

ChangZhou Xinsheng Electronics Co.,Ltd.



Connector Selection Guide

Product | XINSHENG

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Push pull self-locking connector / Complex mixed
connector / Customized professional harness manufacturer

CONNECTOR, also known domestically as CONNECTOR plug and socket, generally refers to the CONNECTOR, which connects two active devices to transmit current or signals. It is widely used in aerospace, national defense and other military systems

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COMPANY PROFILE



ChangZhou Xinsheng Electronics Co.,Ltd. is a high-precision connector manufacturer integrating R & D, production and sales. The company has strong technical force, sophisticated processing equipment and perfect inspection equipment.

Since its establishment, the company has been committed to the R & D and production of high-quality precision connectors and the processing of harnesses and cables. Pilotage products are diversified, with superior performance and reliable quality, reaching the international advanced level At the same time, the product has good compatibility and can be compatible with most products in the world. The products are widely used in the fields of medical equipment, mechanical equipment, audio and video, detection and measurement, communication electronics, military industry, aerospace, artificial intelligence, automation equipment, ships, automobiles and power supplies.

Product customization service

At the same time, the company provides customized services for special industry applications and specific needs, and provides customers with cost-effective professional connector application solutions and technical service support.

COMPANY ADVANTAGES



A connector is a coupling device that connects electrical terminals to form a circuit. With the help of connectors, wires, cables, printed circuit boards and electronic components can be connected. We design and manufacture a wide range of connector product combinations that reliably transmit data, power and signals in the most demanding environments and in the most extreme use cases.

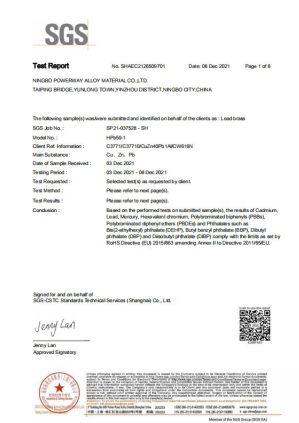
Our connectors can achieve higher performance while reducing application scale and power consumption. Audio and video connectors can provide enhanced circuit board retention and EMI shielding. The push-pull self-locking connector no longer needs to be welded; Plug in connections allow termination without tools. In our connector portfolio, we offer powerful solutions to improve connectivity of critical systems.



Connector application field

Connectors are widely used in dental instruments, scanning instruments, pacemakers, hearing aids, electrical surgery equipment, sensors, beauty instruments and other medical equipment. The sealing characteristics of the pilot connector can be used in humid environment, and the flexible sealing tube and sealing ring can be used in harsh environment. Stainless steel material can be sterilized at high temperature and has a long service life. Connectors provide reliable connection solutions for industrial cameras and control equipment, audio equipment, wireless microphones and live broadcast microwave transmission, studio, film, television, radio broadcasting equipment, drama, music and other types of applications.

The connector provides complete emc/emi shielding products for various types of equipment, such as data communication equipment, headphones, antennas and microphones, speakers, stage lights, LED displays, electromechanical engineering, precision instruments, etc. Our company has obtained the patent certificate of self-developed products. The company has passed gjb91c-2019 quality management system certification, UL certification, CE certification, ROHS certification and ISO9001 quality management system certification, providing strong technical and service guarantee for your choice.



Quality team

We have an experienced, professional and reliable core management and technical team, which can provide a complete set of connector harness scheme design and model selection.

Pre sales + after sales

Our team has excellent technical consulting ability, can provide customers with good pre-sales and after-sales services, provide customers with high-quality products and fast delivery time, has good market competitiveness, and has won the support and trust of many customers.

Complete certificates

All plug-in and self-locking optical and electrical connectors and cable components designed, manufactured and sold by pilot precision have passed ISO9001 quality standard certification, and have EN71, reach, ROHS, etc.

Personalized scheme

We are unremittingly committed to providing customers with innovative and personalized solutions, incorporating the requirements of customers' professional connection solutions into the project management system. The pilot customized connectors and cable components have been drawn by CAD software, and have been approved by customers before the formal th production.

Introduction to LH01 series connector:

The push-pull self-locking system is famous for its simple and fast plug-in method, which is very effective in anti vibration / impact; It can effectively prevent the disconnection caused by pulling the cable. It is safe and reliable to use, and is conducive to plugging in and out in a very limited space.

LH01 series circular connector adopts this push-pull self-locking structure. This product is widely used in communication, electronics, medical treatment, instruments and meters and other equipment to realize the connection of electrical signals, especially for the connection of electrical signals that need to be frequently connected to instruments and meters and equipment that need to be separated or shielded.

Product features:

1. Compact structure, compact and beautiful;
2. Push-pull self-locking structure, simple and fast connection and separation;
3. Exquisite self-locking device ensures the reliability of connection;
4. Reasonable key position design, with blind insertion function and multi key position transformation;
5. All metal structure can effectively play the role of screen.

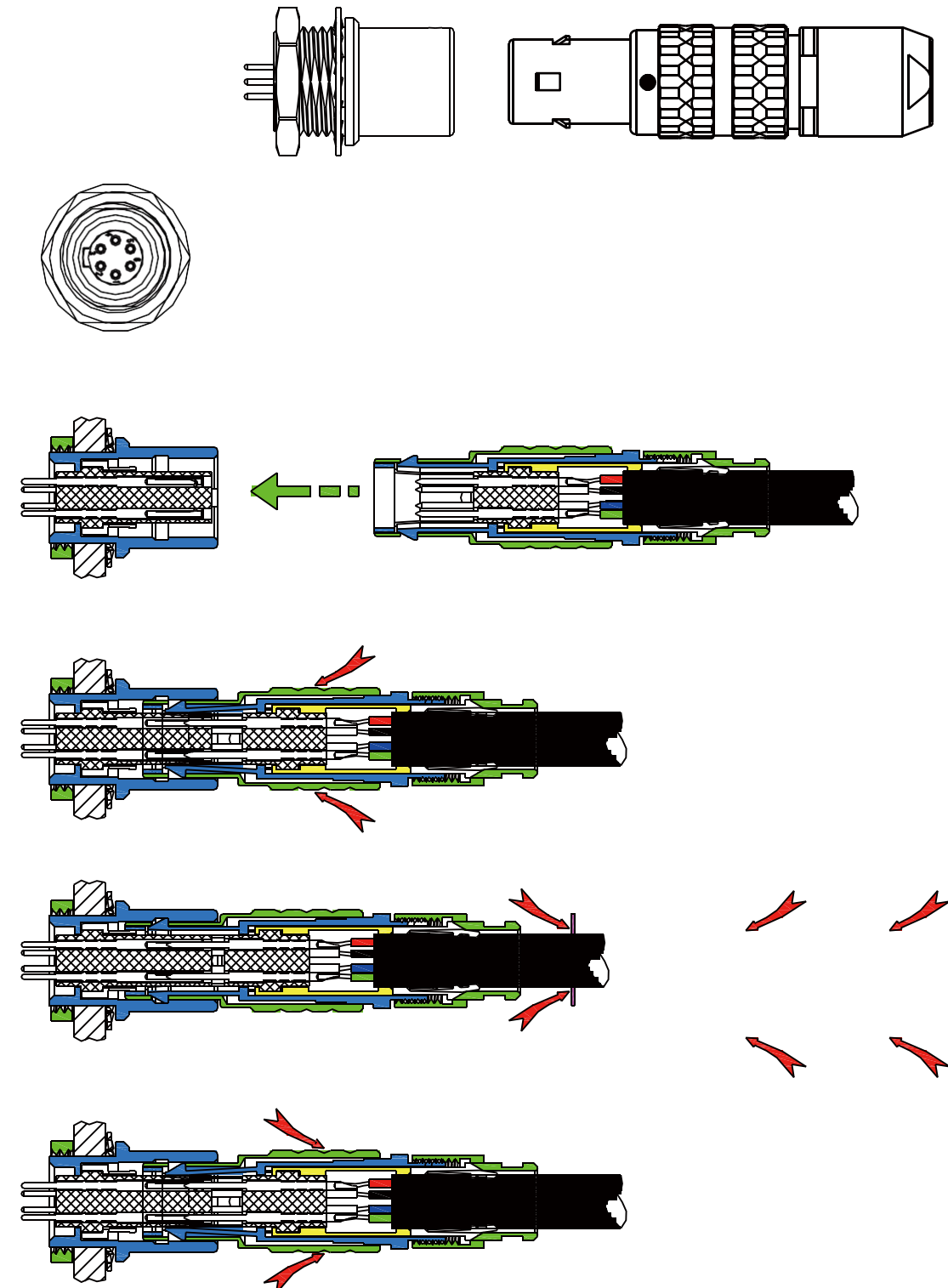
Multiple choices:

1. According to the connection mode, there are welding, plate connection and other connection modes;
2. According to the installation method, it can be divided into internal installation and external installation. Internal and external installation;
3. There are metals and plastics by material.

Material Science:

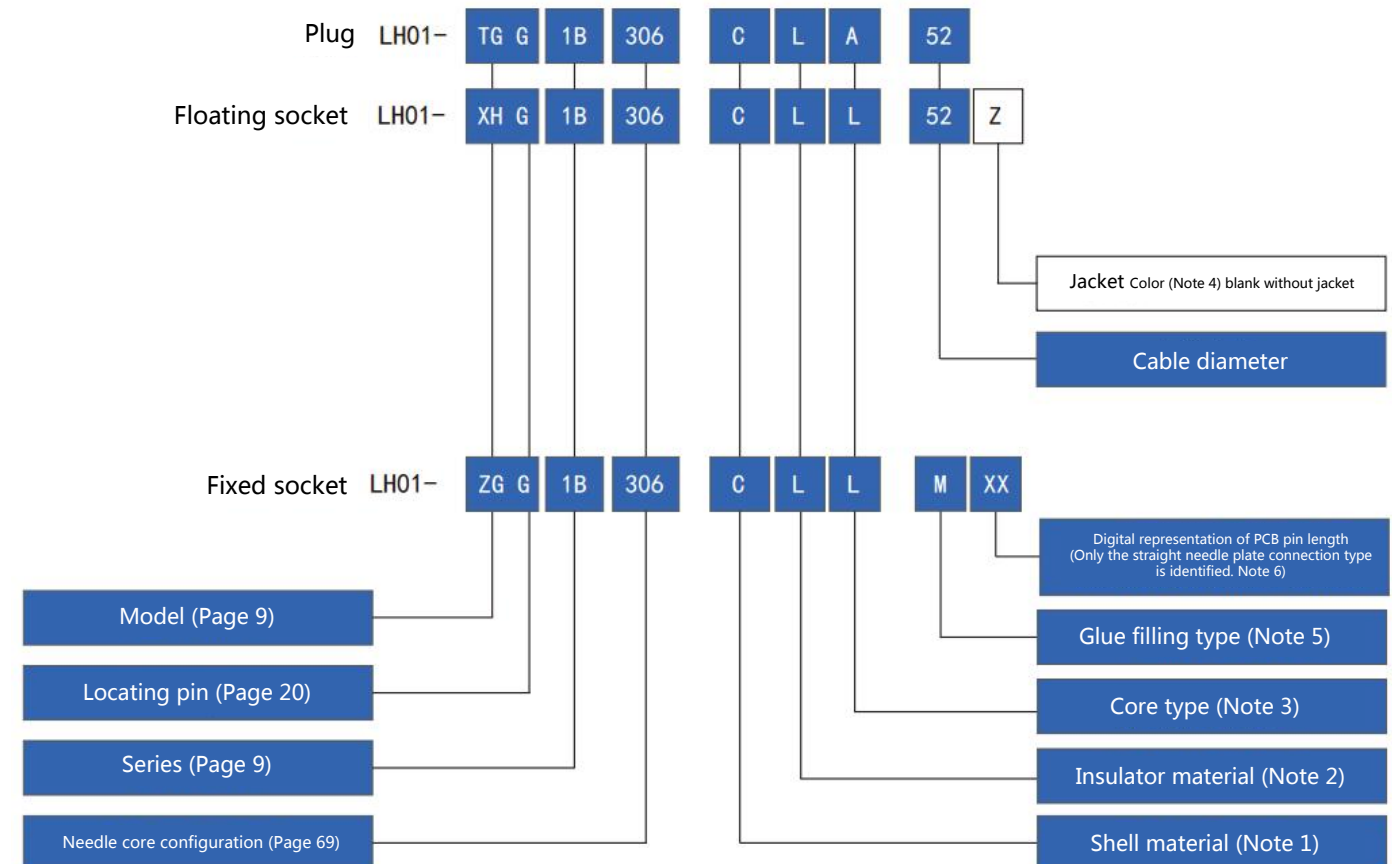
1. Generally, it is made of copper alloy. In special cases, it is made of stainless steel. Nickel plating or sand chromium plating or black chromium plating on the surface of copper alloy;
2. Insulator materials: PA66, PSU, PPSU, PPS, peek, etc;
3. Contact body: copper alloy processing, surface gold plating treatment.

Product outline legend:





Product numbering rules:



Note 1:

C= Chrome plated brass
 K= Black chrome plated brass
 N= Nickel plated brass
 T= Stainless steel
 L= Aluminum alloy anodizing
 H= Chrome plated rubber coated brass (Applicable to ZPG and ZXG printed board angle socket)

Note 2:

L=PPS
 G=PEEK
 T=PTFE
 R=PPSU

Note 3:

A= Welding pin
 L= Welding socket
 N= Plate to straight jack
 D= Board connected straight pin
 V= Plate bending socket

Note 4:

Z= Black
 G= Grey
 A= Blue
 R= Red
 J= Yellow
 V= Green

Note 5:

W= Silicone seal
 M= Epoxy resin seal (Seal type only)

Note 6:

25=2.5mm
 30=3mm
 35=3.5mm
 40=4mm



B Series Main features

- ① Safe push-pull self-locking system
- ② Multi core type 2-47 cores
- ③ Welding and PCB pin cores (straight and angled)
- ④ High density installation, space saving
- ⑤ Multiple key positions are selected to avoid mixed insertion between similar connectors
- ⑥ Locating pin system (G is standard locating pin) is used for connector alignment
- ⑦ 360 ° shielding provides comprehensive EMC protection (anti electromagnetic interference)

Example of product number:

Straight plug with clamp

TGG. 1B. 306.cll52= straight plug, locating pin (g), with clamp, 1b series, multi-core type, 6-core, yellow mace chrome plated shell, PPS insulator, welded male pin core, suitable for cables with an outer diameter of 5.0mm.

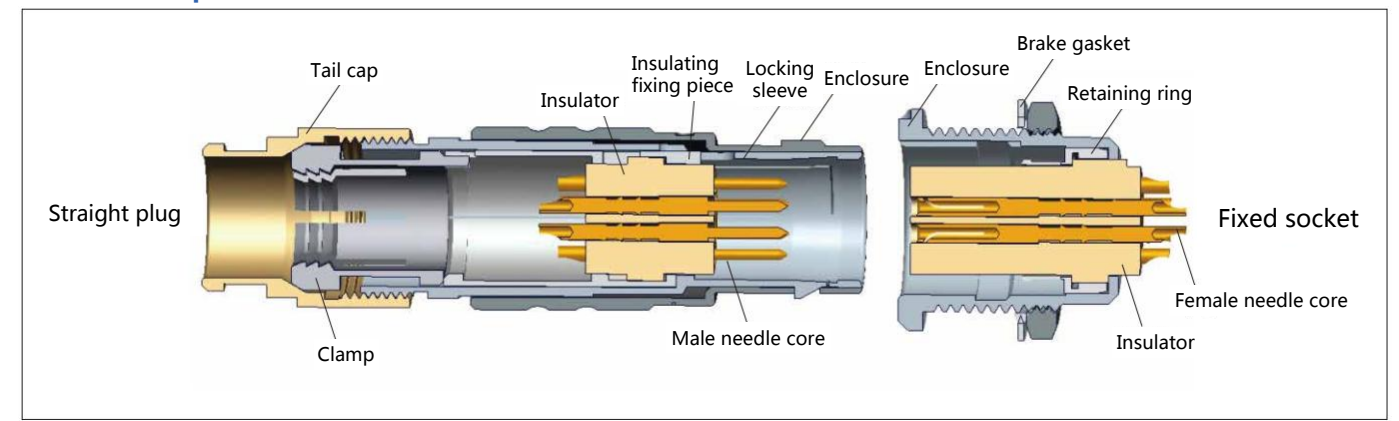
Floating socket

XHG. 1B. 306.cll52z= floating socket, locating pin (g), with clamp, 1b series, multi-core type, 6-core, brass chrome plated shell, PPS insulator, welded female pin core, suitable for 5.0mm outer diameter cable, with black sheath.

