

◆ In-line receptacle with short back shell and clamping-nut B



ZKB(16-28)
ZKPB(16-28)

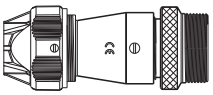
◆ In-line shielded receptacle with short back shell and clamping-nut B



ZKF
ZKPF

◆ square-flange receptacle with short back shell and clamping-nut

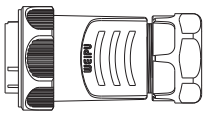
◆ shielded square-flange receptacle with short back shell and clamping-nut



ZEB(16-28)
ZE(32-55)

◆ In-line receptacle with clamping-nut IP67

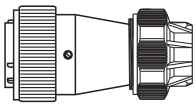
TK
TKP



◆ Plug with short back shell and clamping-nut IP67

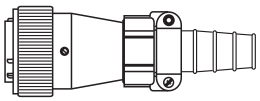
◆ shielded plug with short back shell and clamping-nut

TE



◆ Plug with clamping-nut IP67

TI

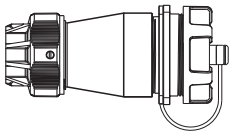


◆ Plug with cable clamping plates IP65

✱ Plastic receptacle cap IP44

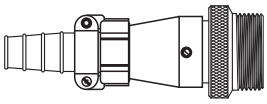
WF Series Mating diagram

Mating note: Plugs and receptacles in this series are cross-compatible.
Combinations are shown on three pages (P18-04 to P18-06).



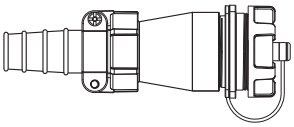
ZEF

◆ In-line receptacle with clamping-nut and square flange IP67



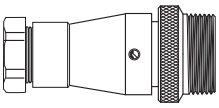
ZIB(16-28)
ZI(32-55)

◆ In-line receptacle with cable clamping plates IP65



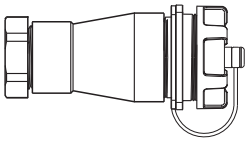
ZIF

◆ In-line receptacle with cable clamping plates and square flange IP65



ZAB(16-28)
ZA(32-55)

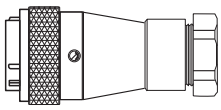
◆ In-line receptacle with plastic clamping-nut IP65



ZAF

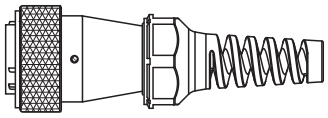
◆ In-line receptacle for receptacle with plastic clamping-nut and square flange IP65

TA



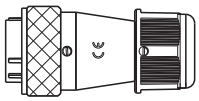
◆ Plug with plastic clamping-nut IP65

TX(28)



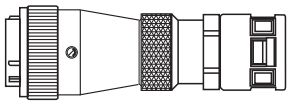
◆ Plug with strain relief IP67

TH(16-28)



◆ Plug for PA-hose IP65

TN

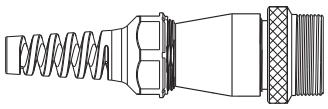


◆ Plug for plastic-hose IP55

✱ Plastic receptacle cap IP44

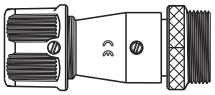
WF Series Mating diagram

Mating note: Plugs and receptacles in this series are cross-compatible.
Combinations are shown on three pages (P18-04 to P18-06).



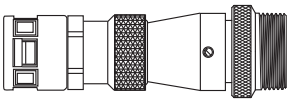
ZXB(28)

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



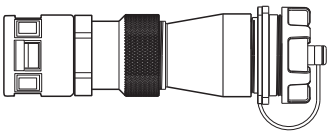
ZHB(16-28)
ZH(16-28)

◆ In-line receptacle for PA-hose IP65



ZNB(16-28)
ZN(32-55)

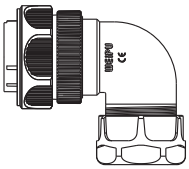
◆ In-line receptacle for plastic-hose IP55



ZNF

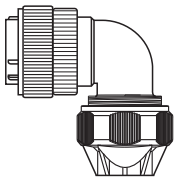
◆ In-line receptacle for plug plastic-hose and square flange IP55

TL



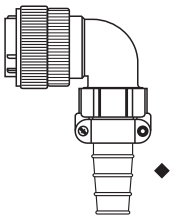
◆ Plug with angled back shell and clamping-nut IP67

TU



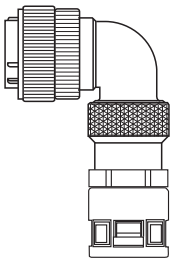
◆ Plug with angled back shell and clamping-nut IP65

TV



◆ Plug with angled back shell and cable clamping plates IP65

TW



◆ Plug with angled back shell for plastic-hose IP55

✱ Plastic receptacle cap IP44

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

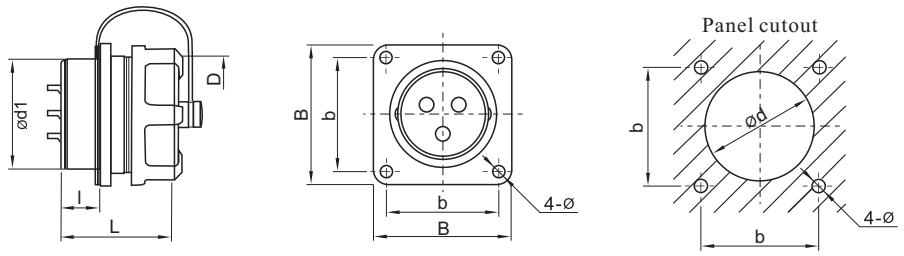
★ Contacts can be male or female

★ Solder contact spec see page P21

★ Crimp contact spec see P22

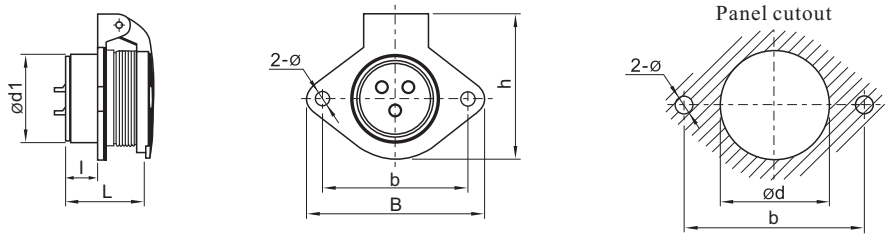
★ Screw contact spec see P23

Square flange receptacle: Z IP67



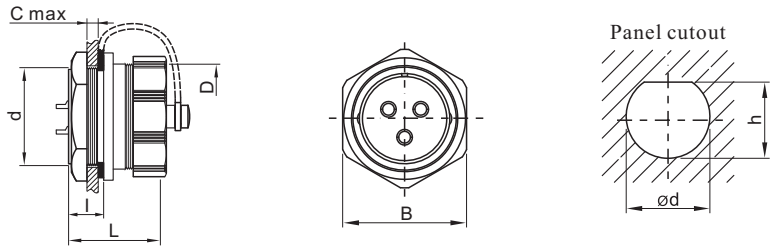
Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
ød1	15.8	19.8	23.8	27.8	31.8	39.8	47.8	54.8
D	M18X1	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
l	9.7	10	10	10	14.4	14.2	14.2	14
L	21.6	23	23	23	34	34	34	34
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
ød	16.5	20.5	24.5	28.5	32.5	40.5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

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



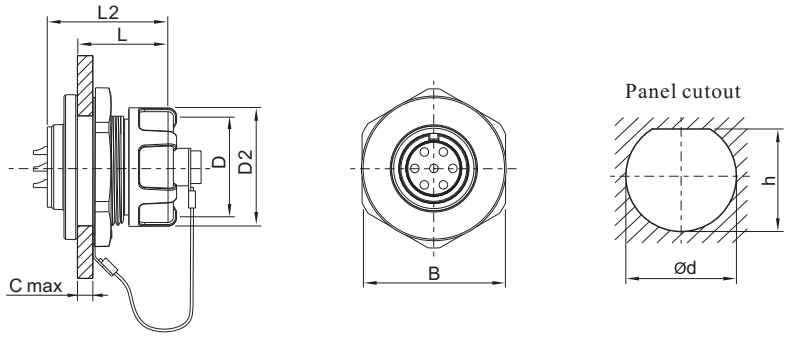
Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
ød1	15.8	19.8	23.8	27.8	31.8	39.8	47.8	54.8
l	10	10	10	10	15.4	14.7	14.3	14
L	22	23	23	23	34	34	34	34
b	30	35	40	45	55	65	80	85
B	38	44	50	55	67	77	92	98
h	32.5	36.5	40.5	45.5	52.5	63.5	74.5	80
ød	16.5	20.5	24.5	28.5	32.5	40.5	48.5	55.5
ø	3.5	4.5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

Round flange receptacle: ZM IP67



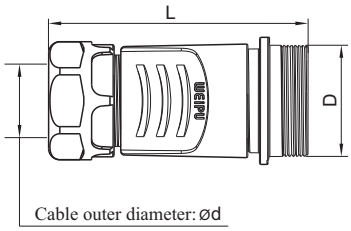
Dimension(mm)	WF16	WF20	WF24	WF28
d	M16X1	M20X1	M24X1	M28X1
D	M18X1	M22X1	M26X1	M30X1
C	5	5	5	5
l	9.7	9.9	10	10.2
L	21.6	23	23	23
B	21.2	25.5	29.2	33.3
ød	15.9	19.7	23.7	27.7
h	15.3	19.3	23.2	26.9

Front-nut-mount panel receptacle: ZMQ IP67



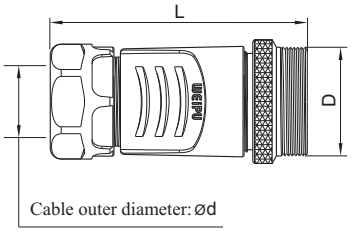
Dimension(mm)	WF16	WF20	WF24	WF28
D	M18X1	M22X1	M26X1	M30X1
D2	M22X1	M26X1	M30X1	M34X1
L	16	17	17	17
L2	21.6	23	23	23
C	5	5	5	5
B	26.8	30.8	34.8	38.8
ød	22	26	30	34
h	20.6	24.6	28.6	32.6

- In-line receptacle with short back shell and clamping-nut : ZK
  In-line shielded receptacle with short back shell and clamping-nut : ZKP



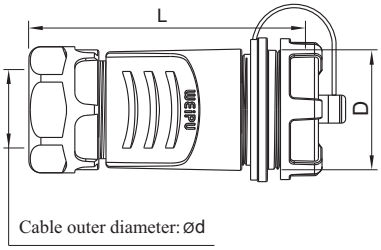
Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
øD	M18x1	M22x1	M26x1	M30x1	M35x1.5	M44x1.5	M52x1.5	M59x1.5
L	50	60	64	70	84	90	110	127
ød	I:4-6.5 II:6-8	I:6-10 II:10-14	I:6-10 II:10-14	I:10-13 II:12-16	I:12-16 II:16-20	I:18-22 II:22-26	I:22-26 II:26-30	I:26-30 II:30-34

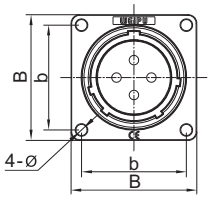
- In-line receptacle with short back shell and clamping-nut B: ZKB
  In-line shielded receptacle with short back shell and clamping-nut B: ZKPB

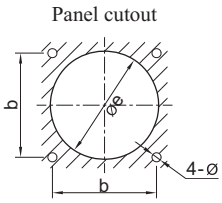


Dimension(mm)	WF16	WF20	WF24	WF28
øD	M18x1	M22x1	M26x1	M30x1
L	50	60	64	70
ød	I:4-6.5 II:6-8	I:6-10 II:10-14	I:6-10 II:10-14	I:10-13 II:12-16