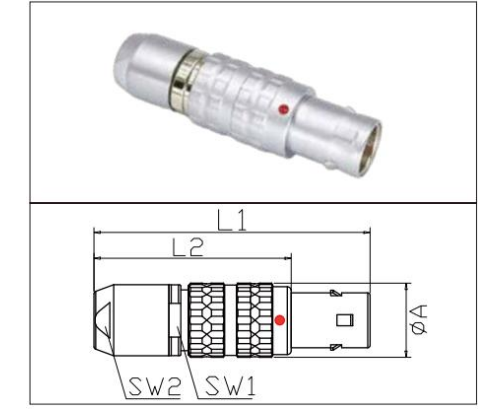
Fixed socket

ZGG. 1B. 306.cll= fixed socket, nut fixed, locating pin (g), 1b series, multi-core type, 6-core, brass chrome plated housing, PPS insulator, welded female pin core.

Product profile:

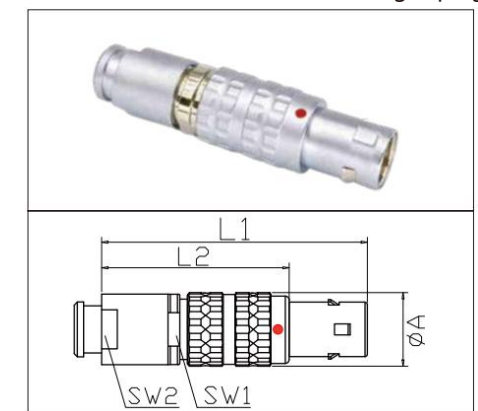


TGG Standard universal straight plug, locating pin (g) or locating pin (a---m and R), cable clamp



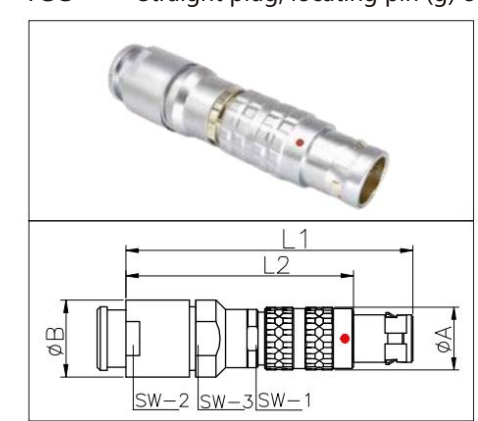
Project		Dimension (mm)				
Series	Model	A	L1	L2	SW1	SW2
00B	TGG	6.5	27	19	5	5
0B	TGG	9.5	36	25	8	7
1B	TGG	12	42	31	10	9
2B	TGG	15	48	36	13	13
3B	TGG	18	57	42	16	15
4B	TGG	25	74	56	21	20

TGG Standard universal straight plug, locating pin (g) or locating pin (a - M), cable clamp and sheathed tail cap



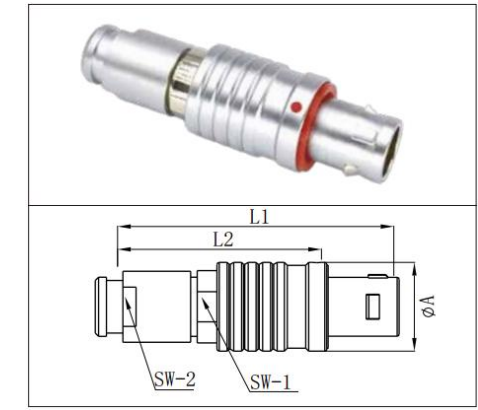
Project		Dimension (mm)				
Series	Model	A	L1	L2	SW1	SW2
00B	TGG	6.5	27	19	5.5	6
0B	TGG	9.5	35	25	8	7
1B	TGG	12	42	31	10	9
2B	TGG	15	48	36	13	13
3B	TGG	18	57	42	16	15
4B	TGG	25	70	52	21	20

TGG Straight plug, locating pin (g) or locating pin (a - M), cable clamp and oversized cable clamp



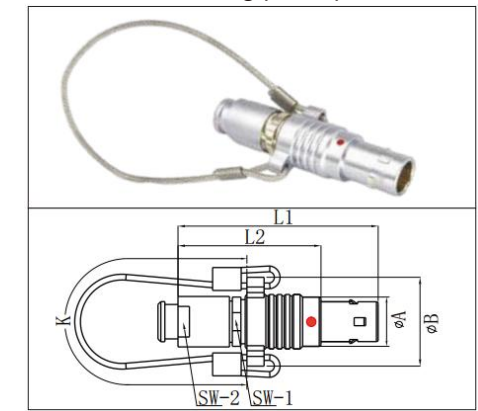
Project		Dimension (mm)						
Series	Model	A	B	L1	L2	SW1	SW2	SW3
0B	TGG	9.5	11	47	37	8	9	10
1B	TGG	12	17	53	42	10	13	13
2B	TGG	15	22	60	48	13	15	16

TEG Straight plug, locating pin (g) or locating pin (a - M), cable clamp, front sealing and sheathed tail cap (waterproof grade is IP54 when plugging)



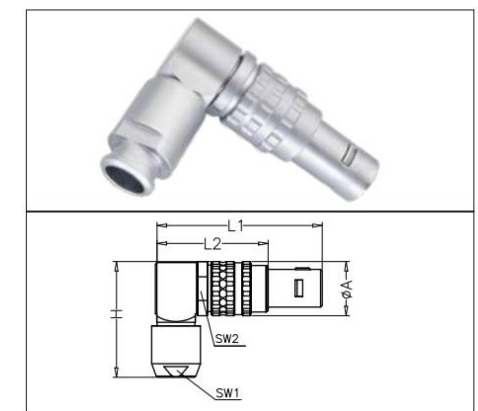
Project		Dimension (mm)				
Series	Model	A	L1	L2	SW1	SW2
0B	TEG	11	34.5	24.5	8	7
1B	TEG	13.5	42	33	10	9
2B	TEG	16.5	48	36	13	13
3B	TEG	19	56	41	16	15
0B	TEG	11	34.5	24.5	8	7
1B	TEG	13.5	42	33	10	9

TNG Straight plug, locating pin (g) or locating pin (a - M and R), cable clamp and tail cap with protective sleeve (unlocking pull rope)



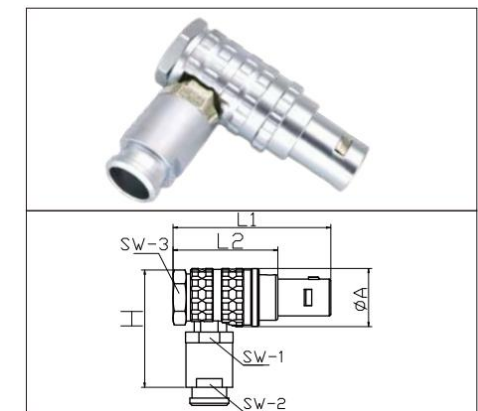
Project		Dimension (mm)						
Series	Model	A	B	L1	L2	K	SW1	SW2
0B	TNG	9.5	15.5	36	26	140	8	7
1B	TNG	12	18	43	32	140	10	9
2B	TNG	15	21	49	37	160	13	13
3B	TNG	18	25	58	43	190	16	15
4B	TNG	25	35.2	74	56	230	21	20

TSG Adjustable angle plug, locating pin (g) or locating pin (a - M), cable clamp



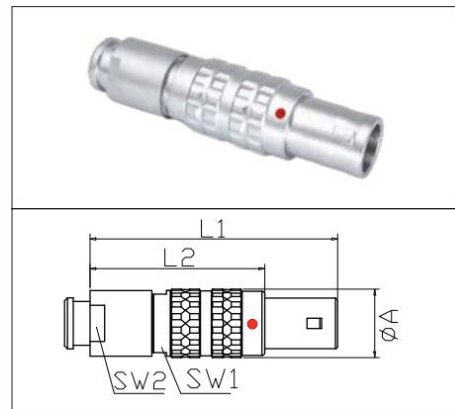
Project		Dimension (mm)					
Series	Model	A	H	L1	L2	SW1	SW2
00B	TSG	8	18.1	24.8	16.8	5	7
0B	TSG	10	22.4	30.3	20.3	7	9
1B	TSG	12	26.4	36.5	25.5	9	11
2B	TSG	16.5	34.5	44	32	12	15

THG 90 degree angle plug, locating pin (g) or locating pin (a---m and R), cable clamp and sheathed tail cap



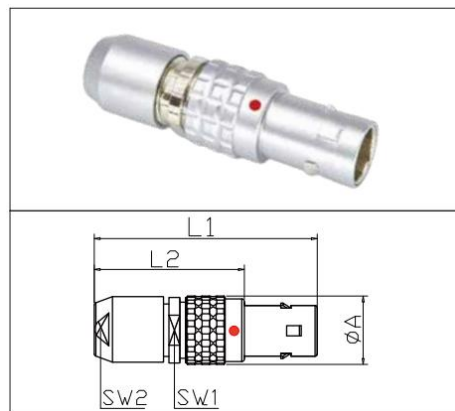
Project		Dimension (mm)						
Series	Model	A	H	L1	L2	SW1	SW2	SW3
00B	THG	7.7	18	24	16	5.5	5	7
0B	THG	10.9	26	31	21	8	7	9
1B	THG	13.5	30	37	26	10	9	12
2B	THG	16.5	34	41.5	29.5	13	13	15
3B	THG	19	37	50	35	16	15	17
4B	THG	26	52	67	49	21	20	22

TFG Straight plug without locking device, locating pin (g) or locating pin (a - M), cable clamp and sheathed tail cap



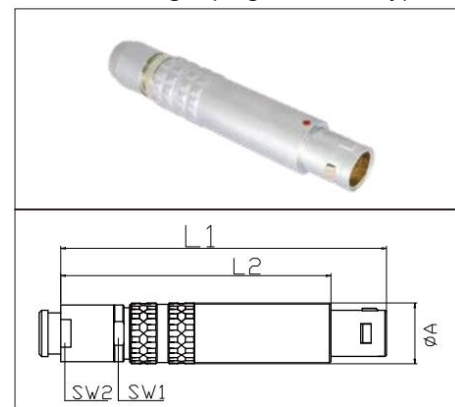
Project		Dimension (mm)				
Series	Model	A	L1	L2	SW1	SW2
00B	TFG	8.2	27.5	19.5	5.5	5
0B	TFG	9.5	35	25	8	8
1B	TFG	12	43	32	10	9
2B	TFG	15	48	36	13	13
3B	TFG	18	57	42	16	15
4B	TFG	25	74	56	21	20

DGG Straight plug, short type, locating pin (g), cable clamp



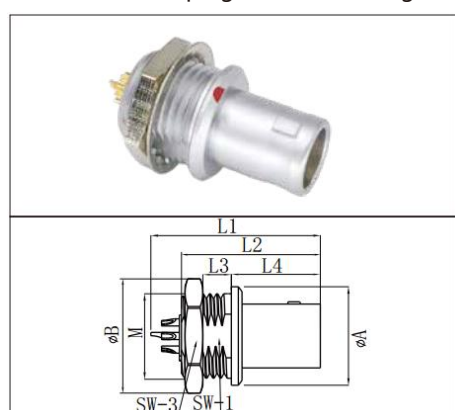
Project		Dimension (mm)				
Series	Model	A	L1	L2	SW1	SW2
0B	DGG	9.5	32	22	8	7

TDG Straight plug, extended type, locating pin (g) or locating pin (A-M), cable clamp



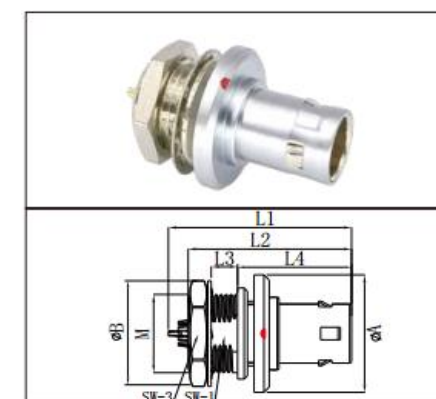
Project		Dimension (mm)				
Series	Model	A	L1	L2	SW1	SW2
1B	TDG	12	68	57	10	9
2B	TDG	15	79	67	13	13

TAG Fixed plug, without locking device, fixed with nut, locating pin (g) or locating pin (a - m)



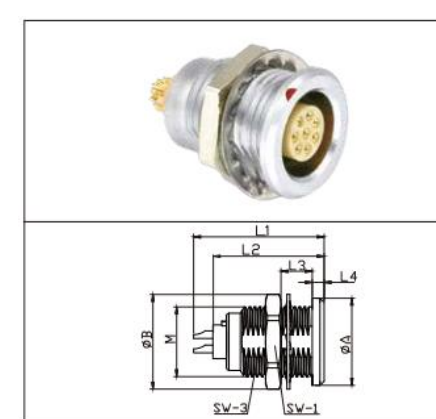
Project		Dimension (mm)									Panel opening drawing
Series	Model	A	B	M	L1	L2	L3	L4	SW1	SW3	
0B	TAG	10	12.4	M9*0.6	20.8	18.4	4	11.2	8.2	11	SW 8.3/09.1
1B	TAG	14	15.8	M12*1.0	25.2	22.6	5	12.5	10.5	14	SW 10.6/012.1
2B	TAG	18	19.2	M15*1.0	28.7	23.9	6	13.8	13.5	17	SW 13.6/015.1
3B	TAG	21	25	M18*1.0	32	29.1	6	17	16.5	22	SW 16.6/018.1
4B	TAG	29	34	M25*1.0	37	34	7	20.5	23.5	30	SW 23.6/025.1

TWG Fixed plug, nut fixed, locating pin (g) or locating pin (a - - m)



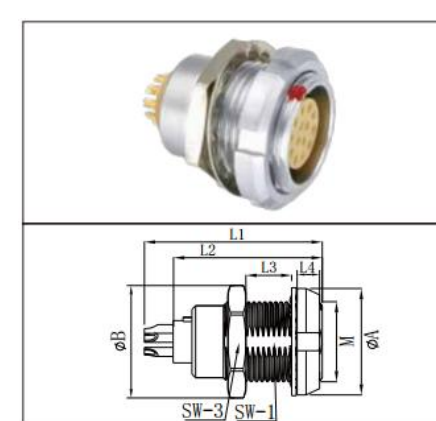
Project		Dimension (mm)									Panel opening drawing
Series	Model	A	B	M	L1	L2	L3	L4	SW1	SW3	
1B	TWG	18	16	M12*1.0	25	23	3	17	10.5	14	SW 10.6/012.1
2B	TWG	19.5	19.2	M15*1.0	28	26	4	18	13.5	17	SW 13.6/015.1

ZGG Fixed socket, nut fixed, locating pin (g) or locating pin (a m and R)



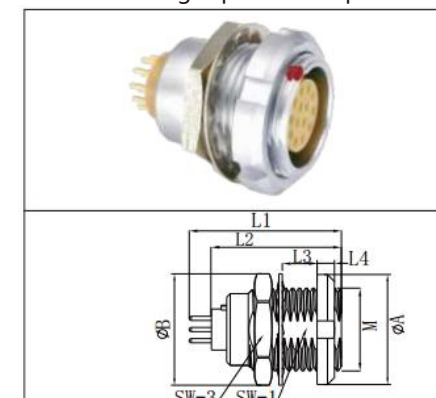
Project		Dimension (mm)									Panel opening drawing
Series	Model	A	B	M	L1	L2	L3	L4	SW1	SW3	
00B	ZGG	8	10	M7*0.5	15.9	12	6	1	6.3	9	SW 6.4/07.1
0B	ZGG	10	12.3	M9*0.6	21.3	18	7	1.2	8.2	11	SW 8.3/09.1
1B	ZGG	14	16	M12*1.0	23.2	18.7	7.5	1.5	10.5	14	SW 10.6/012.1
2B	ZGG	18	19.2	M15*1.0	26	20	8.0	2.0	13.5	17	SW 13.6/015.1
3B	ZGG	21	25	M18*1.0	30.7	25	11	2.0	16.5	22	SW 16.6/018.1
4B	ZGG	28	34	M25*1.0	35.2	27	13	2.5	23.5	30	SW 23.6/025.1

ZCG Fixed socket, fixed with double nuts, locating pin (g) or locating pin (a m and R)