- Square-flange receptacle with short back shell and clamping-nut: ZKF
  Shielded square-flange receptacle with short back shell and clamping-nut: ZKPF

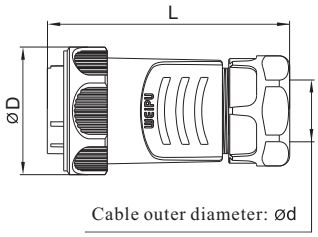






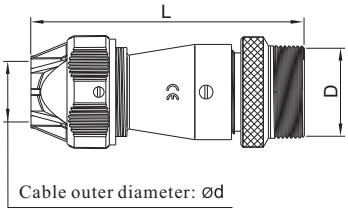
Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
D	M18X1	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	50	60	64	70	84	90	110	127
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
e	18.5	23	26.5	31	35	43	51	58.2
Ø	3.2	3.2	3.2	3.2	3.5	4.5	4.5	4.5
ød	I:4-6.5 II:6-8	I:6-10 II:10-14	I:6-10 II:10-14	I:10-13 II:12-16	I:12-16 II:16-20	I:18-22 II:22-26	I:22-26 II:26-30	I:26-30 II:30-34

Plug with short back shell and clamping-nut: TK IP67
Shielded plug with short back shell and clamping-nut: TKP IP67



Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
ØD	22.6	27.7	31.9	36.6	42	50	58	65.8
L	50	60	64	70	84	90	110	127
Ød	I:4-6.5 II:6-8	I:6-10 II:10-14	I:6-10 II:10-14	I:10-13 II:12-16	I:12-16 II:16-20	I:18-22 II:22-26	I:22-26 II:26-30	I:26-30 II:30-34

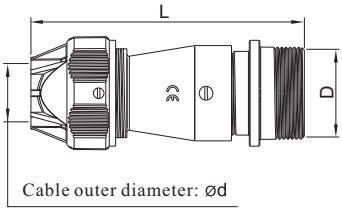
In-line receptacle with clamping-nut B: ZEB IP67



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

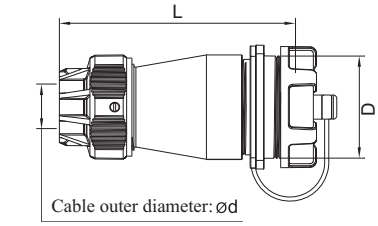
In-line receptacle with clamping-nut: ZE IP67

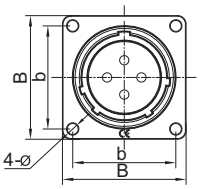


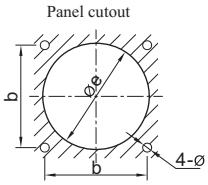
Dimension(mm)	WF32	WF40	WF48	WF55
D	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	90.5	99.5	108	134.5
Ød	15.5-17	18-20	I:18-20 II: 24. 5-26	24.5-26

Optional cap size see P20

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

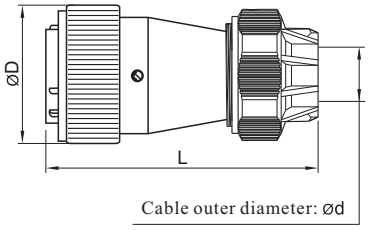






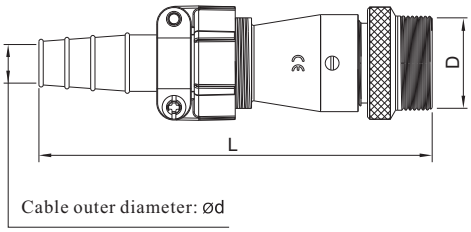
Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
D	M18X1	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	55	63	66. 5	70	90.5	99.5	108.5	134.5
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
e	18.5	23	26.5	31	35	43	51	58.2
Ød	I:3.5-5 II:5-6.5	9-10.5	9-10.5	10.5-12.5	I:13.5-15.5 II:15.5-17	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 clamping-nut:TE IP67



Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
øD	22	26.2	30	34	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

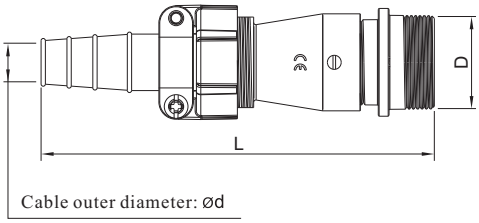
In-line receptacle with cable clamping plates B: ZIB IP65



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

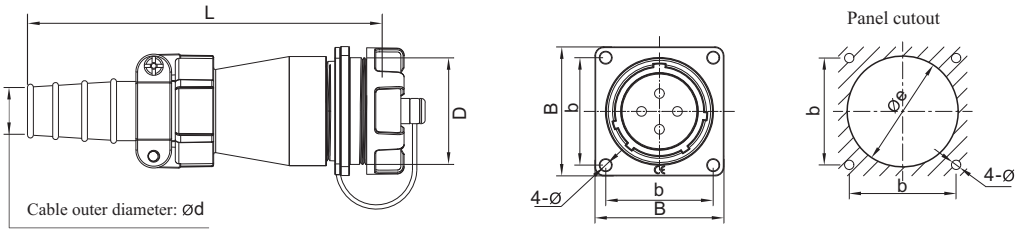
In-line receptacle with cable clamping plates: ZI IP65



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

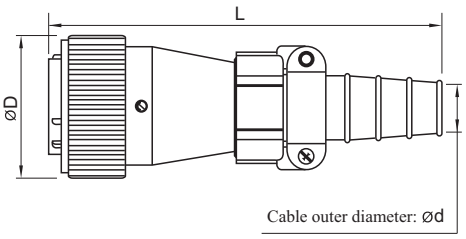
Optional cap size see P20

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



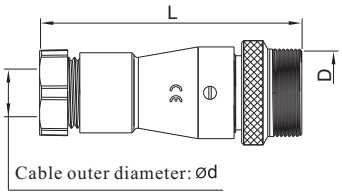
Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
D	M18X1	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	73.5	90	93. 5	104	118. 5	130	137	163
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
e	18.5	23	26.5	31	35	43	51	58.2
ød	7-8	8-10.5	8-10. 5	11.5-13.6	13-15.6	15.5-18.8	I:15.8-18.8 II:24-28	24-28
ø	3.2	3.2	3.2	3.2	3.5	4.5	4.5	4.5

Plug with cable clamping plates: TI IP65



Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
ØD	22	26.2	30	34	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

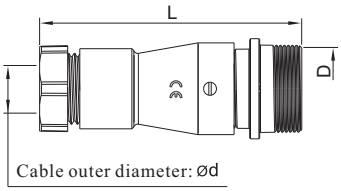
In-line receptacle with plastic clamping-nut B: ZAB IP65



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

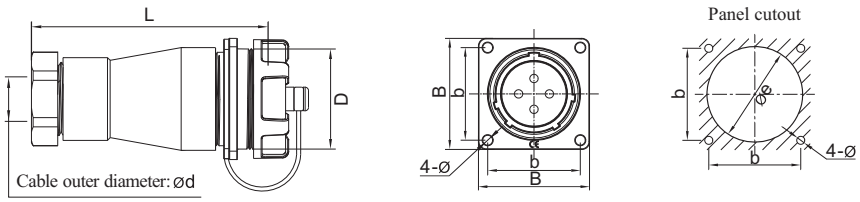
In-line receptacle with plastic clamping-nut: ZA IP65



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

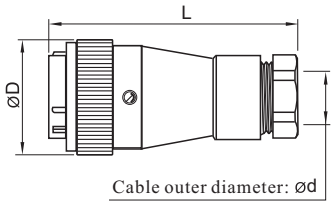
Optional cap size see P20

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



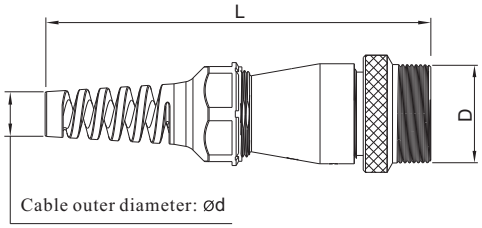
Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
D	M18X1	M22X1	M26X1	M30X1	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	53.5	65	68	73.5	89	109	108.5	128
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
e	18.5	23	26.5	31	35	43	51	58.2
ød	4.5-7	5-12	5-12	6.5-15.5	8.5-19.5	11.5-24.5	11.5-24.5	15-31
ø	3.2	3.2	3.2	3.2	3.5	4.5	4.5	4.5

Plug with plastic clamping-nut: TA IP65



Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
ØD	22	26.2	30	34	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

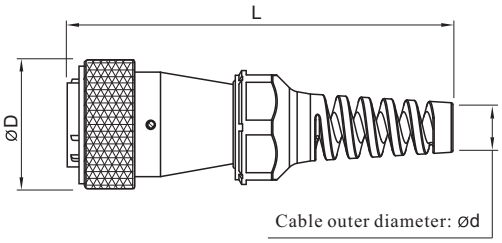
In-line receptacle with anti-bending sleeve B: ZXB IP67



Dimension(mm)	WF28
ØD	M30x1
L	110
Ød	6-8

It can be produced 28 modle,other models are customizabl

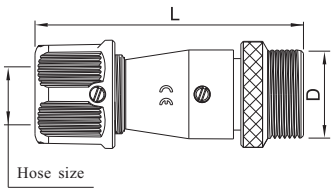
Plug with strain relief: TX IP67



Dimension(mm)	WF28
ØD	34.5
L	108
Ød	6-8

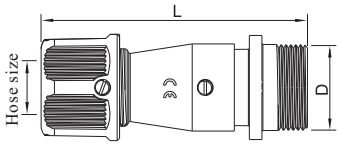
It can be produced 28 modle,other models are customizabl

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

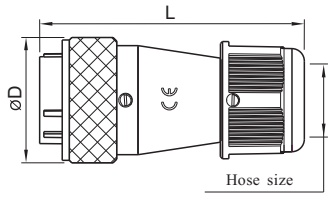
In-line receptacle for PA-hose: ZH IP65



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

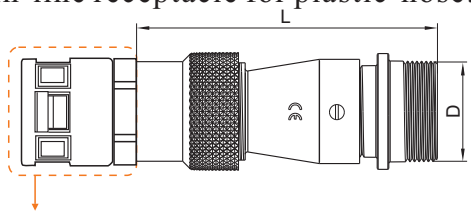
Optional cap size see P20

Plug for PA-hose: TH IP65



Dimension(mm)	WF16	WF20	WF24	WF28
D	22	26. 2	30	34
L	51	62. 5	65.5	68.5
Hose size	AD10	AD15.8	AD15.8	AD21.2

In-line receptacle for plastic-hose: ZN IP55

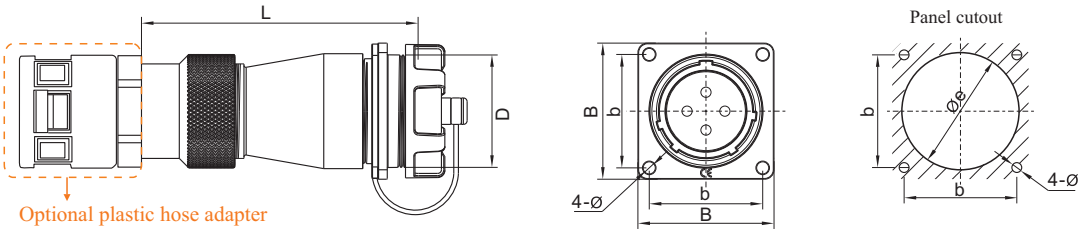


Optional plastic hose adapter

Optional cap size see P20

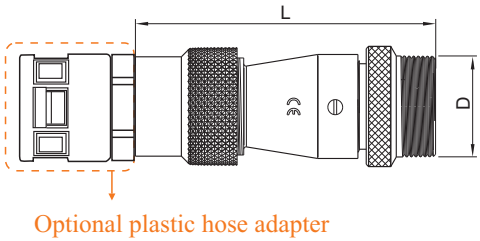
Dimension(mm)	WF32	WF40	WF48	WF55
D	M35X1.5	M44X1.5	M52X1.5	M59X1.5
L	86.5	95	104	120
Adapter size	PG21	PG29	I: PG29 II: PG36	PG36
model of plastic hose adapter	WQG-PG21(B)	WQG-PG29(B)	I: WQG-PG29(B) II: WQG-PG36(B)	WQG-PG36(B)
Hose size	AD28.5	AD34.5	I: AD34.5 II: AD42.5	AD42.5

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)	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

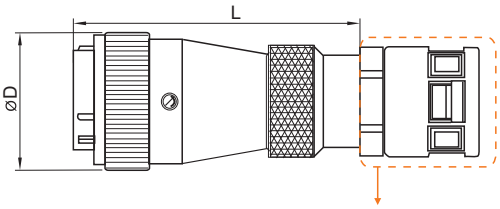
In-line receptacle for plastic-hose B: ZNB IP55



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

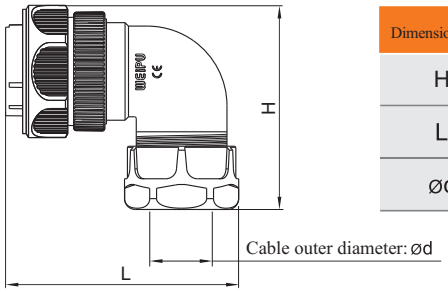
Optional cap size see P20

Plug for plastic-hose: TN IP55



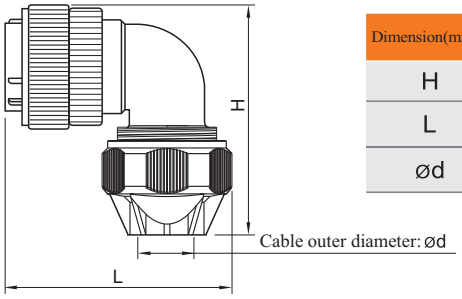
Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
øD	22	26.2	30	34	39.5	49.5	57	64.5
L	54	62.5	66.5	72.5	87.5	95	105	118
Adapter size	PG7	PG11	PG11	PG16	PG21	PG29	I: PG29 II: PG36	PG36
model of plastic hose adapter	WQG-PG7(B)	WQG-PG11(B)	WQG-PG11(B)	WQG-PG16(B)	WQG-PG21(B)	WQG-PG29(B)	I:WQG-PG29(B) 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

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



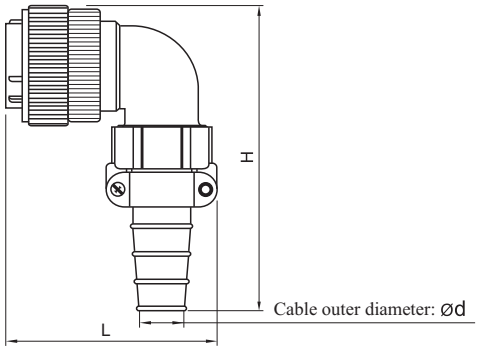
Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
H	38	47	53	57	67	78	91	100
L	47	56	62	65	81	93	102	106
ød	I:4-6.5 II:6-8	I:6-10 II:10-14	I:6-10 II:10-14	I:10-13 II:12-16	I:12-16 II:16-20	I:18-22 II:22-26	I:22-26 II:26-30	I:26-30 II:30-34

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



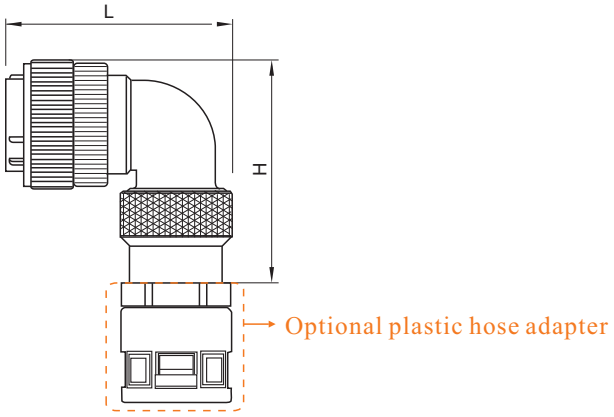
Dimension(mm)	WF16	WF20	WF24	WF28	WF32	WF40	WF48	WF55
H	43	51	59	57	73.5	85	103	108
L	48	57	59	61	84	90	97	109
ød	5-6.5	9-10.5	9-10.5	10.5-12.5	15.5-17	18-20	24.5-26	24.5-26

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

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

Material and spec

Coupling	Bayonet
Shell material	Zinc alloy with chrome plating ; Data: PBT, PVC
Insert material	PPS, max temperature 260 ℃
Contact material	Brass with gold plating
Termination	Solder: Ø0.7 , Ø1 , Ø1.5 , Ø1.6 , Ø2.5 , Ø3.5 , Ø5.5mm Crimp: Ø1, Ø1.5, Ø2.5, Ø3.5, Ø5.5, Ø10mm Screw: Ø2.5, Ø 3, Ø3.5 mm
Mating cycle	500 USB:1500
Temperature range	-40℃~+85℃ Signal、Data: -20℃~+70℃
Transmission Speed	Cat5: 10-100Mbps Cat6: 100-1000Mbps

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

WY Series

Part number system

WY □ □ □ □ □

Series code

Panel hole cutout diameter

16、20、24、28、32、40、48、55

Contact gender

J: Male contact

K: Female contact

★ Contacts can be male or female

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

Number of screw contact:

2、3、4、5、7、8、9、10、11、12、20

Termination type:

-1: Solder

-2: Screw（for ø2.5, ø3, ø3.5 mm contact）

-3: Crimp

Shell structure and cable fix type :

★ Various shell structures; see P19-03 for specifications.

● **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 dacrease rate:(%)	0	10	20	30	40	50	60

Part number system

WY 24 □ □ □

Series code

Panel hole cutout diameter

Contact gender

J: Male contact

K: Female contact

RJ45

LC

HDMI2.0

USB3.0

Shell structure and cable fix type :

Z: Square flange panel receptacle

ZM: Round flange receptacle

ZMQ: Front flange receptacle

ZG: 2-hole flange receptacle

TE: Plug with metal clamping-nut

ZEB: Receptacle with metal clamping-nut B

ZE: Receptacle with metal clamping-nut

Shell structure and cable fix type

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

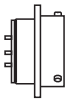
Straight
ZK: In-line receptacle with short back shell and clamping-nut
ZKP: In-line shielded receptacle with short back shell and clamping-nut
ZKB: In-line receptacle with short back shell and clamping-nutB (WY16-28)
ZKPB: In-line shielded receptacle with short back shell and clamping-nutB (WY16-28)
ZKF: Square-flange receptacle with short back shell and clamping-nut
ZKPF: Shielded square-flange receptacle with short back shell and clamping-nut
TK: Plug with short back shell and clamping-nut
TKP: Shielded plug with short back shell and clamping-nut
ZEB: Receptacle with clamping-nut B (for WY16-28)
ZE: Receptacle with clamping-nut (for WY32-55)
ZEF: In-line receptacle with clamping-nut and square flange
TE: Plug with metal clamping-nut
ZIB: Receptacle with cable clamping plates B (for WY16-28)
ZI: Receptacle with cable clamping plates (for WY32-55)
ZIF: In-line receptacle with cable clamping plates and square flange
T I: Plug with cable clamping plates
ZXB: In-line receptacle with strain relief B (for WY28)
TX: Plug with strain relief (for WY28)
ZBB: Receptacle for plastic-hose B (for WY16-28)
ZB: Receptacle for plastic-hose (for WY32-55)
ZBF: In-line receptacle for plug plastic-hoseand square flange
TB: Plug for plastic-hose
ZHB: In-line receptacle for PA-hose B (for WY16-28)
ZH: In-line receptacle for PA-hose (for WY16-28)
TH: Plug for PA-hose (for WY16-28)

Angled
TL: Plug with angled back shell and clamping-nut
TU: Plug with clamping-nut
TV: Plug with cable clamping plates
TW: Plug for plastic-hose

WY Series Mating diagram

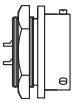
Mating note: Plugs and receptacles in this series are cross-compatible. Combinations are shown on three pages (P19-04 to P19-06).

◆ Square flange receptacle IP67



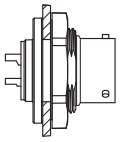
Z

◆ Round flange receptacle IP67



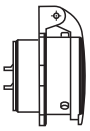
ZM

◆ Front-nut-mount receptacle IP67

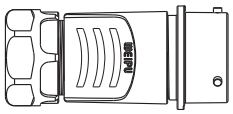


ZMQ

◆ 2-hole flange receptacle with cap IP67 (cap IP44)



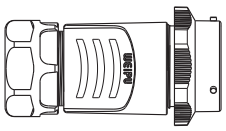
ZG



ZK
ZKP

◆ In-line receptacle with short back shell and clamping-nut IP67

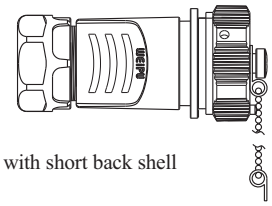
◆ In-line shielded receptacle with short back shell and clamping-nut IP67



ZKB(16-28)
ZKPB(16-28)

◆ In-line receptacle with short back shell and clamping-nut B IP67

◆ In-line shielded receptacle with short back shell and clamping-nut B IP67

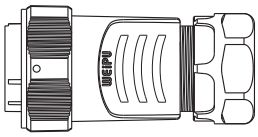


ZKF
ZKPF

◆ Square-flange receptacle with short back shell and clamping-nut IP67

◆ Shielded square-flange receptacle with short back shell and clamping-nut IP67

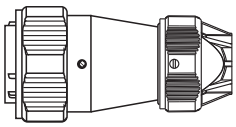
TK
TKP



◆ Plug with short back shell and clamping-nut IP67

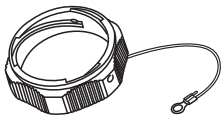
◆ Shielded plug with short back shell and clamping-nut IP67

TE



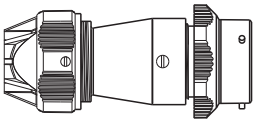
◆ Plug with metal clamping-nut IP67

* Receptacle cap IP67



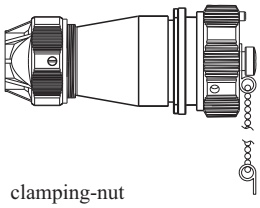
WY Series Mating diagram

Mating note: Plugs and receptacles in this series are cross-compatible. Combinations are shown on three pages (P19-04 to P19-06).