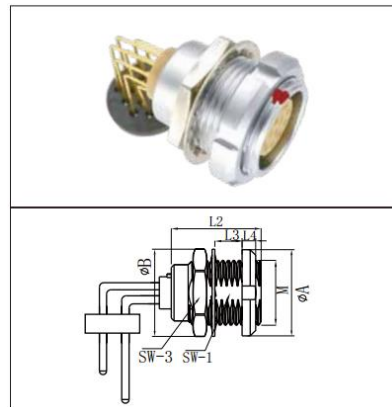
Project		Dimension (mm)									Panel opening drawing
Series	Model	A	B	M	L1	L2	L3	L4	SW1	SW3	
00B	ZCG	8	10.2	M7*0.5	15.9	13.7	4.5	2.5	6.3	9	SW 6.4/07.1
0B	ZCG	12	12.5	M9*0.6	21.3	16.6	5.5	2.5	8.2	11	SW 8.3/09.1
1B	ZCG	16	16	M12*1.0	23.2	18.7	6	3.2	10.5	14	SW 10.6/012.1
2B	ZCG	20	19.5	M15*1.0	24.8	19.8	6.5	3.5	13.5	17	SW 13.6/015.1
3B	ZCG	24	25	M18*1.0	30.7	22.5	9	4.5	16.5	22	SW 16.6/018.1
4B	ZCG	30	34	M25*1.0	35	27	11	4.5	23.5	30	SW 23.6/025.1

ZCG Fixed socket, fixed with double nuts, locating pin (g) or locating pin (a - M and R), suitable for straight pin core of printed circuit board



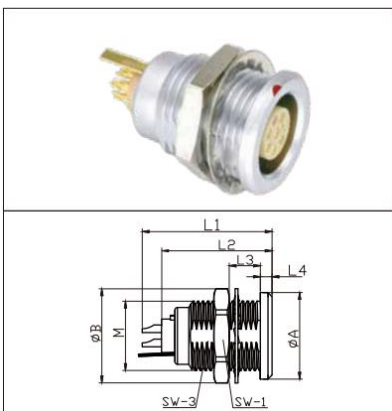
Project		Dimension (mm)									Panel opening drawing
Series	Model	A	B	M	L1	L2	L3	L4	SW1	SW3	
00B	ZCG	10	10.2	M7*0.5	15.9	13.7	4.3	2.5	6.3	9	SW 6.4/07.1
0B	ZCG	12	12.5	M9*0.6	21.3	14.5	5.5	2.5	8.2	11	SW 8.3/09.1
1B	ZCG	16	16	M12*1.0	23.2	16.6	6	3.2	10.5	14	SW 10.6/012.1
2B	ZCG	18	19.5	M15*1.0	24.8	18.7	6.5	3.5	13.5	17	SW 13.6/015.1
3B	ZCG	24	25	M18*1.0	30.7	22.5	9	4.5	16.5	22	SW 16.6/018.1
4B	ZCG	30	34	M25*1.0	34	27	11	4.5	23.5	30	SW 23.6/025.1

ZCG Fixed socket, fixed with double nuts, locating pin (g) or locating pin (a---m), suitable for 90° angle needle core of printed circuit board



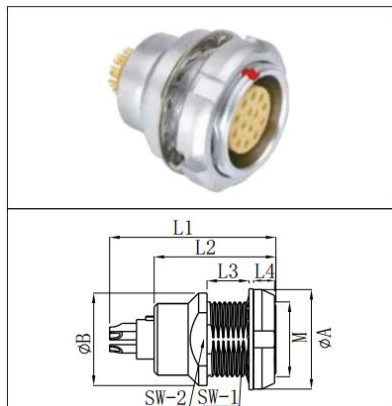
Project		Dimension (mm)									Panel opening drawing
Series	Model	A	B	M	L2	L3	L4	SW1	SW3		
00B	ZCG	8	10.2	M7*0.5	13.7	2.5	2.5	9	13.7	SW 9.1/07.1	
0B	ZCG	12	12.5	M9*0.6	16.6	4.5	2.5	8.2	11	SW 8.3/09.1	
1B	ZCG	16	16	M12*1.0	18.7	6	3.2	10.5	14	SW 10.6/012.1	
2B	ZCG	20	19.5	M15*1.0	18	6.5	3.5	13.5	17	SW 13.6/015.1	
3B	ZCG	23.9	25	M18*1.0	22.5	8	4.5	16.5	22	SW 16.6/018.1	

ZNG Fixed socket, with anchor, fixed by nut, locating pin (g) or locating pin (A-M and R)



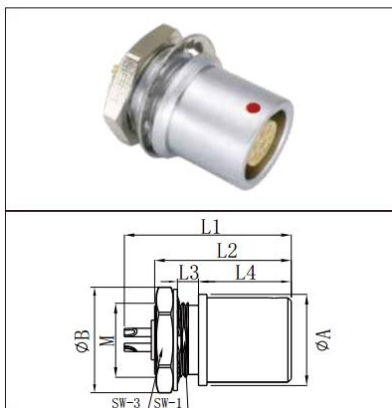
Project		Dimension (mm)									Panel opening drawing
Series	Model	A	B	M	L1	L2	L3	L4	SW1	SW3	
00B	ZNG	8	10.2	M7*0.5	15.9	16.6	6	1	6.3	9	SW 6.4/07.1
0B	ZNG	10	12.3	M9*0.6	21.3	18	7	1.2	8.2	11	SW 8.3/09.1
1B	ZNG	14	16	M12*1.0	23.2	18.7	7.5	1.5	10.5	14	SW 10.6/012.1
2B	ZNG	18	19.2	M15*1.0	24.8	20	8	2	13.5	17	SW 13.6/015.1
3B	ZNG	21	25	M18*1.0	30.7	25	11	2	16.5	22	SW 16.6/018.1
4B	ZNG	28	34	M25*1.0	35	27	13	4.5	23.5	30	SW 23.6/025.1

ZEG Fixed socket, nut fixed, locating pin (g) or locating pin (a---m and R) (rear panel installation)



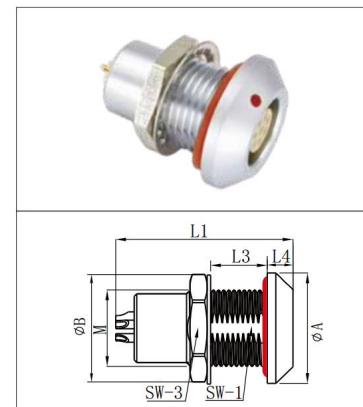
Project		Dimension (mm)									Panel opening drawing
Series	Model	A	B	M	L1	L2	L3	L4	SW1	SW2	
00B	ZEG	10	8	M7*0.5	15.9	13.7	2.5	2.5	6.3	7.5	SW 6.4/07.1
0B	ZEG	12	10	M9*0.6	22	19	2.5	2.5	8.2	9	SW 8.3/09.1
1B	ZEG	16	14	M12*1.0	24	21	5	3.2	10.5	12	SW 10.6/012.1
2B	ZEG	20	18	M15*1.0	27	24	4.5	3.5	13.5	15	SW 13.6/015.1
3B	ZEG	25	24	M18*1.0	31	28	9	4.5	16.5	18	SW 16.6/018.1

ZHG Fixed socket, nut fixed, locating pin (g) or locating pin (A-M and R), protruding shell



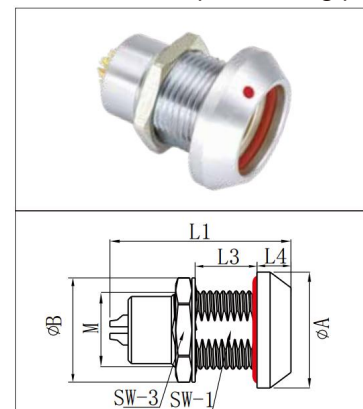
Project		Dimension (mm)									Panel opening drawing
Series	Model	A	B	M	L1	L2	L3	L4	SW1	SW3	
00B	ZHG	8	10.2	M7*0.5	15.9	13.7	2.0	9.5	6.3	9	SW 6.4/07.1
0B	ZHG	10.8	12.4	M9*0.6	19.8	19	2.0	11	8.2	11	SW 8.3/09.1
1B	ZHG	13.8	16	M12*1.0	22.5	21	4	11.75	10.5	14	SW 10.6/012.1
2B	ZHG	18	19.2	M15*1.0	24.8	24.8	5	11.75	13.5	17	SW 17.1/015.1
3B	ZHG	21	25	M18*1.0	30.7	30.7	7	16.5	16.5	22	SW 22.1/018.1

MGG Fixed socket, nut fixed, locating pin (g) or locating pin (A-M), watertight or vacuum sealed



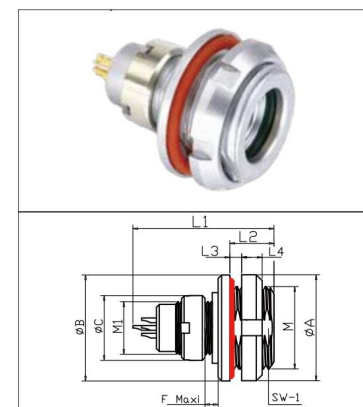
Project		Dimension (mm)									Panel opening drawing
Series	Model	A	B	M	L2	L3	L4	SW1	SW3		
00B	MGG	11	10	M7*0.5	18.6	6	1.5	6.3	9	SW 6.4/07.1	
0B	MGG	13	12.7	M9*0.6	22	5.5	3	8.2	11	SW 8.3/09.1	
1B	MGG	18	15.8	M12*1.0	26	6	4.5	10.5	14	SW 10.6/012.1	
2B	MGG	20	19.5	M15*1.0	31.6	8	4	13.5	17	SW 13.6/015.1	
3B	MGG	25	25	M18*1.0	36	10	4	16.5	22	SW 16.6/018.1	
4B	MGG	34	34	M25*1.0	43	11	4	23.5	30	SW 23.6/025.1	

MHG Fixed socket, fixed by nut, locating pin (g) or locating pin (A-M and R), watertight or vacuum sealing (waterproof during plugging)



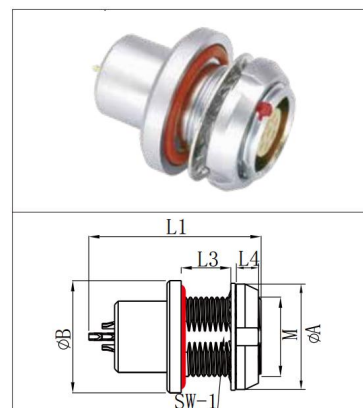
Project		Dimension (mm)									Panel opening drawing
Series	Model	A	B	M	L1	L3	L4	SW1	SW3		
0B	MHG	13	12.7	M9*0.6	23	7	4.8	8.2	11	SW 8.3/09.1	
1B	MHG	18	15.8	M12*1.0	30	7	5.2	10.5	14	SW 10.6/012.1	
2B	MHG	22	19.5	M15*1.0	35	8	6	13.5	17	SW 13.6/015.1	
3B	MHG	25	25	M18*1.0	41	11	7.2	16.5	22	SW 22.1/018.1	

MCG Fixed socket, fixed with nut, locating pin (g) or locating pin (A-M and R), watertight or vacuum sealing (waterproof when plugging)



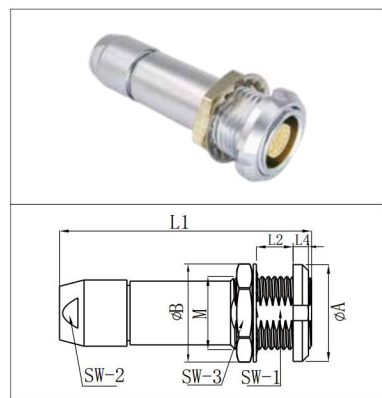
Project		Dimension (mm)										
Series	Model	A	B	C	M	M1	L1	L2	L3	L4	SW1	F
0B	MCG	17.9	17.9	12	M14*1.0	M9*0.6	23.2	7.5	3.9	3.5	12.5	1
1B	MCG	20	20	14.5	M16*1.0	M12*1.0	30.3	10	6.2	3.5	14.5	2
2B	MCG	24	24	17.5	M19*1.0	M19*1.0	35.6	11.3	6.7	3.5	17	1.5

MEG Fixed socket, nut fixed, locating pin (g) or locating pin (A-M and R), watertight or vacuum sealed



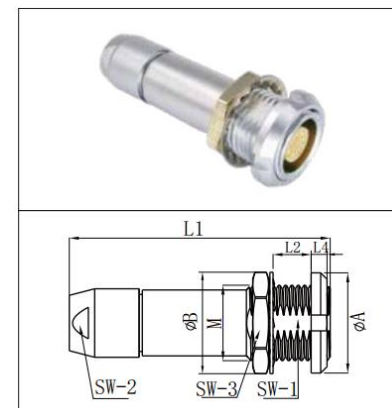
Project		Dimension (mm)							Panel opening drawing
Series	Model	A	B	M	L1	L3	L4	SW1	
0B	MEG	12	12.9	M9*0.6	21.5	5	2.5	8.2	SW 8.3/09.1
1B	MEG	16	18	M12*1.0	27	7	3.5	10.5	SW 10.6/012.1
2B	MEG	20	20	M18*1.0	37	16	4.5	16.5	SW 16.6/018.1

MMG Fixed socket, nut fixed outside the chassis, locating pin (g) or locating pin (a---m and R), watertight or vacuum sealed, with grounding strip



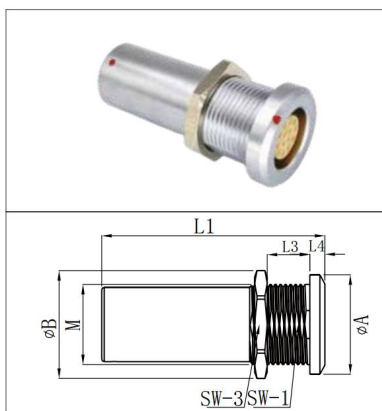
Project		Dimension (mm)								Panel opening drawing
Series	Model	A	B	M	L1	L3	L4	SW1		
0B	MMG	10	12	M9*0.6	21.3	5.5	2.5	8.2	SW 8.3/09.1	
1B	MMG	14	16	M12*1.0	23.2	5.5	3.5	10.5	SW 10.6/012.1	
2B	MMG	18	19.2	M15*1.0	24.8	5.5	3.5	13.5	SW 13.6/015.1	

XFG Fixed socket, fixed with double nuts, locating pin (g) or locating pin (a---m and R), cable clamp



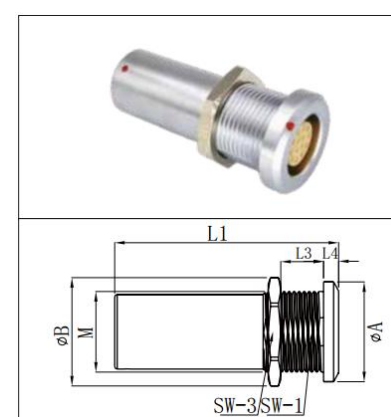
Project		Dimension (mm)										Panel opening drawing
Series	Model	A	B	M	L1	L2	L3	L4	SW1	SW3		
00B	XFG	10	10.2	M7*0.5	26	5.3	2.5	6.3	5	9	SW 6.4/07.1	
0B	XFG	12	12.5	M9*0.6	35	5	2.5	8.2	7	11	SW 8.3/09.1	
1B	XFG	16	16	M12*1.0	40	5	3.5	10.5	9	14	SW 10.6/012.1	
2B	XFG	20	19.2	M15*1.0	47	6.5	3.5	13.5	13	17	SW 13.6/015.1	
3B	XFG	24	25	M18*1.0	56	9	4.5	16.5	15	22	SW 16.6/018.1	

XHG Floating socket, locating pin (g) or locating pin (a - M), cable clamp (for connection between cables)



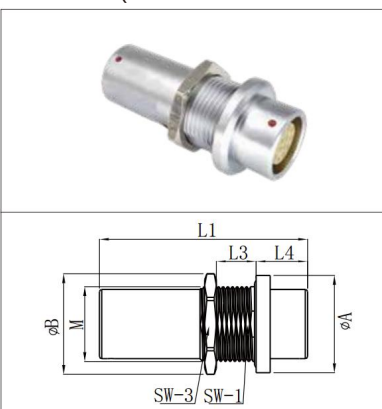
Project		Dimension (mm)			
Series	Model	A	L1	SW1	SW2
00B	XHG	6.8	27.5	5.5	5
0B	XHG	9.5	34	8	7
1B	XHG	11.8	40	10	9
2B	XHG	16.5	48	13	13
3B	XHG	18.8	55	15	15

RGG Fixed two-way, nut fixed, with locating pin (g> or locating pin (A... M) at the flange end and locating pin (I, K and M)