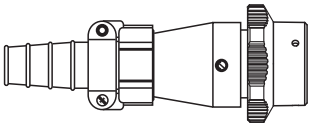
ZEB(16-28)
ZE(32-55)

◆ In-line receptacle with clamping-nut IP67



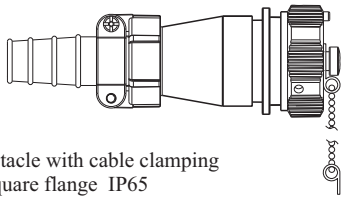
ZEF(16-55)

◆ In-line receptacle with clamping-nut and square flange IP67



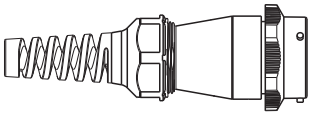
ZIB(16-28)
ZI(32-55)

◆ In-line receptacle with cable clamping plates IP65



ZIF(16-55)

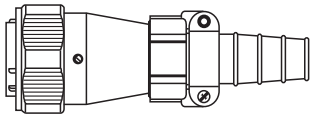
◆ In-line receptacle with cable clamping plates and square flange IP65



ZXB(28)

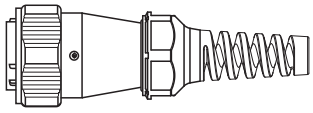
◆ In-line receptacle with strain relief B IP67

TI



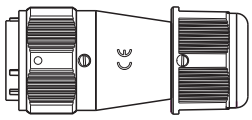
◆ Plug with cable clamping plates IP65

TX(28)



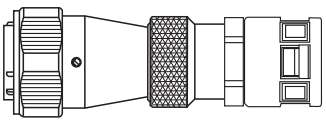
◆ Plug with strain relief IP67

TH(16-28)



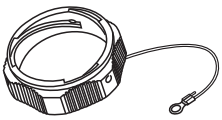
◆ Plug for PA-hose IP65

TB



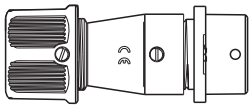
◆ Plug for plastic-hose IP55

✱ Receptacle cap IP67



WY Series Mating diagram

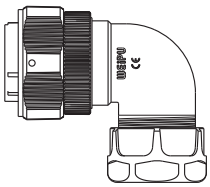
Mating note: Plugs and receptacles in this series are cross-compatible. Combinations are shown on three pages (P19-04 to P19-06).



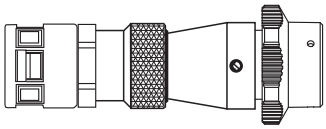
ZHB(16-28)
ZH(16-28)

◆ In-line receptacle for PA-hose IP65

TL



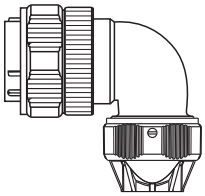
◆ Plug with angled back shell and clamping-nut IP67



ZBB(16-28)
ZB(32-55)

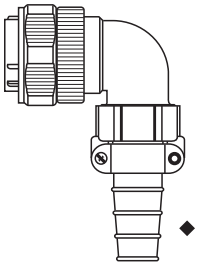
◆ In-line receptacle for plastic-hose IP55

TU

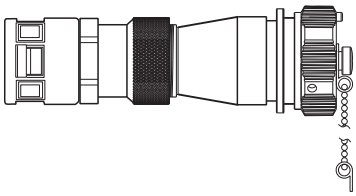


◆ Plug with angled back shell and clamping-nut IP66

TV



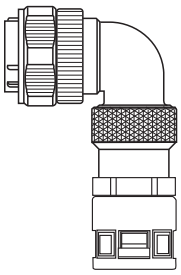
◆ Plug with angled back shell and cable clamping plates IP65



ZBF(16-55)

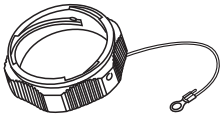
◆ In-line receptacle for plug plastic-hose and square flange IP55

TW



◆ Plug with angled back shell for plastic-hose IP55

✱ Receptacle cap IP67



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

★ Contacts can be male or female.

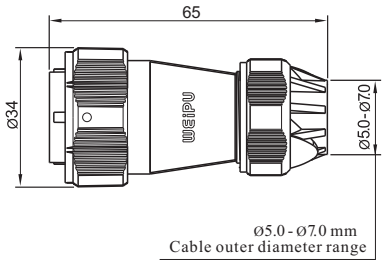
★ Solder contact spec see page P21

★ Crimp contact spec see P22

★ Screw contact spec see P23

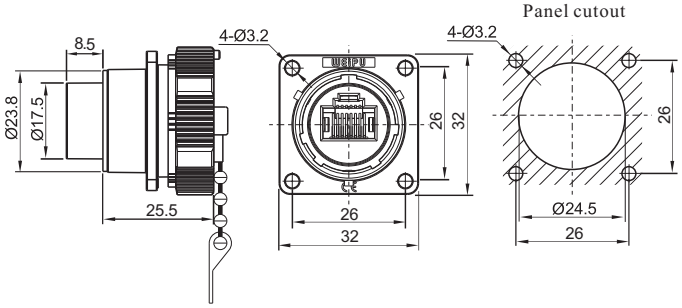
NEW

Plug with metal clamping-nut
Mate with WY24KRJ45Z



WY24JRJ45TE

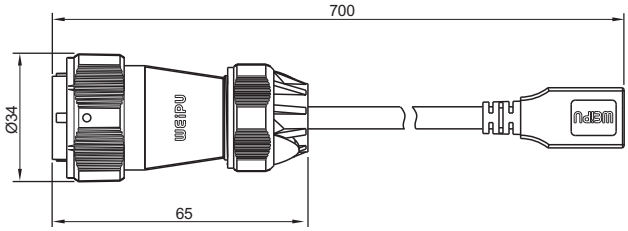
Square flange receptacle
Mate with WY24JRJ45TE



WY24KRJ45__Z

Standard: Cat 5
-C6: Cat6

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

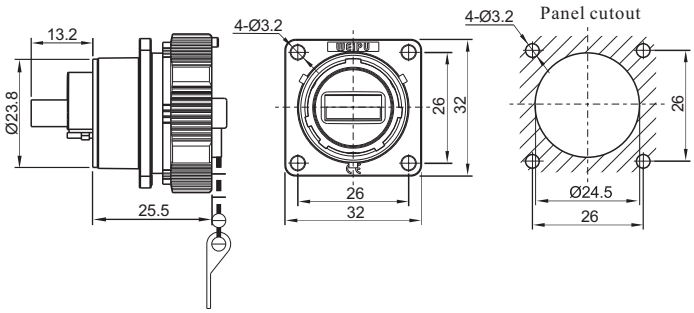


WY24JUSB3.0TE-__

Cable length:
1.0 m
3.0 m

★ Cable length can be customized

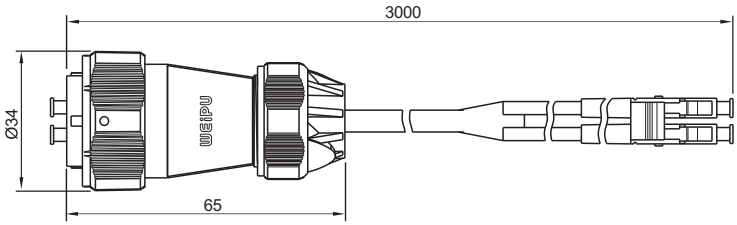
Square flange receptacle
Mate with
WY24JUSB3.0TE



WY24KUSB3.0Z

NEW

Plug with metal clamping-nut
Mate with WY24KLCZ

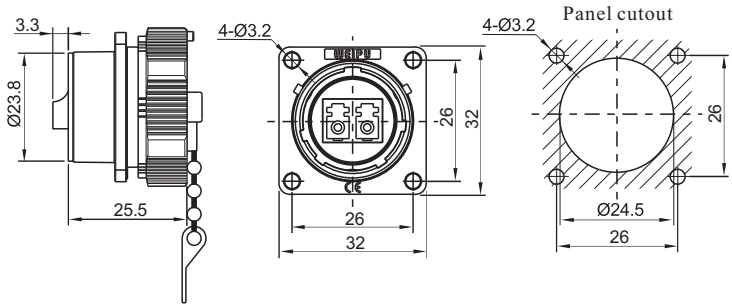


WY24JLCTE-__

Cable length:
1.0 m
3.0 m
5.0 m

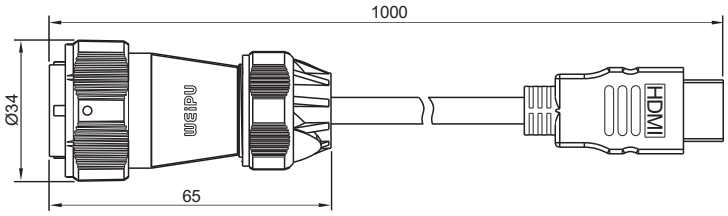
★ Cable length can be customized

Square flange receptacle
Mate with WY24JLCTE



WY24KLCZ

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

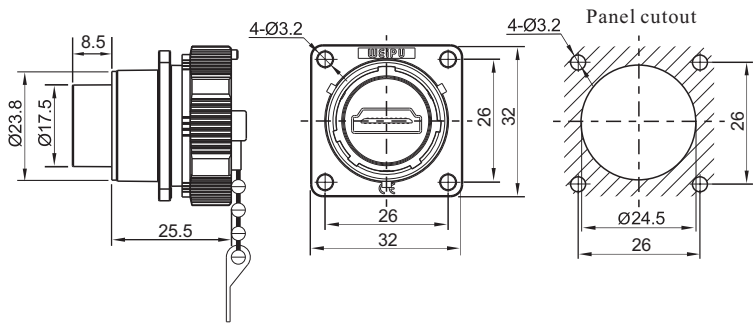


WY24JHDMI2.0TE-__

Cable length:
1.0 m
3.0 m

★ Cable length can be customized

Square flange receptacle
Mate with
WY24JHDMI2.0TE



WY24KHDMI2.0Z

WY12 Series

NEW

WY 12

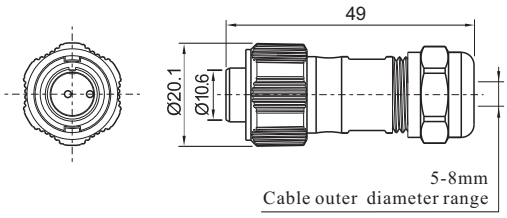
WY12J__TE WY12K__TE

Male contact

Number of contact

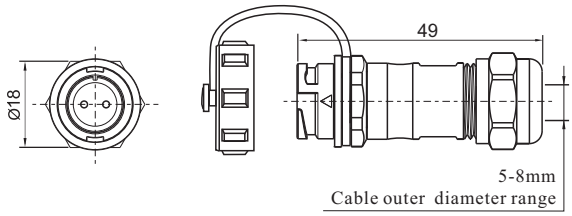
Female contact

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



WY12J__ZE WY12K__ZE

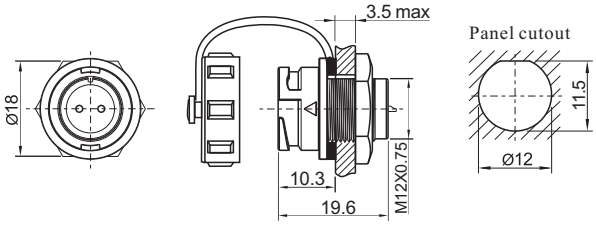
In-line cable connector
Mate with WY12-TE



WY12J__ZM WY12K__ZM

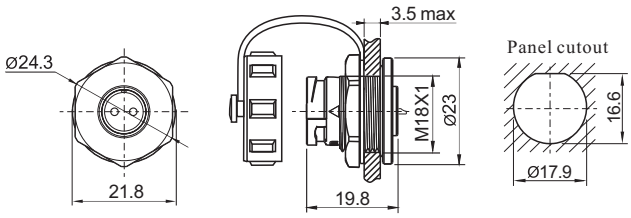
Number of contact

Rear-nut mount
Mate with WY12-TE



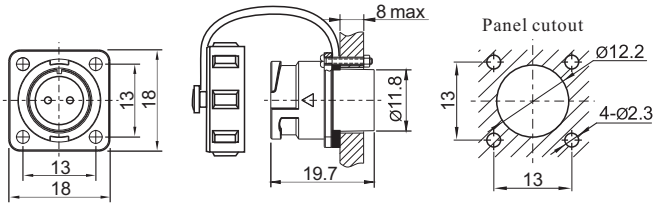
WY12J__ZMQ WY12K__ZMQ

Front-nut mount
Mate with WY12-TE



WY12J__Z WY12K__Z

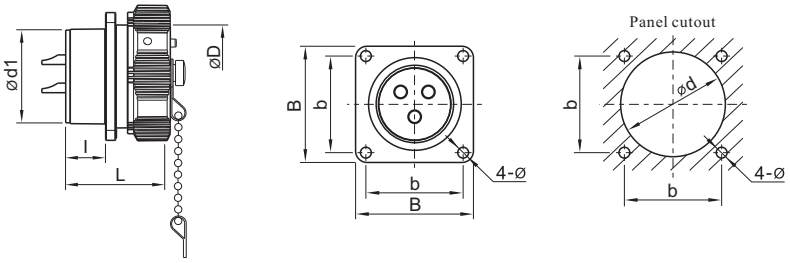
Square flange
Mate with WY12-TE



Solder contact spec

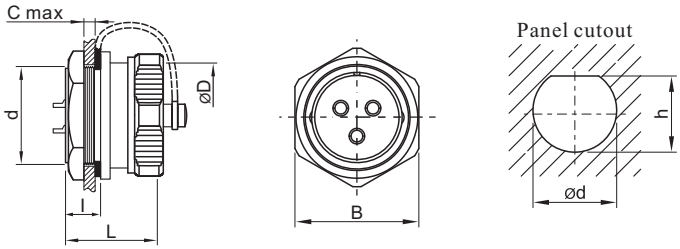
Number of contact	2	3	4	5	6	7	9
Male contact face view							
Rated current (A)	13	13	5	5	5	5	3
Contact diameter (mm)	Ø1.6X2	Ø1.6X3	Ø1X4	Ø1X5	Ø1X6	Ø1X7	Ø0.7X9
Rated voltage (AC.V)	250	250	200	180	125	125	125
Test voltage(AC.V) 1 min	1500	1500	1500	1000	1000	1000	1000
Contact resistance (m_{Ω})	2	2	5	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

Square flange panel receptacle: Z IP67



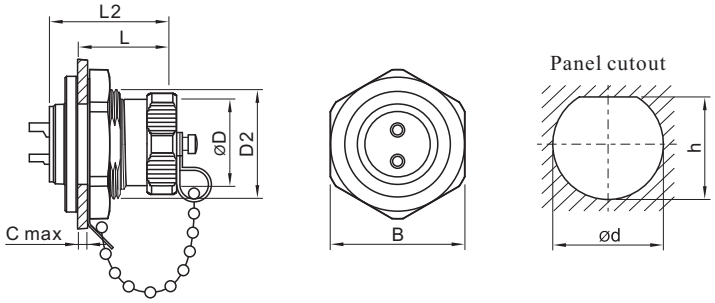
Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
d1	15.8	19.8	23.8	27.8	31.8	40	47.8	54.8
D	18	22	26	30	35	44	52	58
l	9.7	10	10	10	14.4	14.2	14.2	14
L	21.6	23	23	23	34	34	34	34
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
d	16.5	20.5	24.5	28.5	32.5	40.5	48.5	55.5
ø	3.2	3.2	3.2	3.2	3.5	4.5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

Round flange panel receptacle: ZM IP67



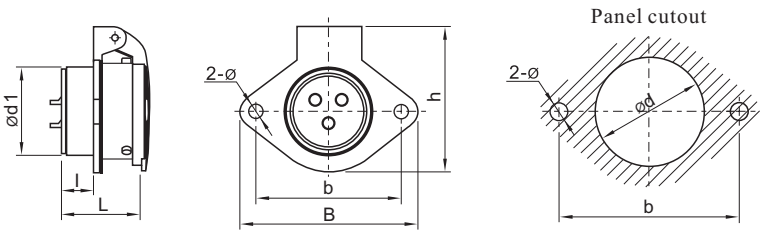
Dimension(mm)	WY16	WY20	WY24	WY28
d	M16X1	M20X1	M24X1	M28X1
D	18	22	26	30
C	5	5	5	5
l	9.7	9.9	10	10.2
L	21.6	23	23	23
B	21.2	25.5	29.2	33.3
ød	15.9	19.7	23.7	27.7
h	15.3	19.3	23.2	26.9

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

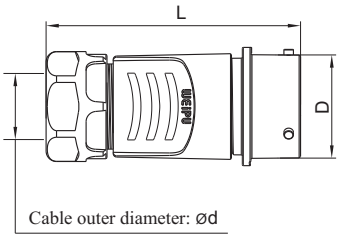
2-hole flange panel receptacle with cap: ZG IP67 (Cap IP44)



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 short back shell and clamping-nut：ZK IP67

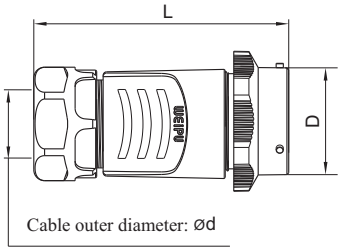
In-line shielded receptacle with short back shell and clamping-nut:ZKP IP67



Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
øD	18	22	26	30	35	44	52	58
L	50	60	64	70	84	90	110	127
ød	I:4-6.5 II:6-8	I:6-10 II:10-14	I:6-10 II:10-14	I:10-13 II:12-16	I:12-16 II:16-20	I:18-22 II:22-26	I:22-26 II:26-30	I:26-30 II:30-34

In-line receptacle with short back shell and clamping-nut B:ZKB IP67

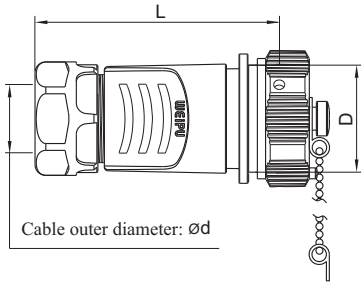
In-line shielded receptacle with short back shell and clamping-nut B:ZKPB IP67



Dimension(mm)	WY16	WY20	WY24	WY28
øD	18	22	26	30
L	50	60	64	70
ød	I:4-6.5 II:6-8	I:6-10 II:10-14	I: 6-10 II:10-14	I:10-13 II:12-16

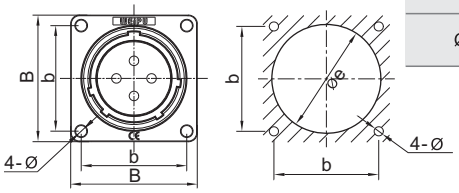
Square-flange receptacle with short back shell and clamping-nut:ZKF IP67

Shielded square-flange receptacle with short back shell and clamping-nut:ZKPF IP67

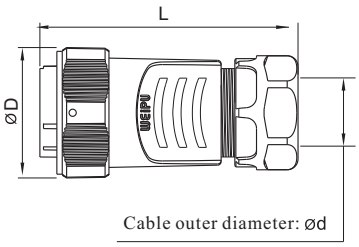


Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
D	18	22	26	30	35	44	52	58
L	50	60	64	70	84	90	110	127
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
e	18.5	23	26.5	31	35	43	51	58.2
ø	3.2	3.2	3.2	3.2	3.5	4.5	4.5	4.5
ød	I:4-6.5 II:6-8	I:6-10 II:10-14	I:6-10 II:10-14	I:10-13 II:12-16	I:12-16 II:16-20	I:18-22 II:22-26	I:22-26 II:26-30	I:26-30 II:30-34

Panel cutout

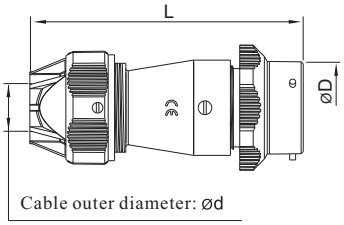


- Plug with short back shell and clamping-nut: TK IP67
  Shielded plug with short back shell and clamping-nut: TKP IP67



Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
øD	24.5	29.5	34	38	44.2	54	62	68.6
L	50	60	64	70	84	90	110	127
ød	I:4-6.5 II:6-8	I:6-10 II:10-14	I:6-10 II:10-14	I:10-13 II:12-16	I:12-16 II:16-20	I:18-22 II:22-26	I:22-26 II:26-30	I:26-30 II:30-34

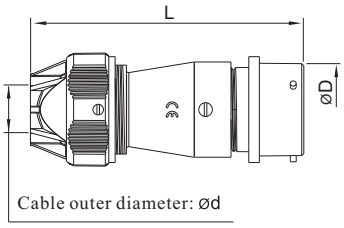
- In-line receptacle with clamping-nut B: ZEB IP67



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

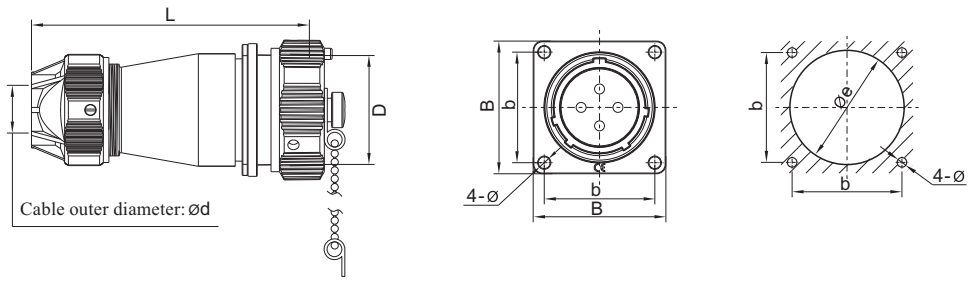
- In-line receptacle with clamping-nut: ZE IP67



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

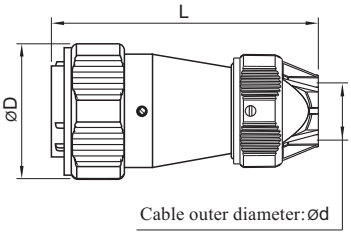
Optional cap size see P20

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



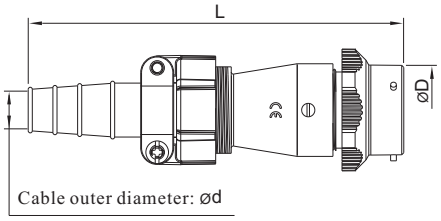
Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
D	18	22	26	30	35	44	52	58
L	55	63	66. 5	70	90.5	103.5	108	131.6
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
e	18.5	23	26.5	31	35	43	51	58.2
ød	I:3.5-5 II:5-6.5	9-10.5	9-10.5	10.5-12.5	I:13.5-15.5 II:15.5-17	I:15.5-17 II:18-20	I:18-20 II:24.5-26 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

Plug with metal clamping-nut: TE IP67



Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
D	24.5	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

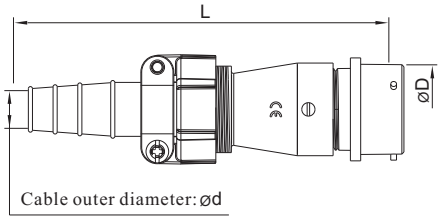
In-line receptacle with cable clamping plates B: ZIB IP65