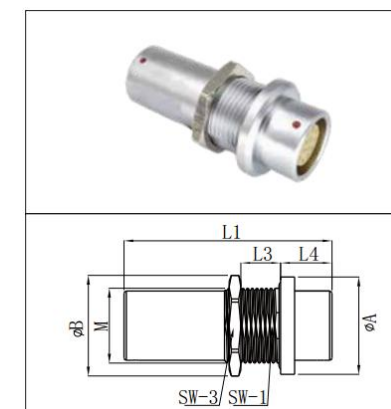
Project		Dimension (mm)								Panel opening drawing
Series	Model	A	B	M	L1	L3	L4	SW1		
2B	RGG	19.2	21.5	M16*1.0	44.5	8	4	15	SW 15.1/016.1	

XHG Floating socket, locating pin (g) or locating pin (a - M), cable clamp and sheathed tail cap (for connection between cables)



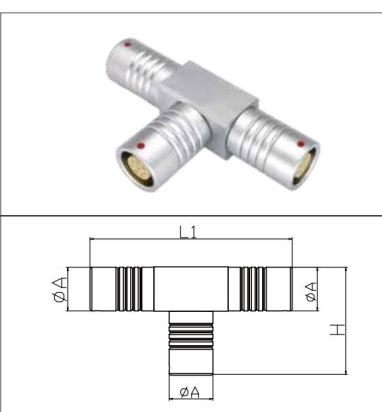
Project		Dimension (mm)			
Series	Model	A	L1	SW1	SW2
00B	XHG	6.8	34	5.5	6
0B	XHG	9.6	35	8	8
1B	XHG	11.8	39.5	10	9
2B	XHG	16.5	47	13	13
3B	XHG	18.8	54.5	15	15

SGG Fixed two-way, nut fixed, flange and other end are dowel pins (G), watertight or vacuum type



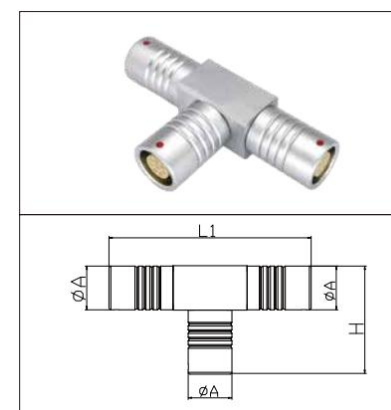
Project		Dimension (mm)									Panel opening drawing
Series	Model	A	B	M	L1	L3	L4	SW1	SW3		
2B	SGG	20.8	21.5	M16*1.0	44.5	8	11	15	19	SW 15.1/016.1	

XKG Fixed socket, nut fixed, locating pin (g) or locating pin (a - M and R), cable clamp



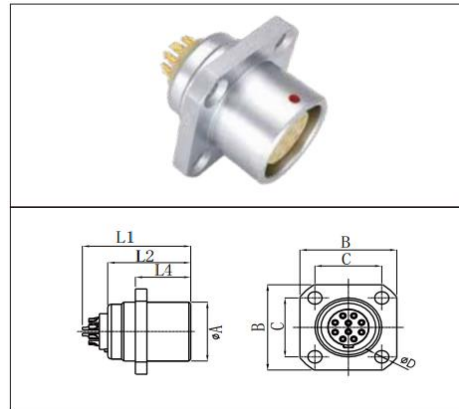
Project		Dimension (mm)										Panel opening drawing
Series	Model	A	B	M	L1	L2	L3	L4	SW1	SW3		
00B	XKG	8	10.2	M7*0.5	25	6.5	1	6.3	5	9	SW 6.4/07.1	
0B	XKG	10	12.3	M9*0.6	35.5	7	1.2	8.2	7	11	SW 8.3/09.1	
1B	XKG	14	16	M12*1.0	40.5	7.5	1.5	10.5	9	14	SW 10.6/012.1	
2B	XKG	18	19.2	M15*1.0	47	8.5	1.8	13.5	13	17	SW 13.6/015.1	
3B	XKG	22	25	M18*1.0	56	11.5	2	16.5	15	22	SW 16.6/018.1	

3TG Floating socket, locating pin (g) or locating pin (A---M), cable clamp (for connection between cables)



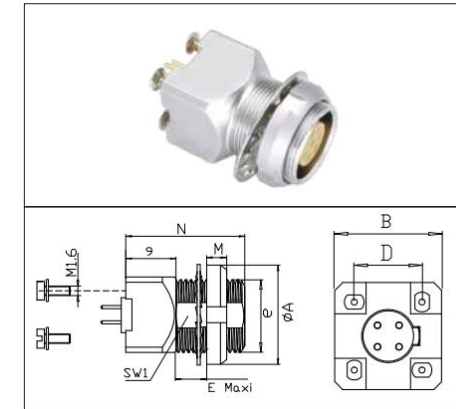
Project		Dimension (mm)		
series	model	A	L1	H
1B	3TG	11.8	55	29.4

ZDG Fixed socket with square flange, screw locking, protruding shape, locating pin (g) or locating pin (a---m)



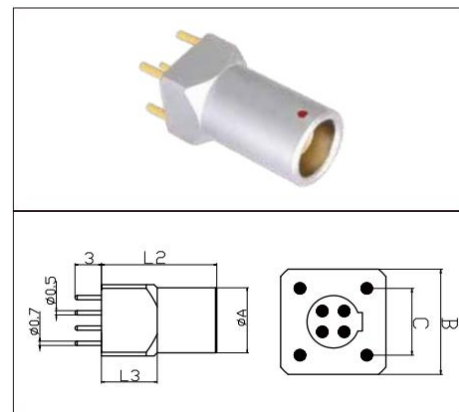
Project		Dimension (mm)						
Series	Model	A	B	C	D	L1	L2	L4
1B	ZDG	12	19	12.8	3.2	21.7	18.4	10.3
2B	ZDG	14.5	21	14.5	3.2	22.8	19.8	12

ZYG Straight socket, applicable to printed circuit board, locating pin (g) or locating pin (a---m)



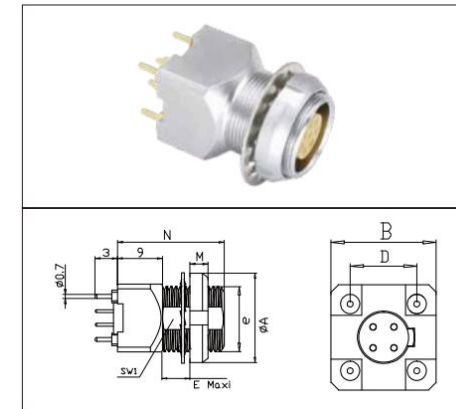
Project		Dimension (mm)							
Series	Model	A	B	D	e	E	M	N	SW1
0B	ZYG	12	10	7.62	M9*0.6	2.6	2.5	15	8.2
1B	ZYG	14	12	7.62	M11*0.5	5	3.5	19	-

ZZG Straight socket, applicable to printed circuit board, locating pin (g) or locating pin (a---m)



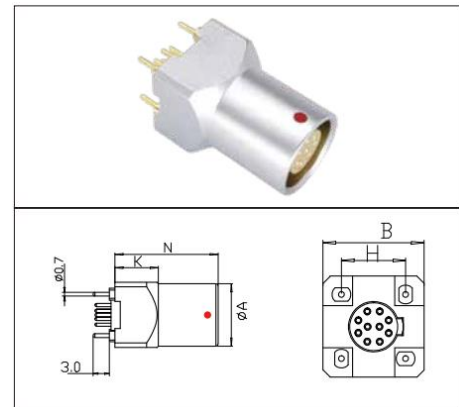
Project		Dimension (mm)				
Series	Model	A	B	C	L3	L2
00B	ZZG	7	7	5.08	4	14

ZYG Straight socket, applicable to printed circuit board, locating pin (g) or locating pin (a---m)



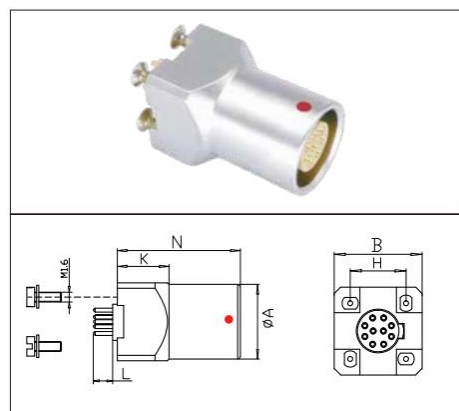
Project		Dimension (mm)							
Series	Model	A	B	D	e	E	M	N	SW1
0B	ZYG	12	10	7.62	M9*0.6	2.6	2.5	15	8.2
1B	ZYG	14	12	7.62	M11*0.5	5	3.5	19	-

ZZG Straight socket, applicable to printed circuit board, locating pin (g) or locating pin (a---b)



Project		Dimension (mm)				
Series	Model	A	B	H	K	N
0B	ZZG	9	10	7.62	8	15
1B	ZZG	11	12	7.62	8	19
2B	ZZG	14	15	10.16	9	22.5

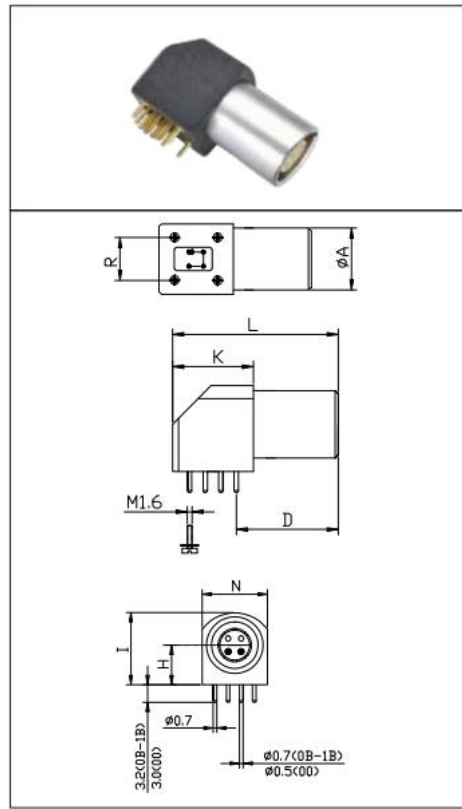
ZZG Straight socket, suitable for PCB, screw fixation, locating pin (g) or locating pin (a---f)



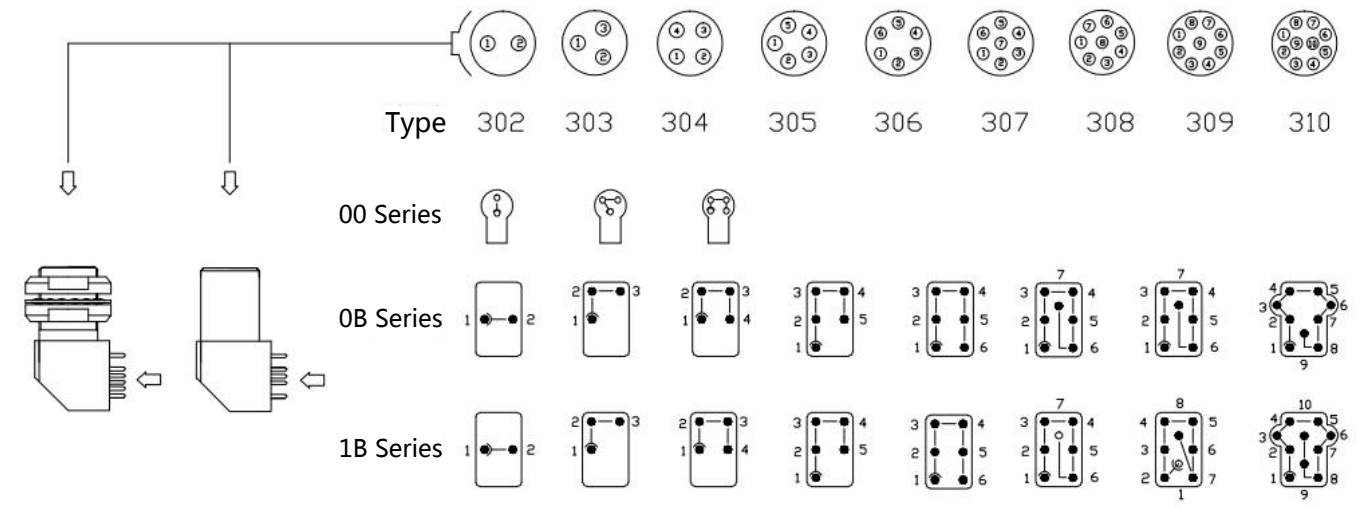
Project		Dimension (mm)				
Series	Model	A	B	C	K	N
0B	ZZG	9	10	7.62	8	15
1B	ZZG	11	12	7.62	8	19
2B	ZZG	14	15	10.16	9	22.5

Note: The length depends on the number of needle cores, see the table on page 72

ZXG Is applicable to 90 ° angled socket of printed circuit board. It is grounded and fixed by welding. See the next page for the corresponding diagram between the welding plate end of locating pin (g) or locating pin (a---m) and the plug hole end

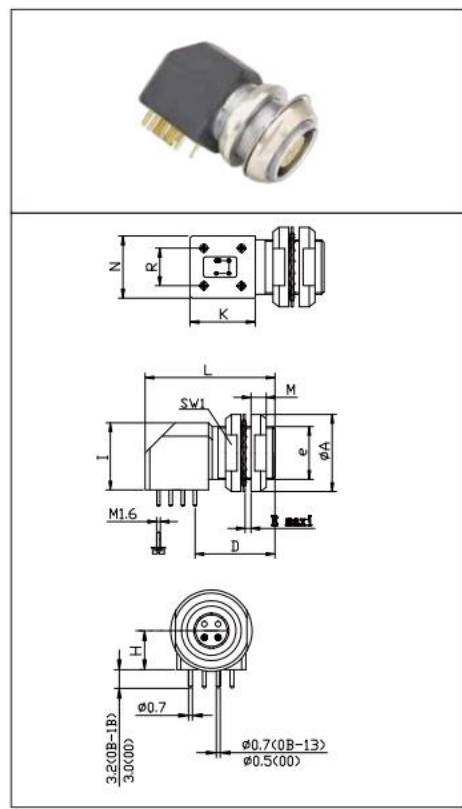


Project	Dimension (mm)							
	A	D	H	I	K	L	N	R
ZPG. 00.302.HLN	6.8	11.5	3.5	7.0	8.7	19	7.1	5.08
ZPG. 00.303.HLN								
ZPG. 00.304.HLN								
ZPG. 0B. 302.HLN	9	14.6	6.7	12.7	13.3	25	11.7	7.62
ZPG. 0B. 303.HLN								
ZPG. 0B. 304.HLN								
ZPG. 0B. 305.HLN								
ZPG. 0B. 306.HLN								
ZPG. 0B. 307.HLN								
ZPG. 0B. 309.HLN								
ZPG. 1B. 302.HLN	11	16.6	7.5	14	13.3	27	12.6	7.62
ZPG. 1B. 303.HLN								
ZPG. 1B. 304.HLN								
ZPG. 1B. 305.HLN								
ZPG. 1B. 306.HLN								
ZPG. 1B. 307.HLN								
ZPG. 1B. 308.HLN								
ZPG. 1B. 310.HLN								



Locating pin (B Series)

ZXG Is applicable to 90 ° angled socket of printed circuit board. It is fixed with double nuts. See the next page for the corresponding diagram between the welding plate end and the plug hole end of locating pin (g) or locating pin (a---m)



Project	Dimension (mm)												
	A	B	D	e	E	H	I	K	V	M	N	R	SW1
ZPG. 00.302.HLN	10	10.2	11.5	M7*0.5	2.1	3.5	7.0	8.7	19	2.5	7.1	5.08	9
ZPG. 00.303.HLN													
ZPG. 00.304.HLN													
ZPG. 0B. 302.HLN	12	12.4	14.6	M9*0.6	6.0	6.7	12.7	13.3	25	2.5	11.7	7.62	11
ZPG. 0B. 303.HLN													
ZPG. 0B. 304.HLN													
ZPG. 0B. 305.HLN													
ZPG. 0B. 306.HLN													
ZPG. 0B. 307.HLN													
ZPG. 0B. 309.HLN													
ZPG. 1B. 302.HLN	14	15	16.6	M11*0.5	7.5	7.5	14	13.3	27	3.5	12.6	7.62	13
ZPG. 1B. 303.HLN													
ZPG. 1B. 304.HLN													
ZPG. 1B. 305.HLN													
ZPG. 1B. 306.HLN													
ZPG. 1B. 307.HLN													
ZPG. 1B. 308.HLN													
ZPG. 1B. 310.HLN													

Alignment pin and polarity alignment pin combination

Front view of socket	Number	Locating pin quantity	Angle	Series			Number	Locating pin quantity	Angle	Series			Core type		Notes	
				00	0B	1B				2B	3B	4B	Plug	Socket		
	G	1		0°	0°	0°	G	1		0°	0°	0°	Male needle core	Female needle core	●	
	A	2	α	30°	30°	30°	A	2	α	30°	30°	30°			●	
	B	2	α	60°	60°	60°	B	2	α	45°	45°	45°			●	
	C	2			-	90°	90°	C	2		60°	60°	60°	●		
	D	2		β	-	135°	135°	D	2	γ	95°	95°	95°	○		
	E	2		β	-	145°	145°	E	2	β	120°	120°	120°	○		
	F	2		β	-	155°	155°	F	2	β	145°	145°	145°	○		
	J	2		γ	45°	45°	45°	J	2	α	37.5°	37.5°	37.5°	●		
	K	2		γ	-	70°	70°	K	2	α	52.5°	52.5°	52.5°	○		
	L	2		γ	-	80°	80°	L	2	γ	70°	70°	70°	○		
	M	2		δ	-	110°	-	M	2	-	-	-	-	○		
	Y	3		-	-	-	-	Y	3	β	112.5°	126°	112.5°	Male needle core	Female needle core	● 1)

Front view of socket	Number	Locating pin quantity	Angle	Series			Number	Locating pin quantity	Angle	Series			Core type		Notes
				00	0B	1B				2B	3B	4B	Plug	Socket	
	R	5	α	-	-	-	R	5	α	-	-	-	Male needle core	Female needle core	●
			β	-	-	-			β	-	-	-			
			γ	-	-	-			γ	-	-	-			
			δ	-	-	-			δ	-	-	-			

Precision
Instrument

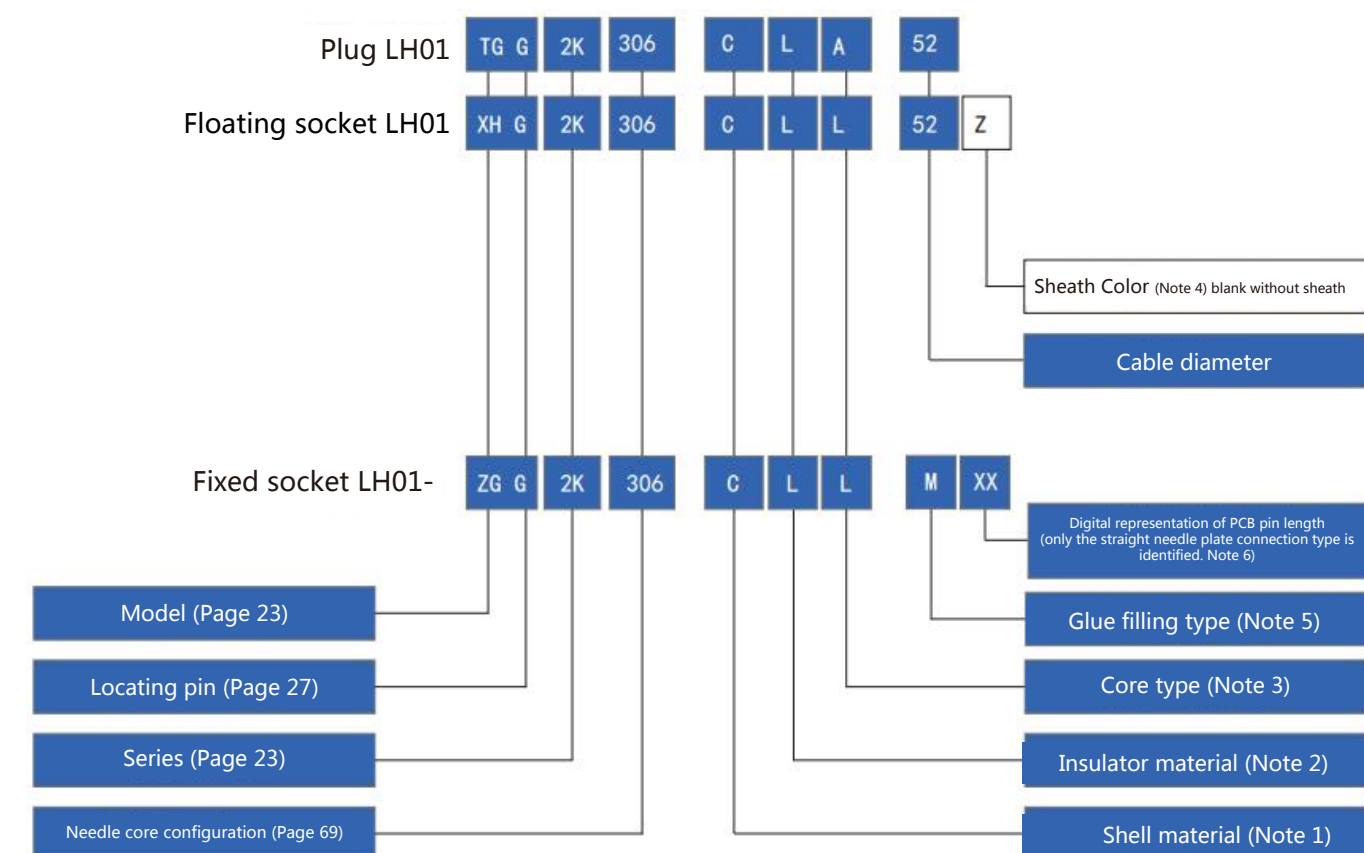
K Series

K series is specially designed for outdoor applications. All models of the series are waterproof when plugged in. K series and B series connectors have the same insulator. Its main features are:

1. Safe push-pull self-locking system
2. Waterproof connection (ip66-68)
3. Multi core type 2-30 cores
4. Welding and PCB pin cores (straight and angled)
5. Locating pin system (G is standard locating pin) is used for connector alignment
6. Multiple locating pins are selected to avoid mixed insertion between similar connectors
7. 360 degree shielding provides comprehensive EMC protection (anti electromagnetic interference)
8. High density installation, space saving
9. Rugged housing design for harsh working environments



Product numbering rules:

**Note 1:**

C= Chrome plated brass
 K= Black chrome plated brass
 N= Nickel plated brass
 T= Stainless steel
 L= Aluminum alloy anodizing
 H= Chrome plated rubber coated brass
 (Applicable to ZPG and ZXG printed board angle socket)

Note 2:

L=PPS
 G=PEEK
 T=PTFE
 R=PPSU

Note 3:

A= Welding pin
 L= Welding socket
 N= Plate to straight jack
 D= Board connected straight pin
 V= Plate bending socket

Note 4:

Z= Black
 G= Gray
 A= Blue
 R= Red
 J= Yellow
 V= Green

Note 5:

W= Silicone seal
 M= Epoxy resin seal
 (seal type only)

Note 6:

25=2.5mm
 30=3mm
 35=3.5mm
 40=4mm

Example of product number:

Straight plug with clamp

TGG. 2K 306. Cla52= straight plug, locating pin (g), with clamp, 2K series, multi-core type, 6-core, brass chrome plated shell, PPS insulator, welded male pin core, suitable for cables with an outer diameter of 5.0mm.

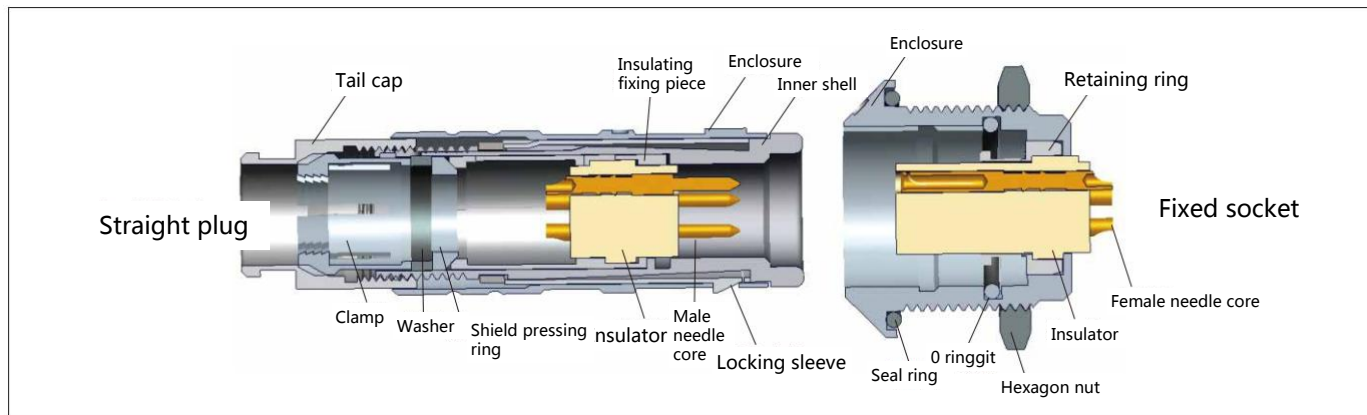
Floating socket

XHG. 2K 306. ClI52z= floating socket, locating pin g, with clamp, 2K series, multi-core type, 6-core, brass chrome plated shell, PPS insulator, welded female pin core, suitable for 5.0mm outer diameter cable, with black sheath.

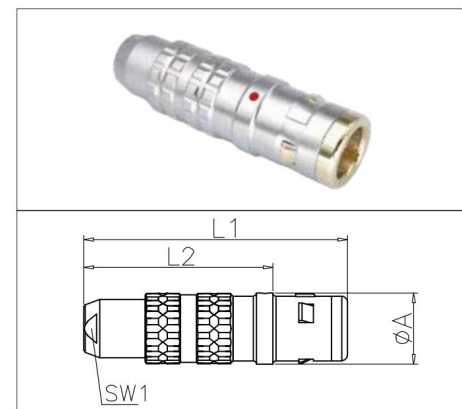
Fixed socket

ZGG. 2K 306. ClI= fixed socket, nut fixed, locating pin (g), 2K series, multi-core type, 6-core, brass chrome plated housing, PPS insulator, welded female pin core.

Product profile:

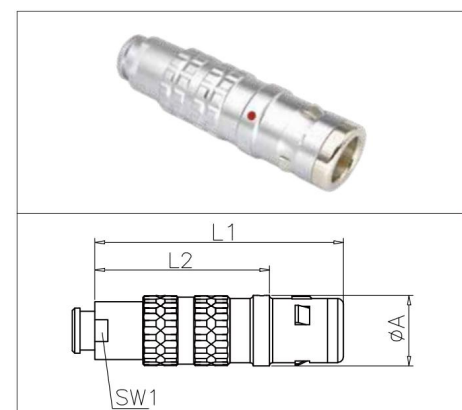


TGG Waterproof straight plug, locating pin (g) or locating pin (A-M), cable clamp



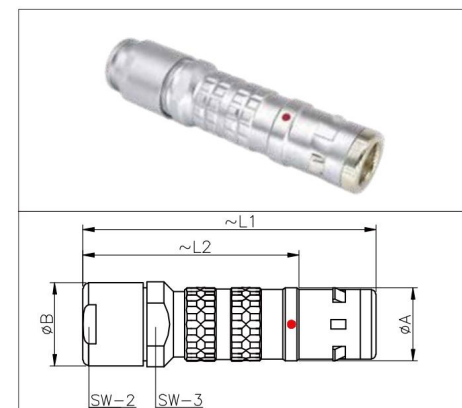
Project		Dimension (mm)			
Series	Model	A	L1	L2	SW1
0K	TGG	11	36	25	8
1K	TGG	13	42	28	9
2K	TGG	16	52	36	13
3K	TGG	19	61	41	15

TGG Waterproof straight plug, locating pin (g) or locating pin (a---m), cable clamp and tail cap with sheath



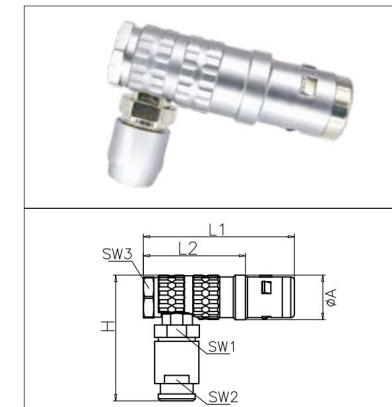
Project		Dimension (mm)			
Series	Model	A	L1	L2	SW1
0K	TGG	11	36	25	8
1K	TGG	13	42	28	9
2K	TGG	16	52	36	13
3K	TGG	19	61	41	15

TGG Waterproof straight plug, locating pin (g) or locating pin (a--m), oversized cable clamp and tail cap with sheath



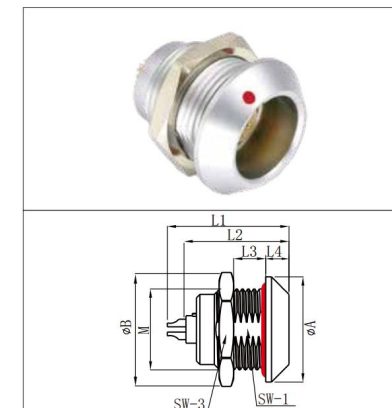
Project		Dimension (mm)					
Series	Model	A	L1	L2	B	SW2	SW3
0K	TGG	11	46	35	11	9	10
1K	TGG	13	60	46	14.5	13	13
2K	TGG	16	68	52	17	15	16
3K	TGG	18.9	85	65	21.5	19	19

THG Waterproof 90 degree angle plug, locating pin (g) or locating pin (a---m), cable clamp and tail cap with sheath



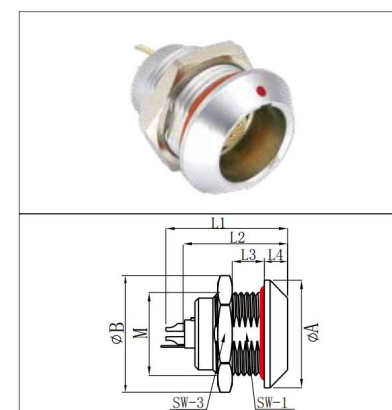
Project		Dimension (mm)						
Series	Model	A	H	L1	L2	SW1	SW2	SW3
0K	THG	11	23.5	37	26	8	8	10
1K	THG	14	30	43	29	10	9	12
2K	THG	17.5	40	51	35	13	12	15
3K	THG	21	47	60	40	15	15	18
4K	THG	27.5	57	72	51.5	20	19	24

ZGG Fixed socket, nut fixed, locating pin (g) or locating pin (A-F, I and R)



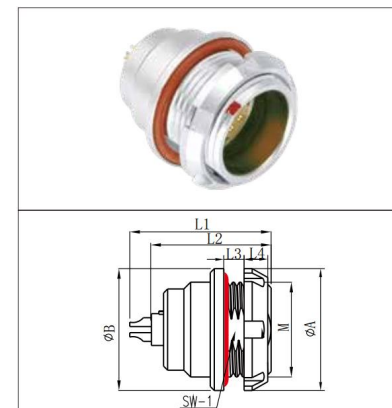
Project		Dimension (mm)									Panel opening drawing
Series	Model	A	B	M	L1	L2	L3	L4	SW1	SW3	
0K	ZGG	18	19	M14*1.0	21.3	20	6	4	12.5	17	
1K	ZGG	20	22	M16*1.0	27.8	25	9	4.5	14.5	19	SW 14.6/Ø16.1
2K	ZGG	25	28	M20*1.0	29	28	9	5	18.5	24	SW 18.6/Ø20.1
3K	ZGG	31	34	M24*1.0	36.1	33.6	11	6	22.5	30	SW 22.6/Ø24.1

ZNG Fixed socket, nut fixed, locating pin (g) or locating pin (A-F, I and R), with grounding



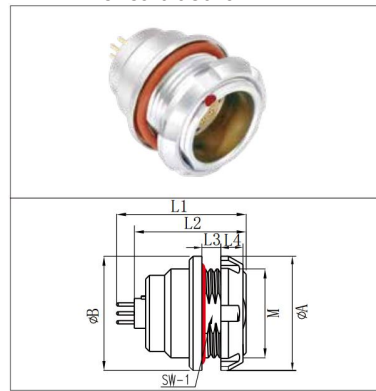
Project		Dimension (mm)									Panel opening drawing
Series	Model	A	B	M	L1	L2	L3	L4	SW1	SW3	
0K	ZNG	18	19	M14*1.0	21.3	20	6	4	12.5	17	
1K	ZNG	20	22	M16*1.0	27.8	25	9	4.5	14.5	19	SW 14.6/Ø16.1
2K	ZNG	25	28	M20*1.0	29	28	9	5	18.5	24	SW 18.6/Ø20.1
3K	ZNG	31	34	M24*1.0	36.1	33.6	11	6	22.5	30	SW 22.6/Ø24.1

ZEG Fixed socket, nut fixed, locating pin (g) or locating pin (a - F, I and R)