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

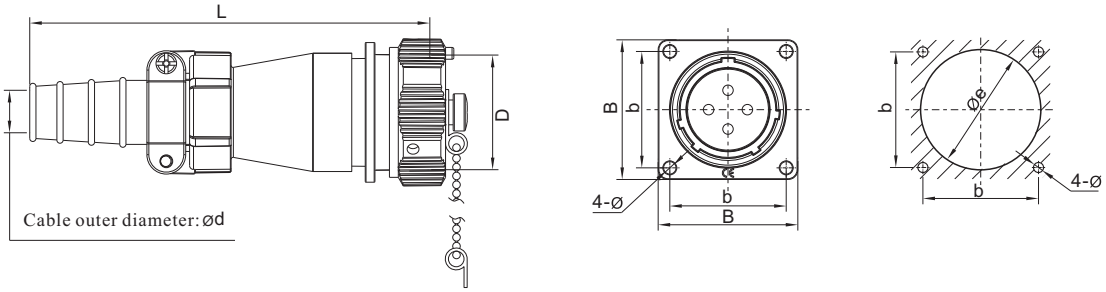
In-line receptacle with cable clamping plates: ZI IP65



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

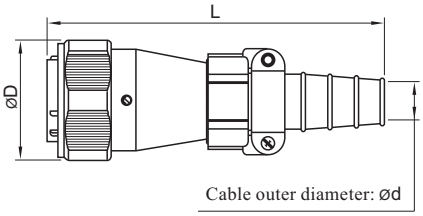
Optional cap size see P20

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



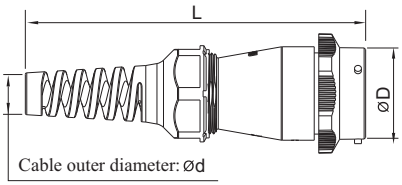
Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
D	18	22	26	30	35	44	52	58
L	73	88	92	101	119	130	137	165
b	20	22	26	30	32	40	48	52
B	26	29	32	36	42	50	58	64
e	18.5	23	26.5	31	35	43	51	58.2
ød	7-8	8-10.5	8-10. 5	11.5-13.6	13-15.6	15.5-18.8	I:15.8-18.8 II:24-28	24-28
ø	3.2	3.2	3.2	3.2	3.5	4.5	4.5	4.5

Plug with cable clamping plates: TI IP65



Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
D	24.5	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

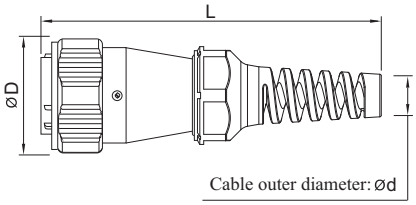
In-line receptacle with strain relief B: ZXB IP67



Dimension(mm)	WY28
D	30
L	110
Ød	6-8

It can be produced 28 modle,other models are customizabl

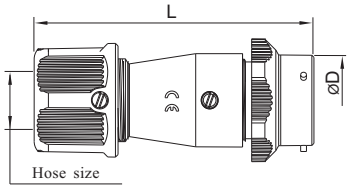
Plug with strain relief: TX IP67



Dimension(mm)	WY28
D	38.5
L	108
Ød	6-8

It can be produced 28 modle,other models are customizabl

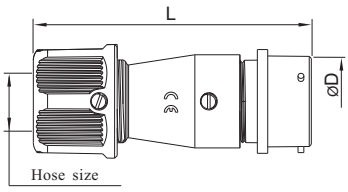
In-line receptacle for PA-hose: ZHB IP65



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

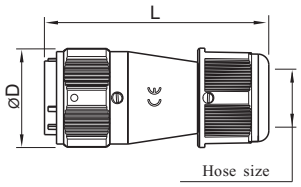
In-line receptacle for PA-hose : ZH P65



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

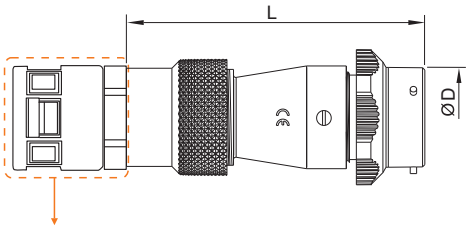
Optional cap size see P20

Plug for PA-hose: TH IP65



Dimension(mm)	WY16	WY20	WY24	WY28
D	24.5	29.6	34	38.5
L	51	62.5	65.5	68.5
Hose size	AD10	AD15.8	AD15.8	AD21.2

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

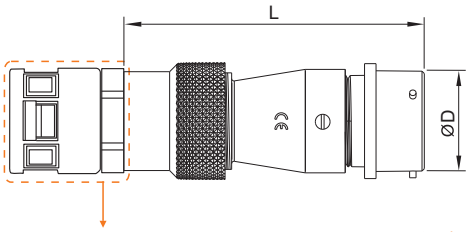


Optional plastic hose adapter

Optional cap size see P20

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

In-line receptacle for plastic-hose: ZB IP55

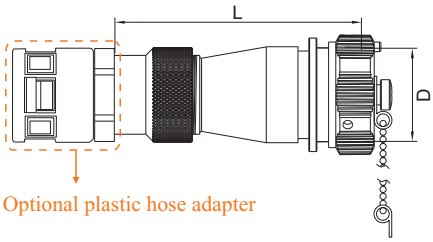


Optional plastic hose adapter

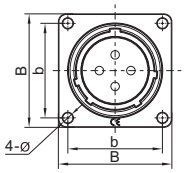
Optional cap size see P20

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

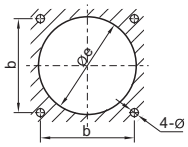
In-line receptacle for plug plastic-hose and square flange: ZBF IP55



Optional plastic hose adapter

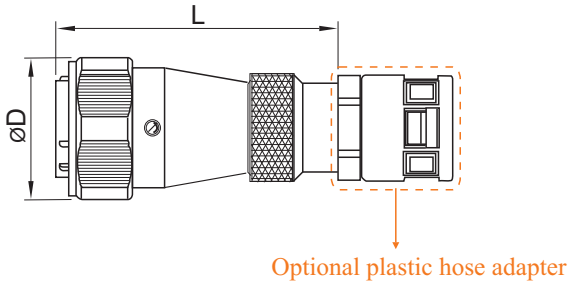


Panel cutout



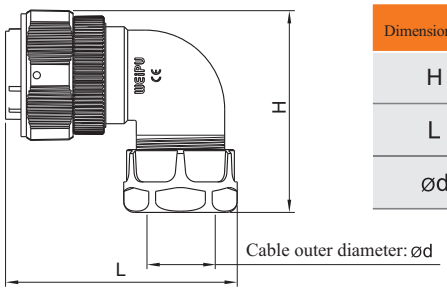
Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
D	18	22	26	30	35	44	52	58
L	54.5	64	67	73	86.5	95	104	120
Adapter size	PG7	PG11	PG11	PG16	PG21	PG29	I:PG29 II:PG36	PG36
Model of plastic hose adapter	WQG-PG7(B)	WQG-PG11(B)	WQG-PG11(B)	WQG-PG16(B)	WQG-PG21(B)	WQG-PG29(B)	WQG-PG29(B) WQG-PG36(B)	WQG-PG36(B)
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

Plug for plastic-hose: TB IP55



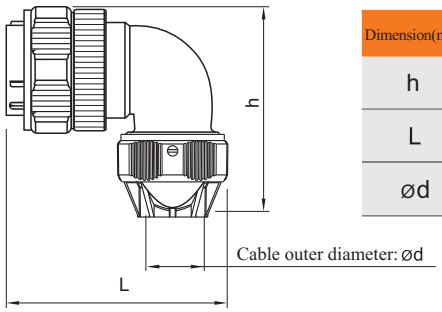
Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
D	24.5	29.5	34	38.5	44.5	54	62	68.5
L	54	62.5	66.5	72.5	87.5	95	105	118
Adapter size	PG7	PG11	PG11	PG16	PG21	PG29	I:PG29 II:PG36	PG36
model of plastic hose adapter	WQG-PG7(B)	WQG-PG11(B)	WQG-PG11(B)	WQG-PG16(B)	WQG-PG21(B)	WQG-PG29(B)	I: WQG-PG29(B) 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 with angled back shell and clamping-nut: TL IP67



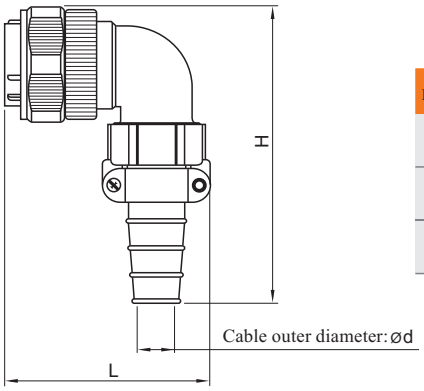
Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
H	43	53	53	57	67	78	91	100
L	47	56	62	65	81	93	102	106
ød	I: 4-6.5 II: 6-8	I: 6-10 II: 10-14	I: 6-10 II: 10-14	I: 10-13 II: 12-16	I: 12-16 II: 16-20	I: 18-22 II: 22-26	I: 22-26 II: 26-30	I: 26-30 II: 30-34

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



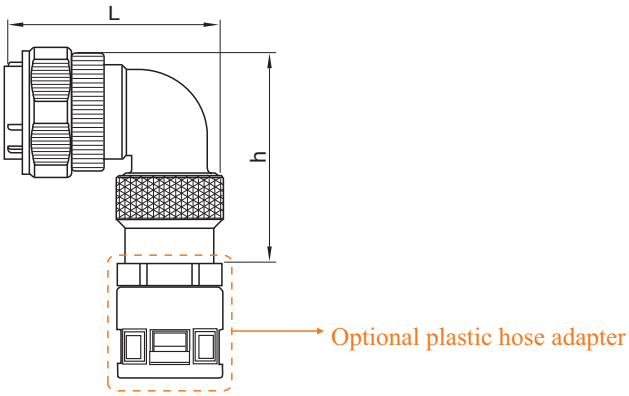
Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
h	43	53	54	58	72	88	103	110.5
L	48	57	59	61	84	90	97	109
ød	5-6.5	9-10.5	9-10.5	10.5-12.5	15.5-17	18-20	24.5-26	24.5-26

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



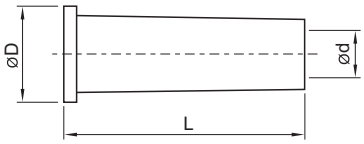
Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
H	60	80	80	93	103	118	137	140
L	49.5	56.5	58	61	82.5	90	98	108
ød	7-8	8-10.5	8-10.5	11.5-13.6	13-15.6	15.5-18.8	24-28	24-28

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



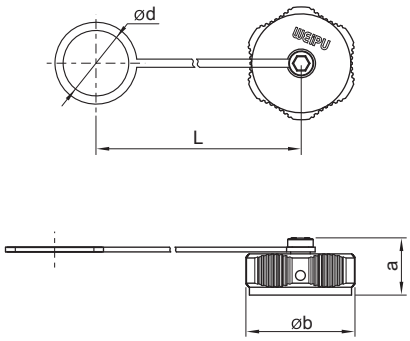
Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
h	44.5	53.5	55	61	70	83	91	96.5
L	47	56.5	57.5	61	82	88.5	95	106
Adapter size	PG7	PG11	PG11	PG16	PG21	PG29	PG29	PG36
model of plastic hose adapter	WQG-PG7(B)	WQG-PG11(B)	WQG-PG11(B)	WQG-PG16(B)	WQG-PG21(B)	WQG-PG29(B)	WQG-PG29(B)	WQG-PG36(B)
Hose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

PVC cable protection sleeve for WS series



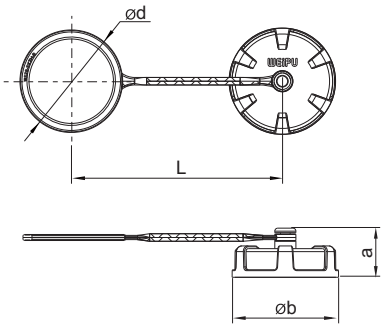
Dimension(mm)	WS16	WS20	WS24	WS28	WS32	WS40	WS48	WS55
D	12.5	16	16.5	19	25	30	30	36
L	30	38	38	38	51	53	53	59
d	6	6	6	7	13	17.8	17.8	23