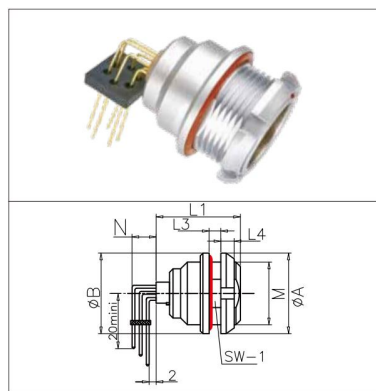
Project		Dimension (mm)								Panel opening drawing
Series	Model	A	B	M	L1	L2	L3	L4	SW1	
0K	ZEG	18	18	M14*1.0	21	19.2	3.5	3.5	12.5	
1K	ZEG	20	20	M16*1.0	27	25	6	3.5	14.5	SW 14.6/Ø16.1
2K	ZEG	25	25	M20*1.0	30	28	5.5	3.5	18.5	SW 18.6/Ø20.1
3K	ZEG	30	31	M24*1.0	36	33	7.5	4.5	22.5	SW 22.6/Ø24.1

ZEG Fixed socket, nut fixed, locating pin (g) or locating pin (a---f, I and R), suitable for straight pin core of PCB circuit board



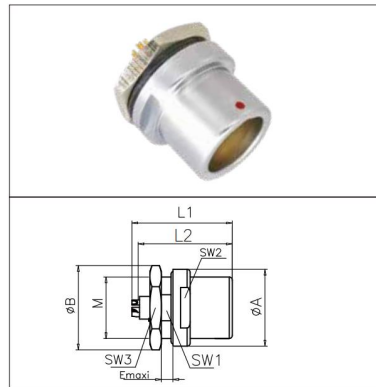
Project		Dimension (mm)								Panel opening drawing
series	model	A	B	M	L1	L2	L3	L4	SW1	
0K	ZEG	18	18	M14*1.0	33	19.2	3.5	3.5	12.5	SW 12.6/Ø14.1
1K	ZEG	20	20	M16*1.0	29	25	6	3.5	14.5	SW 14.6/Ø16.1
2K	ZEG	25	25	M20*1.0	32	28	5.5	3.5	18.5	SW 18.6/Ø20.1
3K	ZEG	30	31	M24*1.0	37	33	7.5	4.5	22.5	SW 22.6/Ø24.1

ZEG Fixed socket, nut fixed, locating pin (g) or locating pin (a---f, I and R), suitable for 90 ° bending pin of printed circuit board



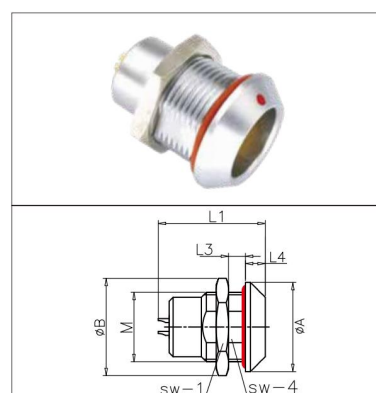
Project		Dimension (mm)								Panel opening drawing
series	model	A	B	M	L1	L3	L4	SW1		
0K	ZEG	18	18	M14*1.0	19	3.5	3.5	12.5	SW 12.6/Ø14.1	
1K	ZEG	20	20	M16*1.0	25	6	3.5	14.5	SW 14.6/Ø16.1	
2K	ZEG	25	25	M20*1.0	28	5.5	3.5	18.5	SW 18.6/Ø20.1	
3K	ZEG	30	31	M24*1.0	33	8	4.5	22.5	SW 22.6/Ø24.1	

MHG Fixed socket, nut fixed in the chassis, locating pin (g) or locating pin (a--f, I and R)



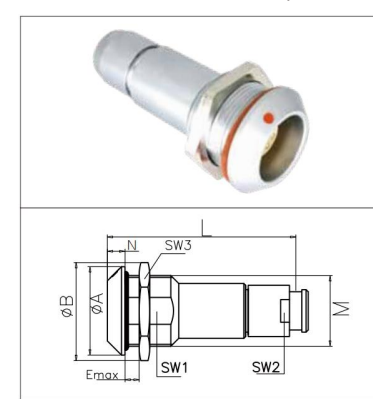
Project		Dimension (mm)								
series	model	A	B	M	L1	L2	E	SW1	SW2	SW3
0K	MHG	18	19.7	M14*1.0	21	20	1.5	12.5	15	17
1K	MHG	20	21.9	M16*1.0	26	25	1.5	14.5	17	19
2K	MHG	25	27.7	M20*1.0	30	27	1.5	18.5	20	24

MGG Fixed socket, nut fixed, locating pin (g) or locating pin (a---f, I and R), watertight or vacuum sealed



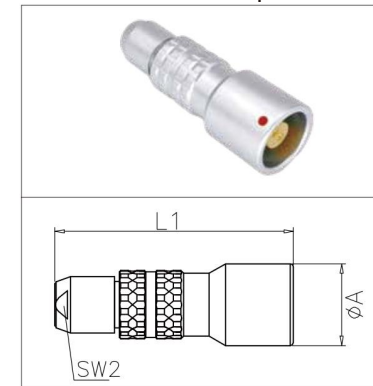
Project		Dimension (mm)								Panel opening drawing
series	model	A	B	M	L1	L3	L4	SW4	SW1	
0K	MGG	18	19.7	M14*1.0	22	5.5	4	12.5	17	SW 12.6/Ø14.1
1K	MGG	20	21.9	M16*1.0	30	9	4.5	14.5	19	SW 14.6/Ø16.1
2K	MGG	25	27.7	M20*1.0	33.5	13	5	18.5	24	SW 18.6/Ø20.1
3K	MGG	31	34	M24*1.0	41.7	16	6	22.5	30	SW 22.6/Ø24.1

ZKG Fixed socket, locating pin (g) or locating pin (a--f, I and R), cable clamp



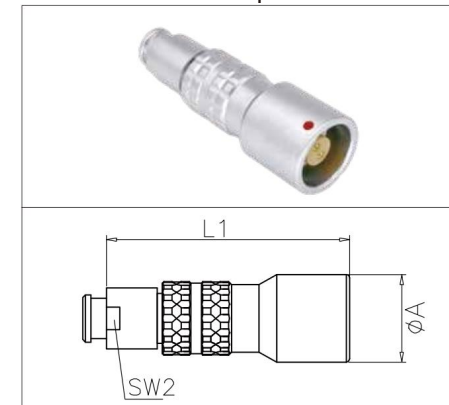
Project		Dimension (mm)								
series	model	A	B	M	L	N	E	SW1	SW2	SW3
0K	ZKG	18	19.7	M14*1.0	34	4	6	17	12.5	8
1K	ZKG	20	21.9	M16*1.0	45	4.5	9	19	14.5	9
2K	ZKG	25	27.7	M20*1.0	53.2	5	9	24	18.5	13
3K	ZKG	31	34	M24*1.0	65	6	11.5	30	22.5	15

XHG Floating socket, used for connection between cables, locating pin (g) or locating pin (a---f, I and R), cable clamp



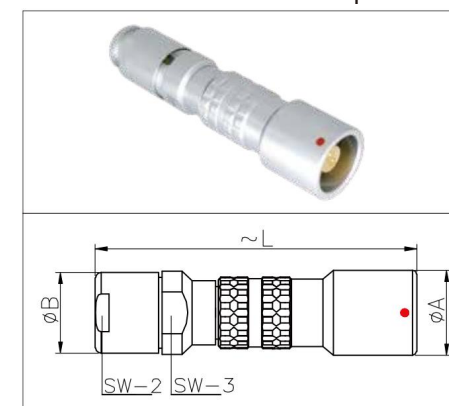
Project		Dimension (mm)		
series	model	A	L1	SW2
0K	XHG	13	34	8
1K	XHG	15	45	9
2K	XHG	19	53	13
3K	XHG	23	65	15

XHG Floating socket, used for connection between cables, locating pin (g) or locating pin (a---f, I and R), cable clamp and tail cover with protective sleeve



Project		Dimension (mm)		
series	model	A	L1	SW2
0K	XHG	13	34	8
1K	XHG	15	45	9
2K	XHG	19	53	13
3K	XHG	23	65	15


XHG Floating socket for connection between cables, locating pin (g) or locating pin (a--f, I and R), oversized cable clamp




Project		Dimension (mm)				
series	model	A	B	L	SW2	SW3
1K	XHG	15	14.5	63	13	13
2K	XHG	19	17	70	15	15
3K	XHG	23	23	89	20	20
4K	XHG	29	36	124	32	30

Locating pin (K Series)

Alignment pin and polarity alignment pin combination

Front view of socket 	Number	Locating pin quantity	Angle	Series					Core type		Notes
				0K	1K	2K	3K	4K	Plug	Socket	
				G	1		0°	0°	0°	0°	
A	2	α	30°	30°	30°	30°	30°	●			
B	2		45°	45°	45°	45°	45°	●			
C	2	60°	60°	60°	60°	60°	●				
D	2	γ	95°	95°	95°	95°	95°	○			
E	2	β	120°	120°	120°	120°	120°	○			
F	2		145°	145°	145°	145°	145°	○			
J	2	γ	75°	75°	75°	75°	75°	Female needle core	Male needle core	●	

Front view of socket 	Number	Locating pin quantity	Angle	Series					Core type		Notes
				0K	1K	2K	3K	4K	Plug	Socket	
				R	5	α	-	-	-	95°	
β	-	-	-			115°	-				
γ	-	-	-			35°	-				
δ	-	-	-			25°	-				

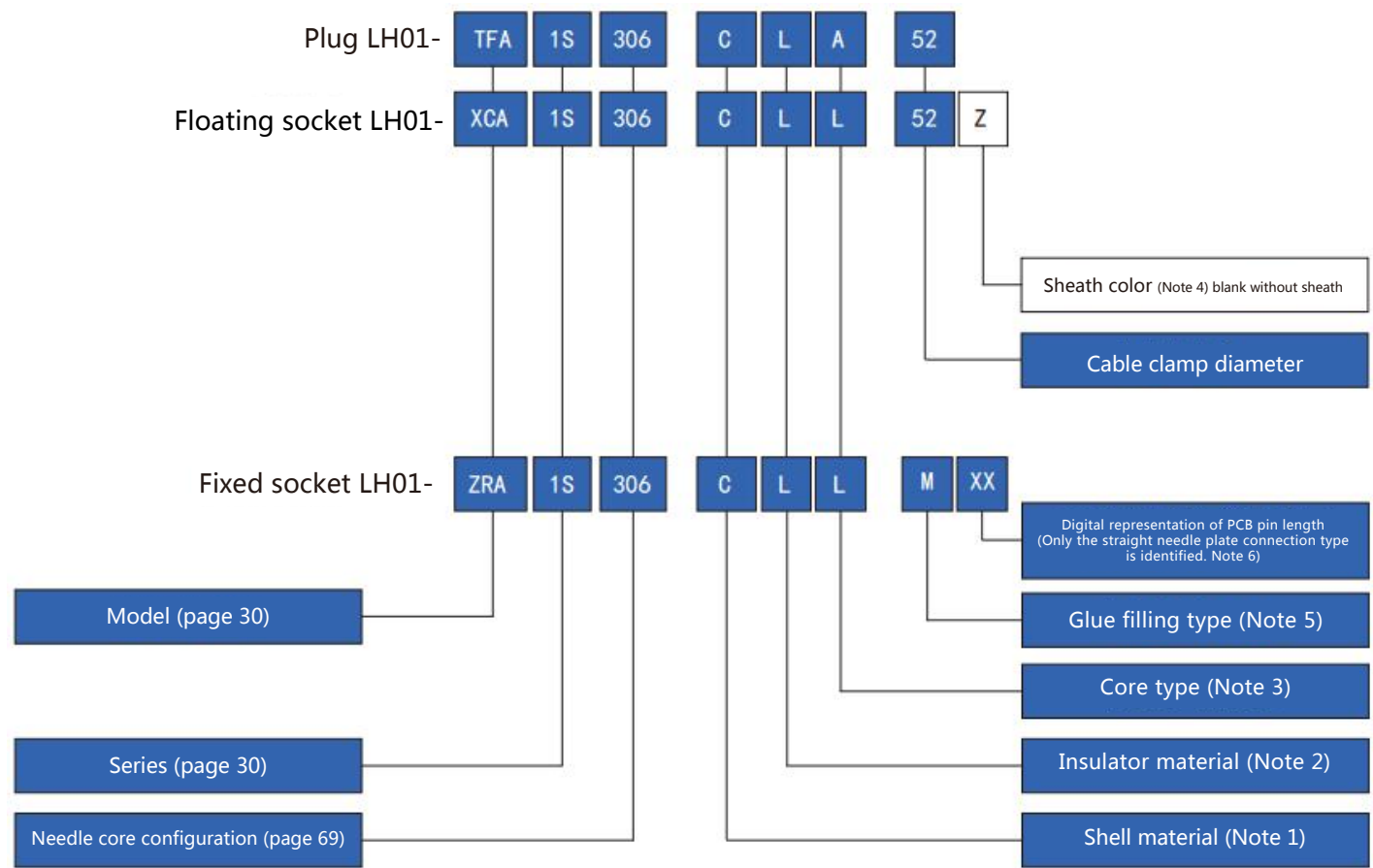
Note: ● Conventional model, first consider selection
○ Special model, select when there is special demand



S series

- ① High density installation, space saving
- ② Safe push-pull self-locking system
- ③ Welding and PCB pin cores (straight and angled)
- ④ High and low insulators (stepped) are positioned to avoid wrong insertion
- ⑤ The insulator is equipped with both male and female needle cores
- ⑥ 360 degree shielding provides comprehensive EMC protection (anti electromagnetic interference)

Product numbering rules:



- Note 1: C= Chrome plated brass, K= Black chrome plated brass, N= Nickel plated brass, T= Stainless steel, L= Aluminum alloy anodizing, H= Chrome plated rubber coated brass (applicable to ZPG and ZXG printed board angle socket)
- Note 2: L=PPS, G=PEEK, T=PTFE, R=PPSU
- Note 3: A= Welding pin, L= Welding Jack, N= Plate to straight jack, D= Board connected straight pin, V= Plate bending socket
- Note 4: Z= Black, g= Gray, a= Blue, r= Red, j= Yellow, v= Green
- Note 5: W= Silicone seal, M= Epoxy resin seal (seal type only)
- Note 6: 25=2.5mm, 30=3mm, 35=3.5mm, 40=4mm

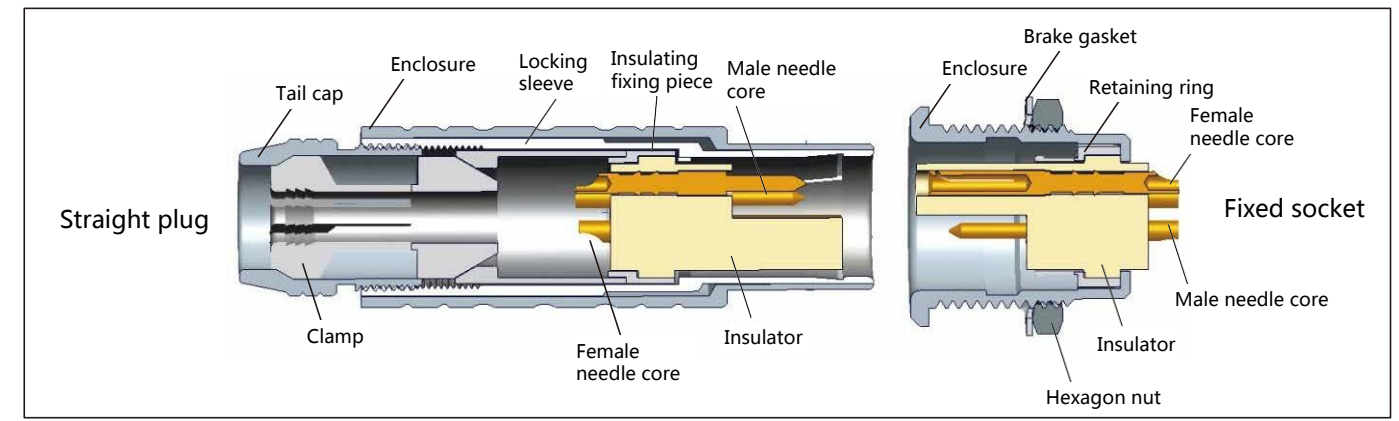
Example of product number:

Straight plug with clamp
 TFA. 1S. 306.cl52= straight plug with clamp, 1s series, multi-core type, 6-core, brass chrome plated shell, PPS insulator, 3 male and 3 female pins, welded pin core, suitable for cables with an outer diameter of 5.0mm.

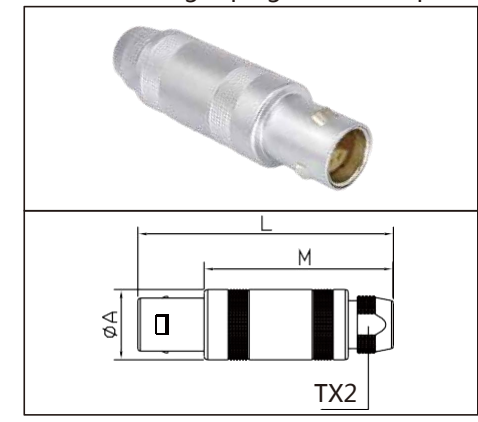
Floating socket
 XCA. 1S. 306.cl152z= floating socket, with clamp, 1s series, multi-core type, 6-core, brass chrome plated shell, PPS insulator, 3 male and 3 female pins, welded pin core, suitable for 5.0mm outer diameter cable, with black sheath.

Fixed socket
 ZRA. 1S. 306.cl1= fixed socket, nut fixed, 1s series, multi-core type, 6-core, brass chrome plated housing, PPS insulator, 3 male and 3 female pins, welded pin core.

Product profile:

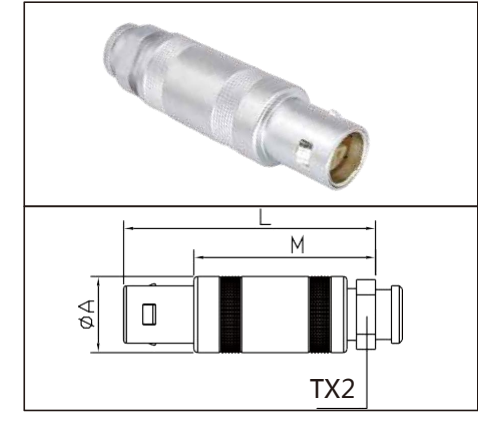


TFA Straight plug, cable clamp



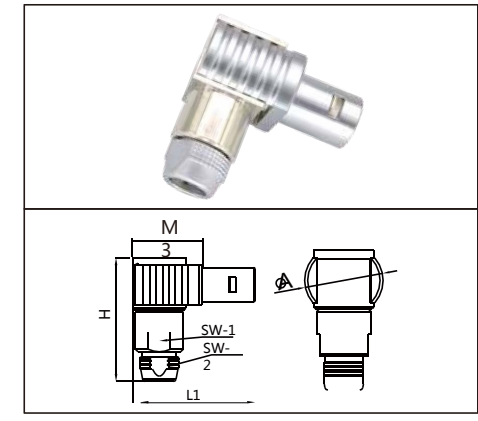
Project		Dimension (mm)			
Series	Model	A	L	M	SW1
00S	TFA	6.4	26	18	4.5
0S	TFA	9	34.5	24.5	6.5
1S	TFA	12	42.5	31.5	8.5
2S	TFA	15	52	40	11
3S	TFA	17.8	61	46	14

TFA Straight plug, cable clamp and sheathed tail cap



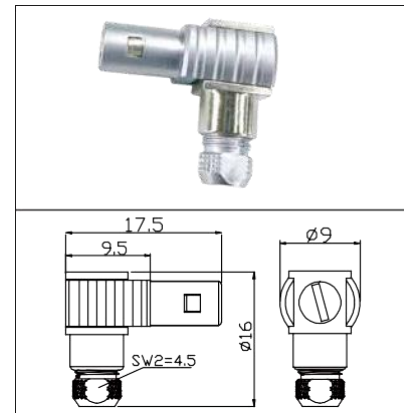
Project		Dimension (mm)			
Series	Model	A	L	M	SW1
00S	TFA	6.4	26	18	6
0S	TFA	9	34.5	24.5	7.3
1S	TFA	12	39.5	28	9
2S	TFA	15	52	40	12
3S	TFA	17.8	61	46	14

TLA 90 degree angled plug, cable clamp



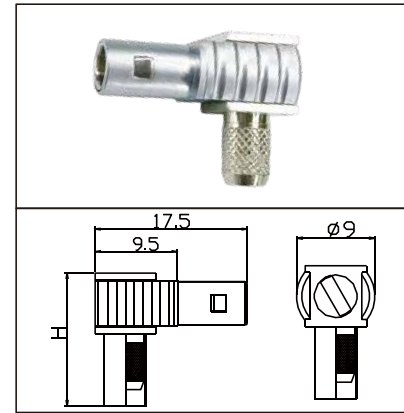
Project		Dimension (mm)					
Series	Model	A	L1	L2	H	SW1	SW2
00S	TLA	9	17.5	9.5	16.5	6	4.5
0S	TLA	13	23	13	24.5	8	6.5
1S	TLA	16	26.5	15.5	29	10	8.5
2S	TLA	20	31	19	37	13	11

TLA 90 degree angled plug, cable clamp



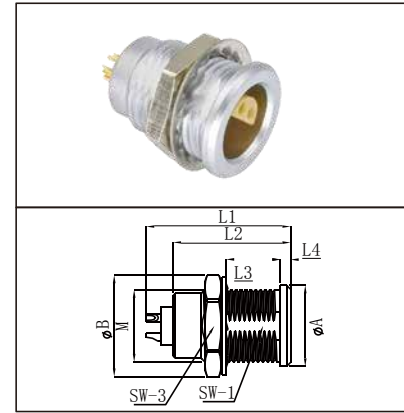
Project		Dimension (mm)				
00S	TLA	17.5	9.5	4.5	16	9

TLS 90 degree angled plug, suitable for cable crimping



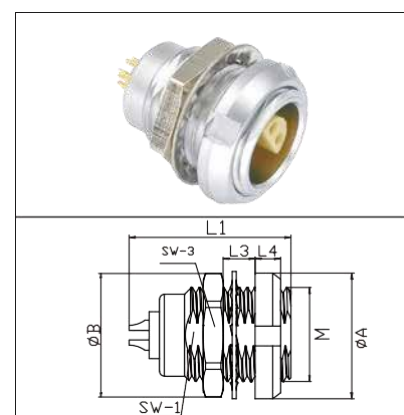
Project		Dimension (mm)			
00S	TLS	17.5	9.5	H=15	9

ZRA Fixed socket, nut fixed



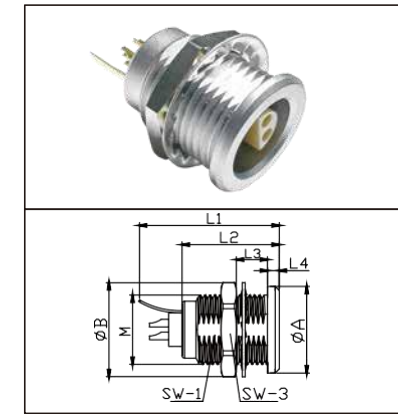
Project		Dimension (mm)									Panel opening drawing
Series	Model	A	B	M	L1	L2	L3	L4	SW1	SW3	
00S	ZRA	8	10.2	M7*0.5	8.5	10.5	6.5	1.0	6.3	9	SW 6.4/Ø7.1
0S	ZRA	10	12.5	M9*0.6	19.5	14.5	7	1.2	8.2	11	SW 8.3/Ø9.1
1S	ZRA	14	15.5	M12*1.0	20.2	16.5	7.5	1.5	10.5	14	SW 10.6/Ø12.1
2S	ZRA	18	19.2	M15*1.0	24.8	18	8	1.8	13.5	17	SW 13.6/Ø15.1
3S	ZRA	22	25.0	M18*1.0	29.0	20.0	11.5	2	16.5	22	SW 16.6/Ø18.1

ZRD Fixed socket, fixed with double nuts (front and rear panel installation)



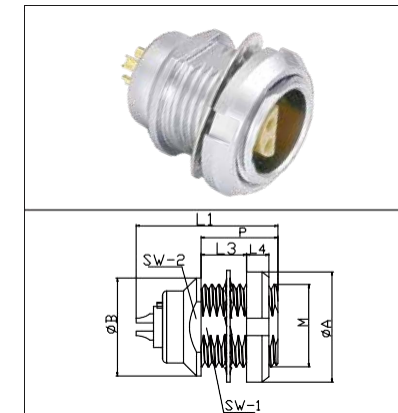
Project		Dimension (mm)								Panel opening drawing
Series	Model	A	B	M	L1	L3	L4	SW1	SW3	
0S	ZRD	12	12.5	M9*0.6	19.5	55	2.5	8.2	11	SW 8.3/Ø9.1
1S	ZRD	16	15.5	M12*1	20.2	6	3.5	10.5	14	SW 10.6/Ø12.1
2S	ZRD	20	19.2	M15*1	24.8	6.5	3.5	13.5	17	SW 13.6/Ø15.1
3S	ZRD	24	25.0	M18*1	29.0	9.0	4.5	16.5	22	SW 16.6/Ø18.1

ZRN Fixed socket, nut fixed, with grounding rod



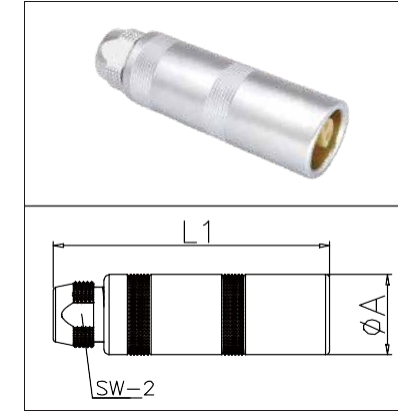
Project		Dimension (mm)									Panel opening drawing
Series	Model	A	B	M	L1	L2	L3	L4	SW1	SW3	
0S	ZRN	10	12.5	M9*0.6	19.3	14.5	7	1.2	8.2	11	SW 8.3/Ø9.1
1S	ZRN	14	15.5	M12*1.0	22.4	16.5	7.5	1.5	10.5	14	SW 10.6/Ø12.1
2S	ZRN	18	19.2	M15*1.0	26.3	18	8.5	2.0	13.5	17	SW 13.6/Ø15.1
3S	ZRN	22	25.0	M18*1.0	29.8	20	11.5	2.0	16.5	22	SW 16.6/Ø18.1

ZEP Fixed socket, fixed outside the chassis



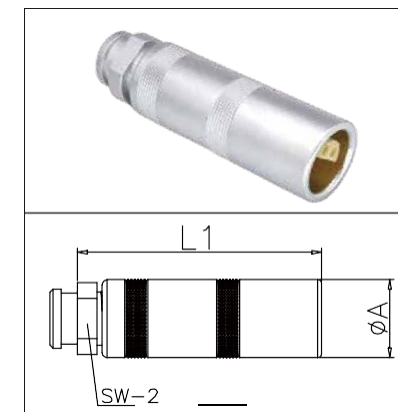
Project		Dimension (mm)									Panel opening drawing
Series	Model	A	B	N	L1	L3	L4	P	SW1	SW2	
2S	ZEP	20	19.5	M15*1	24.5	3.5	3.5	9	13.5	15	SW 13.6/Ø15.1

XCA Floating socket, cable clamp



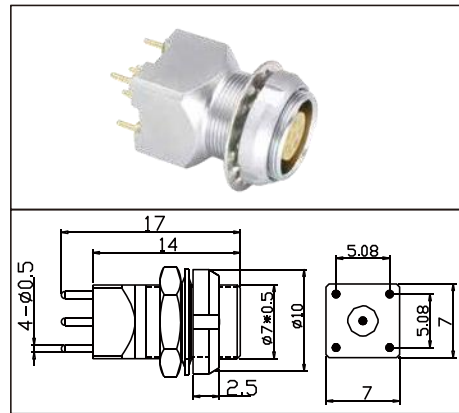
Project		Dimension (mm)		
Series	Model	A	L1	SW2
00S	XCA	6.5	25	4.5
0S	XCA	9	34	6.5
1S	XCA	12	40	8.5
2S	XCA	15	50	11
3S	XCA	17.8	59	14

XCA Floating socket outlet, cable clamp and sheathed tail cap



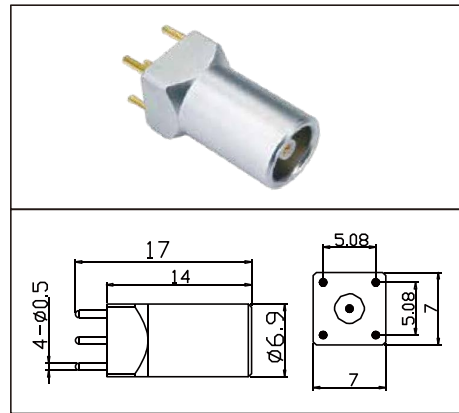
Project		Dimension (mm)		
Series	Model	A	L1	SW2
00S	XCA	6.5	25	6
0S	XCA	9	34	7.3
1S	XCA	12	40	9
2S	XCA	15	50	12
3S	XCA	17.8	59	14

ZPE Fixed socket, fixed outside the chassis



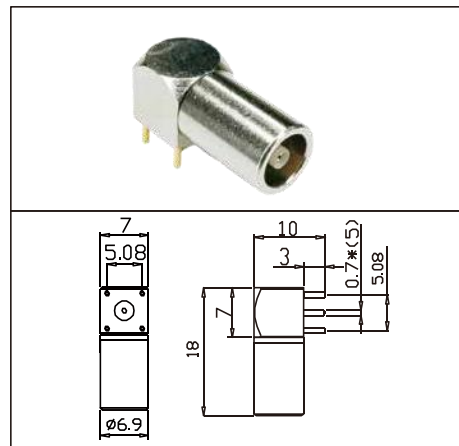
Project	Dimension (mm)									
00S	ZPE	17	14	∅7*0.5	10	2.5	4-∅0.5	7	7	5.08

ZPC Fixed socket, fixed outside the chassis



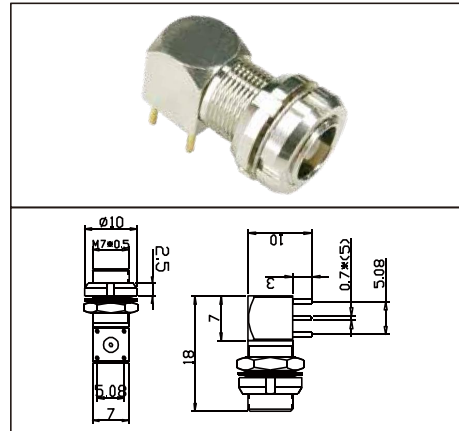
Project	Dimension (mm)									
00S	ZPC	17	14	4-∅0.5	6.9	5.08	5.08	7	7	

ZPL Fixed socket, fixed outside the chassis



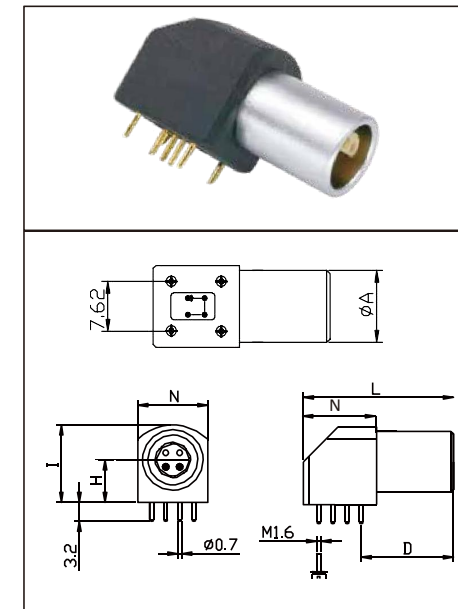
Project	Dimension (mm)									
00S	ZPL	10	1	0.7*5	18	7	5.08	7	5.08	6.9

ZPS Fixed socket, fixed outside the chassis



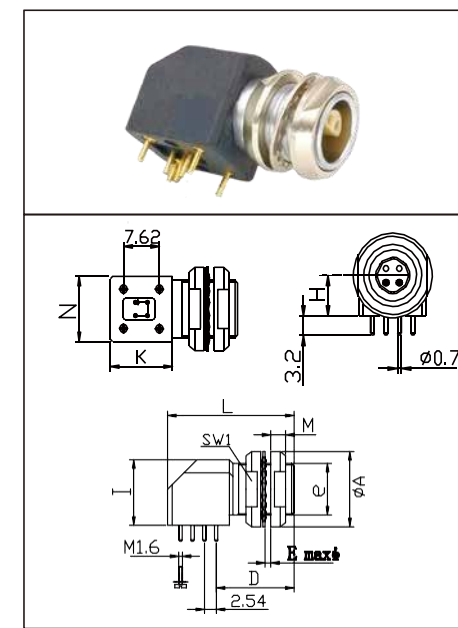
Project	Dimension (mm)									
00S	ZPS	10	2.5	M7*0.5	5.08	7	18	10	0.7*(5)	3