Metal receptacle cover for WY series IP67

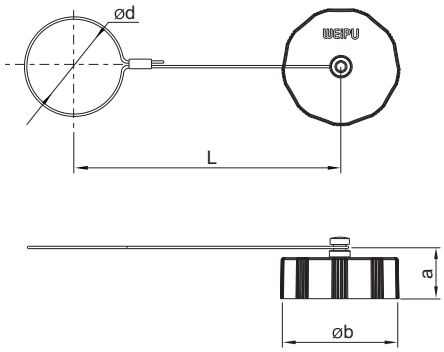


Dimension(mm)	WY16	WY20	WY24	WY28	WY32	WY40	WY48	WY55
a	13.5	14.5	14.5	14.5	17	17	17	17
b	20	29.5	34	38.5	44	54	62	68.5
d	16	20	24	28	32	40	48	55
L	55	60	65	70	90	100	110	120

Plastic receptacle cover for WS and WF series

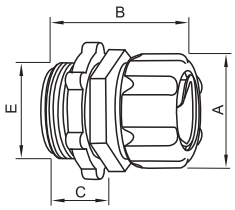


Dimension(mm)	WS/WF16	WS/WF20	WS/WF24	WS/WF28
a	15.1	15.8	16.3	16.3
b	22.1	26.7	30.9	35.3
d	22	26.7	30.9	34
L	55	60	63	70



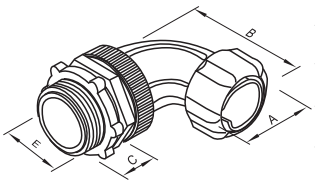
Dimension(mm)	WS/WF32	WS/WF40	WS/WF48	WS/WF55
a	20	20	20	20
b	39	48	55.5	62.5
d	32	40	48	55
L	90	100	110	120

Metal hose adapter



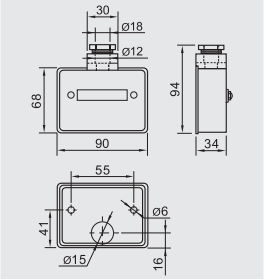
Dimension(mm) \ Part No.	WAB-16	WAB-20	WAB-24	WAB-30	WAB-36
A	19.6	24.8	29.1	35.7	41.8
B	26.7	33.3	37	37.9	41.5
C	9	14	15	16	17
E	16	20	24	30	36
hose size	1/4″	3/8″	1/2″	3/4″	1″
Thread	M16X1.5	M20X1.5	M24X1.5	M30X2	M36X2

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

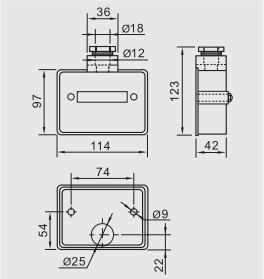
Junction-box



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

Junction-box

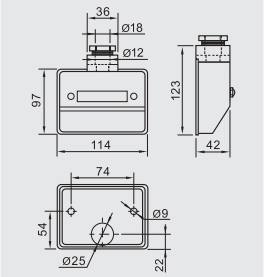
Bottom hole
Upper hole (with cable tightening fittings)
Electric Inlet
Min conducting wire section mm^2 1.5
Max conducting wire section mm^2 4



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

Junction-box

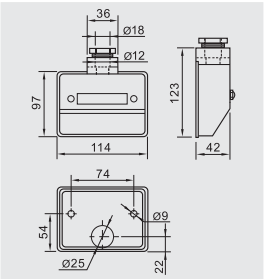
Bottom hole
Upper hole (with cable tightening fittings)
Electric Inlet
Min conducting wire section mm^2 2.5
Max conducting wire section mm^2 10



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

Junction-box

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

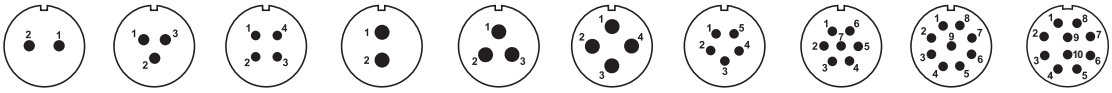


Rated A	Part No.TYP	Terminal P	Weight(g/pcs)
63A	6006	3P+N+⏚	248

Junction-box

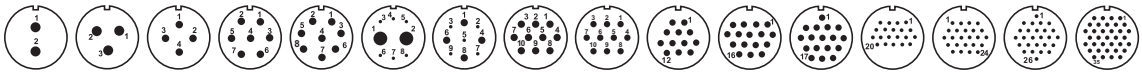
Bottom hole
Upper hole (with cable tightening fittings)
Electric Inlet
Conducting wire section mm^2 6

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 (mm²/AWG)	≤2/14	≤2/14	≤0.75/18	≤2/14	≤2/14	≤2/14	≤0.75/18	≤0.75/18	≤0.75/18	≤0.75/18

WS20,WF20,WY20	2	3	4	5	6	6B	7	8	9	12	15
Male contact face view											
Rated current (A)	25	25	25	10	5 25	5 30	10	10	5	5	5
Contact diameter(mm)	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 (mm²/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 (mm²/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 (mm²/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

Solder contact spec

WS32, WF32, WY32	4	6	8	8B	9	10	10B	11	12	13	19	41
Male contact face view												
Rated current (A)	50	10 50	10 50	10 50	80 10 25	10 25	25	25	25	10 25	10	5
Contact diameter(mm)	ø3.5X4	ø1.5X2 ø3.5X4	ø1.5X5 ø3.5X3	ø1.5X4 ø3.5X4	ø5.5X2 ø1.5X6 ø2.5X1	ø1.5X5 ø2.5X5	ø2.5X10	ø2.5X11	ø2.5X12	ø1.5X9 ø2.5X4	ø1.5X9	ø1X41
Rated voltage (AC.V)	500	500	500	500	400	500	500	500	500	500	500	48
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1200	1500	1500	1500	1500	1500	1500	1500
Contact resistance(mΩ)	0.5	2.5 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	5
Insulation resistance (MΩ)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Wire size(mm²/AWG)	≤10/7	≤1.5/16 ≤10/7	≤1.5/16 ≤10/7	≤1.5/16 ≤10/7	≤16/5 ≤1.5/16 ≤4/12	≤1.5/16 ≤4/12	≤4/12	≤4/12	≤4/12	≤1.5/16 ≤4/12	≤1.5/16	≤0.75/18

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(mm²/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(mm²/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(mm²/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

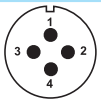
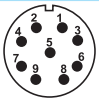
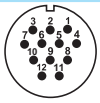
Friendly reminder: Crimp contacts need to be purchased separately.
For details, please refer to pages P22-03/04/05

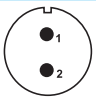
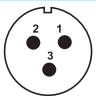
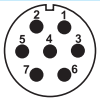
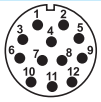
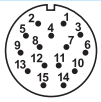
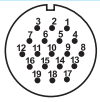
SF16, SA16, SP17, SY17 WS16, WF16, WY16	1	2	3	4
Male contact face view				
Rated current (A)	50	10	10	5
Contact diameter(mm)	Ø3.5X1	Ø1.5X2	Ø1.5X3	Ø1X4
Rated voltage (AC.V)	500	500	500	400
Test voltage(AC.V) 1 min	1500	1500	1500	1200
Contact resistance (mΩ)	0.5	2.5	2.5	5
Insulation resistance (MΩ)	2000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

Note: For straight connector only

WK20,SF20, SA20, SP21, SY21 WS20,WF20, WY20, WP20	1	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

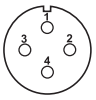
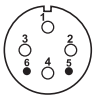
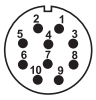
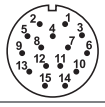
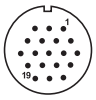
Note: For straight connector only

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 Ø1.5X 2	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

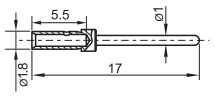
WS48，WF48，WY48	31	42
Male contact face view		
Rated current (A)	25	10
Contact diameter(mm)	Ø2.5X31	Ø1.5X42
Rated voltage (AC.V)	500	500
Test voltage(AC.V) 1 min	1500	1500
Contact resistance (mΩ)	1	2.5
Insulation resistance (MΩ)	2000	2000

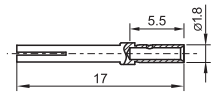
WS55，WF55，WY55	38	61
Male contact face view		
Rated current (A)	25	10
Contact diameter(mm)	Ø2.5X38	Ø1.5X61
Rated voltage (AC.V)	500	500
Test voltage(AC.V) 1 min	1500	1500
Contact resistance (mΩ)	1	2.5
Insulation resistance (MΩ)	2000	2000

Crimp contact

5A Crimp contact

※ Contact diameter: Ø1
※ Material: Brass with gold plating
※ Contact resistance: 5mΩ





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

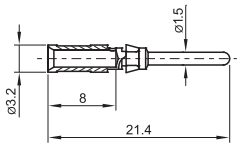
5A Female crimp contact

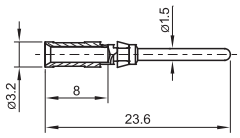
For SF, SA, SP, SY, WP, WS/WF/WY16-28

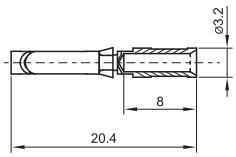
Wire size		Stripping length	Female crimp contact p/n	Crimping tool p/n	Removal tool p/n
0.20-0.52mm^2	AWG 24-20	5.5mm	YK1-17-0.52AU	CTW-0.14/4	RT-1.0

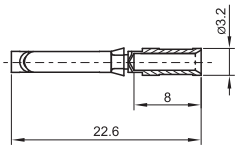
10A Crimp contact

※ Contact diameter: Ø1.5
※ Material: Brass with gold plating
※ Contact resistance: 2.5mΩ









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

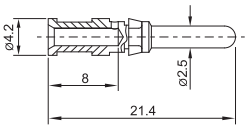
10A Female crimp contact

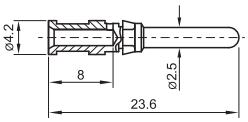
For WS/WF/WY32-55

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

※ Contact diameter: Ø2.5
※ Material: Brass with gold plating
※ Contact resistance:1mΩ





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

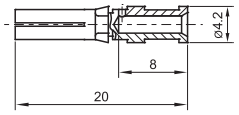
For WS/WF/WY32-55

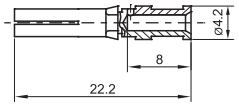
Wire size		Stripping length	Male crimp contact p/n	Crimping tool p/n	Removal tool p/n
0.75-1.0mm^2	AWG 18	8mm	YJ2.5-23.6-1.0AU	CTW-0.14/4	RT-2.5
1.5mm^2	AWG 16	8mm	YJ2.5-23.6-1.5AU	CTW-0.14/4	RT-2.5
2.5mm^2	AWG 14	8mm	YJ2.5-23.6-2.5AU	CTW-0.14/4	RT-2.5
4.0mm^2	AWG 12	8mm	YJ2.5-23.6-4.0AU	CTW-0.14/4	RT-2.5

Crimp contact

25A Crimp contact

※ Contact diameter: Ø2.5
※ Material: Brass with gold plating
※ Contact resistance: 1m Ω





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
0.75-1.0mm²	AWG 18	8mm	YK2.5-20-1.0AU	CTW-0.14/4	RT-2.5
1.5mm²	AWG 16	8mm	YK2.5-20-1.5AU	CTW-0.14/4	RT-2.5
2.5mm²	AWG 14	8mm	YK2.5-20-2.5AU	CTW-0.14/4	RT-2.5
4.0mm²	AWG 12	8mm	YK2.5-20-4.0AU	CTW-0.14/4	RT-2.5

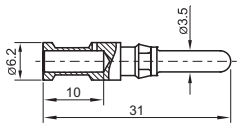
25A Female crimp contact

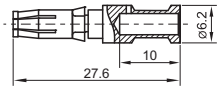
For WS/WF/WY32-55

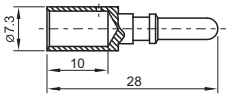
Wire size		Stripping length	Female crimp contact p/n	Crimping tool p/n	Removal tool p/n
0.75-1.0mm²	AWG 18	8mm	YK2.5-22.2-1.0AU	CTW-0.14/4	RT-2.5
1.5mm²	AWG 16	8mm	YK2.5-22.2-1.5AU	CTW-0.14/4	RT-2.5
2.5mm²	AWG 14	8mm	YK2.5-22.2-2.5AU	CTW-0.14/4	RT-2.5
4.0mm²	AWG 12	8mm	YK2.5-22.2-4.0AU	CTW-0.14/4	RT-2.5

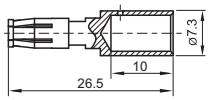
50A Crimp contact

※ Contact diameter: Ø3.5
※ Material: copper
※ Contact resistance: 0.5m Ω









50A Male crimp contact

For WS/WF/WY32-55

Wire size		Stripping length	Male crimp contact p/n	Crimping tool p/n	Removal tool p/n
1.5mm²	AWG 16	10mm	YJ3.5-31-1.5AU	CT-0.14/4	RT-3.5
2.5mm²	AWG 14	10mm	YJ3.5-31-2.5AU	CT-0.14/4	RT-3.5
4.0mm²	AWG 12	10mm	YJ3.5-31-4.0AU	CT-0.14/4	RT-3.5
6.0mm²	AWG 10	10mm	YJ3.5-31-6.0AU	CT-4/10	RT-3.5
10.0mm²	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
1.5mm²	AWG 16	10mm	YK3.5-27.6-1.5AU	CT-0.14/4	RT-3.5
2.5mm²	AWG 14	10mm	YK3.5-27.6-2.5AU	CT-0.14/4	RT-3.5
4.0mm²	AWG 12	10mm	YK3.5-27.6-4.0AU	CT-0.14/4	RT-3.5
6.0mm²	AWG 10	10mm	YK3.5-27.6-6.0AU	CT-4/10	RT-3.5
10.0mm²	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
4.0mm²	AWG 12	10mm	YJ3.5-28-4.0AU	CT-4/10	RT-3.5
6.0mm²	AWG 10	10mm	YJ3.5-28-6.0AU	CT-4/10	RT-3.5
10mm²	AWG 7	10mm	YJ3.5-28-10.0AU	CT-4/10	RT-3.5
16mm²	AWG 5	10mm	YJ3.5-28-16.0AU	YQK-70	RT-3.5

50A Female crimp contact

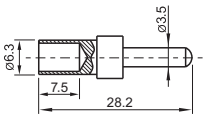
For 2 & 3 pins of SP29, SY29, SA28, WS/WF/WY28

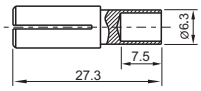
Wire size		Stripping length	Female crimp contact p/n	Crimping tool p/n	Removal tool p/n
4.0mm²	AWG 12	10mm	YK3.5-26.5-4.0AU	CT-4/10	RT-3.5
6.0mm²	AWG 10	10mm	YK3.5-26.5-6.0AU	CT-4/10	RT-3.5
10mm²	AWG 7	10mm	YK3.5-26.5-10.0AU	CT-4/10	RT-3.5
16mm²	AWG 5	10mm	YK3.5-26.5-16.0AU	YQK-70	RT-3.5

Crimp contact

50A Crimp contact

※ Contact diameter: Ø3.5
※ Material:brass with silver plating
※ Contact resistance:0.5mΩ





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

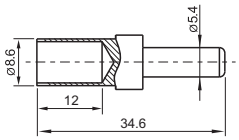
50A Female crimp contact

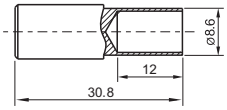
For WS/WF/WY16/SY17/SP17/SA16/SF16

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

100A Crimp contact

※ Contact diameter: Ø5.5
※ Material:brass with silver plating
※ Contact resistance:0.3mΩ





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

CTW-0.14/4

CT-4/10

CT-0.14/4

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

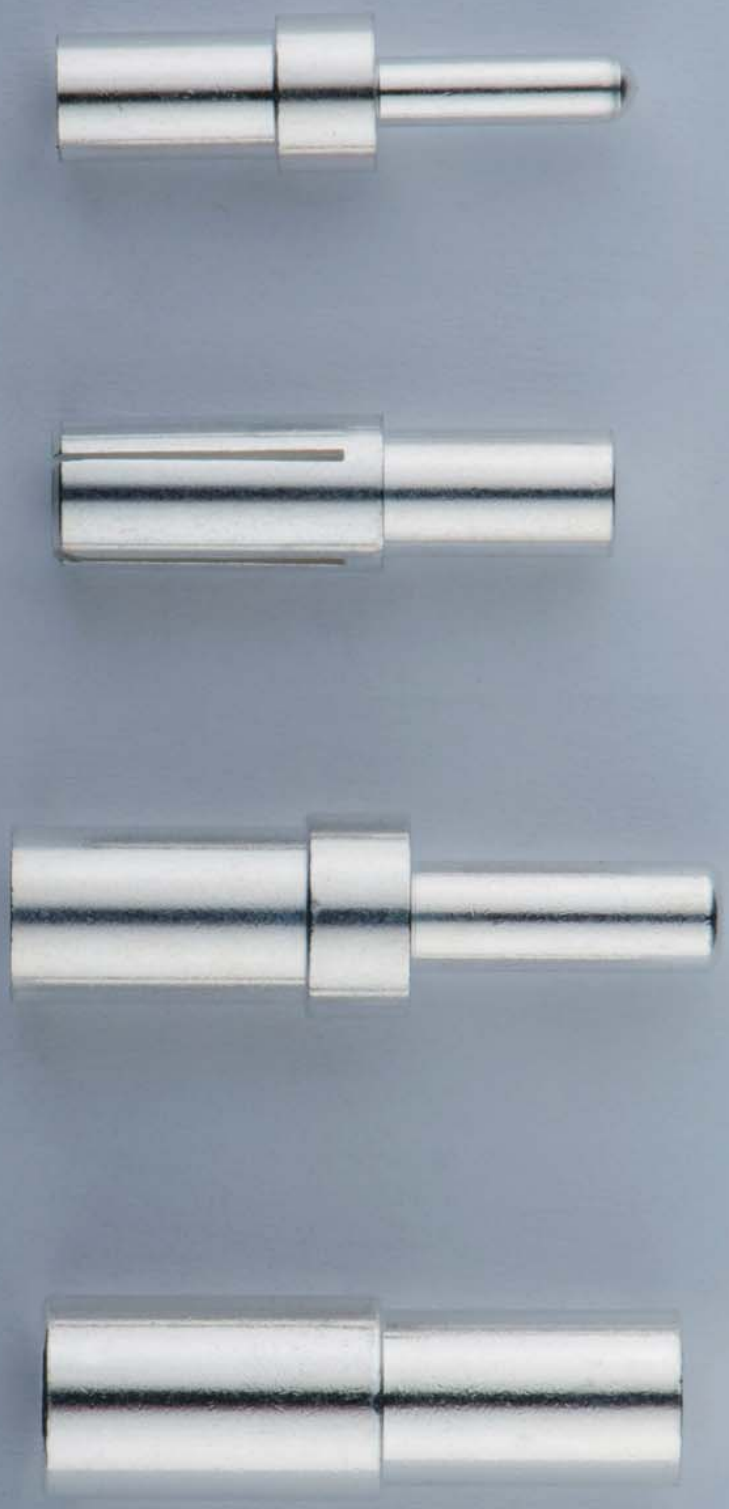
RT-1.0

RT-1.5

RT-2.5

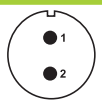
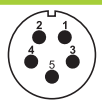
RT-3.5

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



Screw contact spec

SF20, SA20, WS20, WF20, WY20	2	3	4
Male contact face view			
Rated current (A)	10	10	10
Contact diameter(mm)	ø2.5X2	ø2.5X3	ø2.5X4
Rated voltage (AC.V)	500	500	500
Test voltage(AC.V) 1 min	1500	1500	1500
Contact resistance (mΩ)	1	1	1
Wire size (mm^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)	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 (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)	ø2.5X2	ø2.5X3	ø2.5X4
Rated voltage (AC.V)	500	500	500
Test voltage(AC.V) 1 min	1500	1500	1500
Contact resistance (mΩ)	1	1	1
Wire size (mm^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)	Ø3.5X2	Ø3.5X3	Ø2.5X4	Ø2.5X7	Ø2.5X8	Ø2.5X10
Rated voltage (AC.V)	500	500	500	500	500	500
Test voltage(AC.V) 1 min	1500	1500	1500	1500	1500	1500
Contact resistance (mΩ)	0.5	0.5	1	1	1	1
Wire size (mm^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 (mm²/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 (mm²/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 (mm²/AWG)	Min: 0.5/20 Max: 6/10	Min: 0.5/20 Max: 1.5/15

Angled Screw contact spec

WK20,SF20, SA20, WS20, WF20, WY20,SP21,SY21	2		3	
Male contact face view				
Rated current (A)	30		30	
Contact diameter(mm)	Ø3X2		Ø3X3	
Rated voltage (AC.V)	WK20, S F20, S A20 WS20, WF20, WY20	SP21,SY21	WK20, S F20, S A20 WS20, WF20, WY20	SP21,SY21
	500	800	500	800
Test voltage(AC.V) 1 min	1500	2800	1500	2800
Contact resistance (mΩ)	1		1	
Wire size (mm² / AWG)	Min: 0.75/18 Max: 4/12		Min: 0.75/18 Max: 4/12	

WK24,SF24, SA24, WS24, WF24, WY24,SP25,SY25	4	
Male contact face view		
Rated current (A)	30	
Contact diameter(mm)	Ø3X4	
Rated voltage (AC.V)	WK24, S F24, S A24 WS24, WF24, WY24	SP25,SY25
	500	800
Test voltage(AC.V) 1 min	1500	2800
Contact resistance (mΩ)	1	
Wire size (mm² / AWG)	Min: 0.75/18 Max: 4/12	

WK28,SF28, SA28, WS28, WF28, WY28,SP29,SY29	2		3		4		5	
Male contact face view								
Rated current (A)	50		50		40		30	
Contact diameter(mm)	Ø4X2		Ø4X3		Ø3.5X4		Ø3X5	
Rated voltage (AC.V)	WK28, S F28 S A28, WS28 WF28, WY28	SP29 SY29	WK28, S F28 S A28, WS28 WF28, WY28	SP29 SY29	WK28, S F28 S A28, WS28 WF28, WY28	SP29 SY29	WK28, S F28 S A28, WS28 WF28, WY28	SP29 SY29
	500	800	500	800	500	800	500	800
Test voltage(AC.V) 1 min	1500	2800	1500	2800	1500	2800	1500	2800
Contact resistance (mΩ)	0.5		0.5		0.5		1	
Wire size (mm² / AWG)	Min: 4/11 Max: 10/8		Min: 4/11 Max: 10/8		Min: 2.5/13 Max: 6/10		Min: 0.75/18 Max: 4/12	

Note: 1. WS/WF/WY series → **only for models** Z, ZG, ZM, ZMQ, TK, ZK, ZKB, ZKF.

2. WK series → **only for models** Z, ZMQ, ZM, ZE, ZEP, TE, TEP.

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