ZPL It is applicable to 90 ° angled socket of printed circuit board. The grounding is welded and fixed. See the next page for the corresponding diagram between the welding plate end and the plug hole end

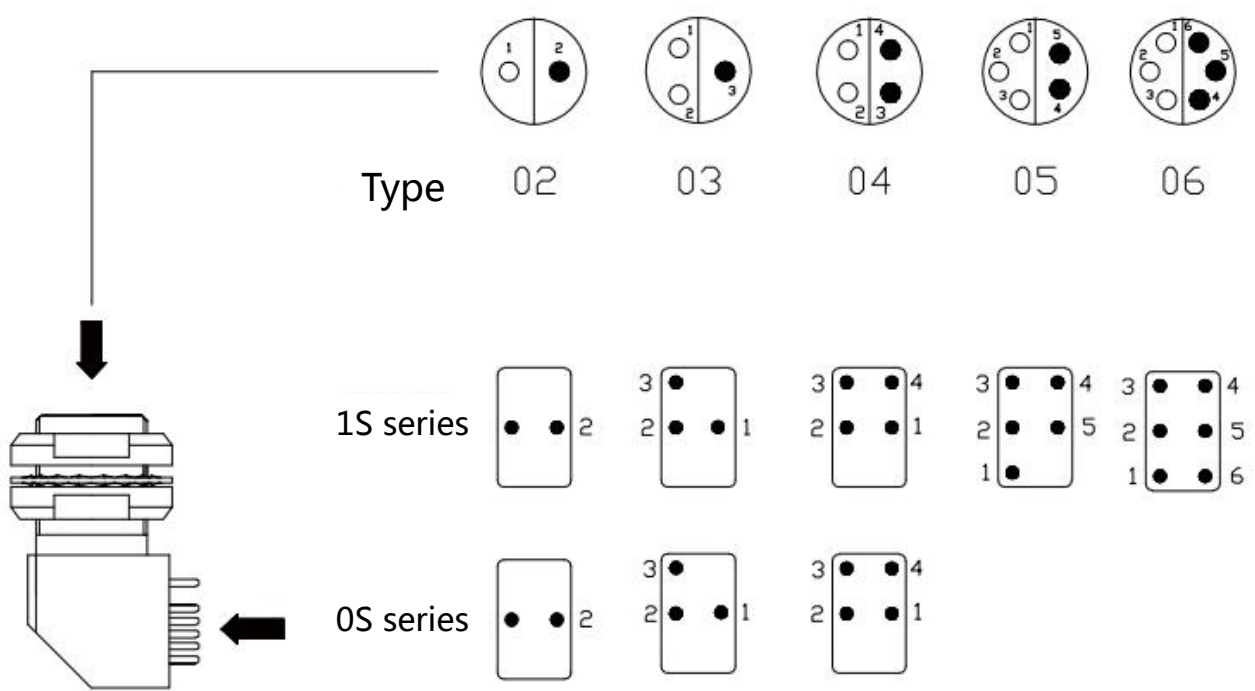


Project	Dimension (mm)							Panel opening drawing
	A	D	H	I	K	L	N	
ZPL. 0S. 302.HLN	9	14.6	6.7	12.7	13.3	25	11.7	/∅9.1
ZPL. 0S. 303.HLN								
ZPL. 0S. 304.HLN								
ZPL. 1S. 302.HLN	11	16.6	7.5	14	13.3	27	12.6	/∅11.1
ZPL. 1S. 303.HLN								
ZPL. 1S. 304.HLN								
ZPL. 1S. 305.HLN								
ZPL. 1S. 306.HLN								

ZXP It is applicable to 90 ° angled socket of printed circuit board. It is fixed with double nuts (welding or screw fixation). See the next page for the corresponding diagram of solder plate end and plug hole end



Project	Dimension (mm)											Panel opening drawing
	A	D	e	E	H	K	I	M	N	SW1	L	
ZXP. 0S. 302.HLN	12	14.6	M9*0.6	6	6.7	13.3	12.7	2.5	11.7	10	25	/∅11.1
ZXP. 0S. 303.HLN												
ZXP. 0S. 304.HLN												
ZXP. 1S. 302.HLN	15	16.6	M11*0.5	7.5	7.5	13.3	14	3	12.6	13	27	/∅11.1
ZXP. 1S. 303.HLN												
ZXP. 1S. 304.HLN												
ZXP. 1S. 305.HLN												
ZXP. 1S. 306.HLN												



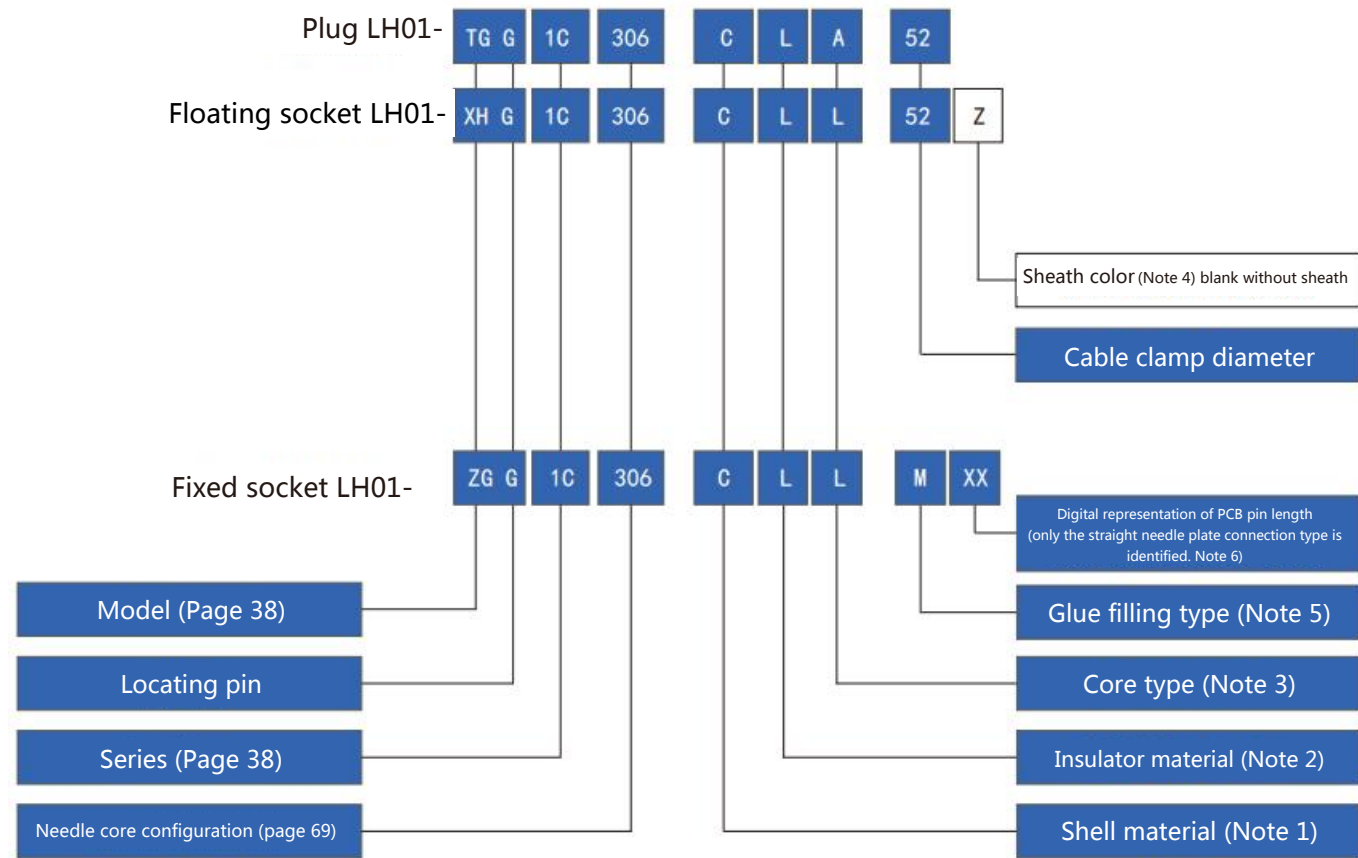
C series

Lp68, and B series are interchangeable

1. Safety split push-pull self-locking system
2. Multi core 2-47 core
3. Welding and PCB pin cores (straight and angled)
4. High density installation, space saving
5. 360 degree shielding provides comprehensive EMC protection (anti electromagnetic interference)
6. Positioning pin positioning to avoid wrong insertion
7. The socket is of vacuum sealing structure, which is suitable for equipment requiring sealing



Product numbering rules:



- Note 1: C= chrome plated brass; K= black chrome plated brass; N= nickel plated brass; T= stainless steel; L= aluminum alloy anodizing; H= chrome plated rubber coated brass (applicable to ZPG and ZXG printed board angle socket)
- Note 2: L=PPS; G=PEEK; T=PTFE; R=PPSU
- Note 3: A= Welding pin; L= Welding socket; N= Plate to straight jack; D= Plate connection straight pin; V= Plate connection bending jack
- Note 4: Z= Black; G= Grey; A= Blue; R= Red; J= Yellow; V= Green
- Note 5: W= silicone seal; M= epoxy resin seal (seal type only)
- Note 6: 25=2.5mm; 30=3mm; 35=3.5mm; 40=4mm

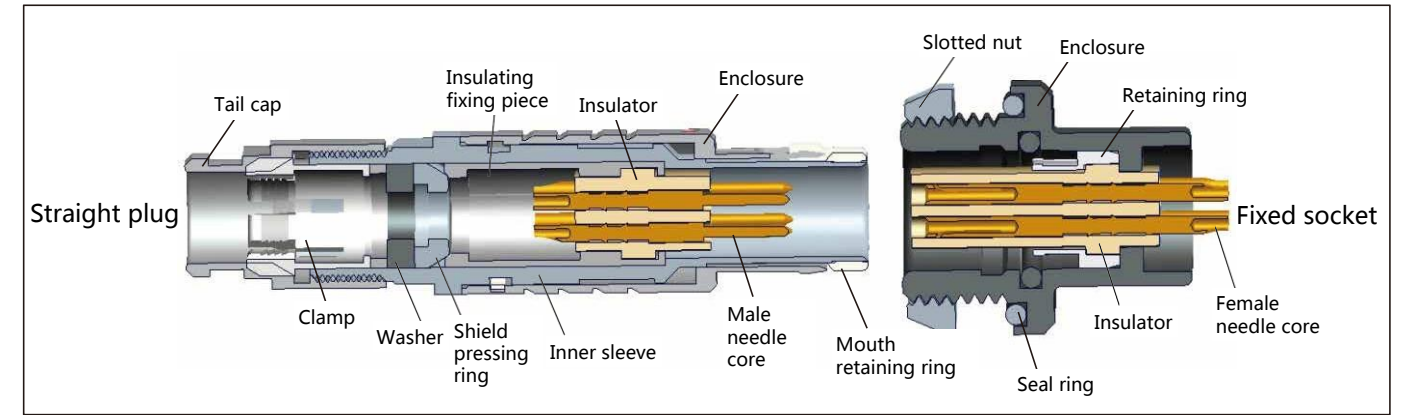
Example of product number:

Straight plug with clamp tgg 1C. 306.cla52= straight plug, locating pin (g), with clamp, 1c series, multi-core type, 6-core, brass chrome plated shell, PPS insulator, welded male pin core, suitable for cable with outer diameter of 5.0mm.

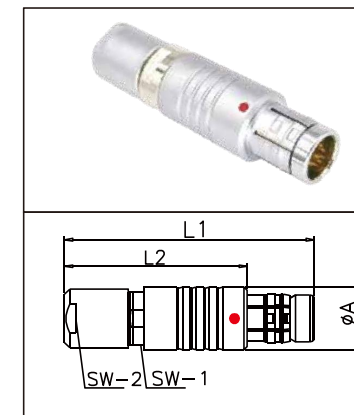
Floating socket xhg 1C. 306.cll52z= floating socket, locating pin (g), with clamp, 1c series, multi-core type, 6-core, brass chrome plated shell, PPS insulator, welded female pin core, suitable for cable with outer diameter of 5.0mm, with black sheath.

Fixed socket zgg 1C. 306.cll= fixed socket, nut fixed, locating pin (g), 1c series, multi-core type, 6-core, brass chrome plated housing, PPS insulator, welded female pin core.

Product profile:

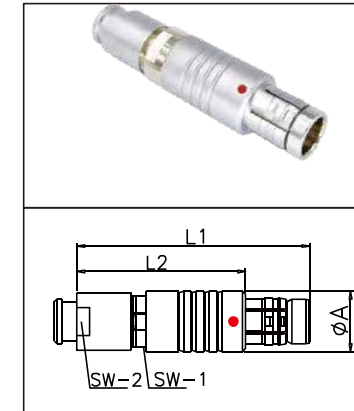


TGG Standard universal straight plug, locating pin (g) or locating pin (a --m), cable clamp



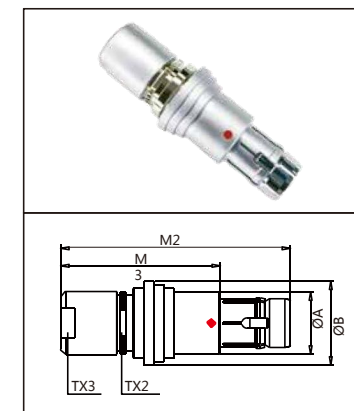
Project		Dimension (mm)				
series	model	A	L1	L2	SW1	SW2
0C	TGG	9.5	37	27	8	8
1C	TGG	12	45	34	10	9
2C	TGG	15	51	39	13	13
3C	TGG	18	59	44	16	15

TGG Standard universal straight plug, locating pin (g) or locating pin (a---m), cable clamp and sheathed tail cap



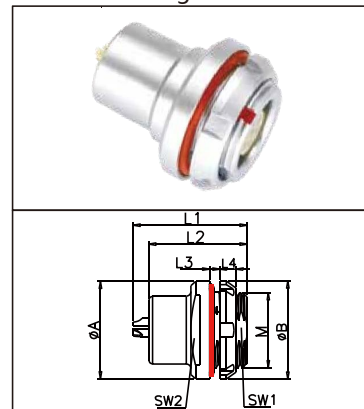
Project		Dimension (mm)				
series	model	A	L1	L2	SW1	SW2
0C	TGG	9.5	37	27	8	8
1C	TGG	12	45	34	10	9
2C	TGG	15	52	40	13	13
3C	TGG	18	58	43	16	15

TRG Short straight plug, semicircular ring positioning (g or a), cable clamp



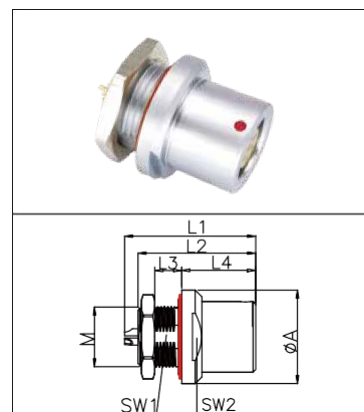
Project		Dimension (mm)					
series	model	A	B	L1	L2	SW1	SW2
0C	TRG	11.5	9.5	34.5	24.5	8	8
1C	TRG	13.5	12.5	42	30	11.5	12
2C	TRG	16.5	15.3	48	36	13	13
3C	TRG	18	18.4	48	33	16	16

MEG Fixed socket, nut fixed outside the chassis, locating pin (g) or locating pin (a---m and R), watertight or vacuum sealed



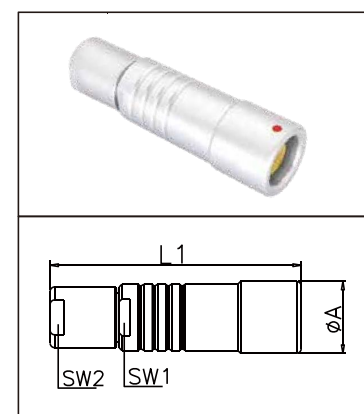
Project		Dimension (mm)									Panel opening drawing
Series	Model	A	B	M	L1	L2	L3	L4	SW1	SW2	
0C	MEG	14.5	14.5	M10*0.5	20.6	18.5	3	3	9	12	SW 9.1/Ø10.1
1C	MEG	18.5	18	M14*1.0	25	21	5	3	12	15	SW 12.1/Ø14.1
2C	MEG	21	22	M16*1.0	25	21	5	5	18	18	SW 18.1/Ø16.1
3C	MEG	26	25	M20*1.0	32	26.5	7	4	18	-	SW 18.1/Ø20.1

ZHG Fixed socket, nut fixed, locating pin (g) or locating pin (a---m LR), protruding shell



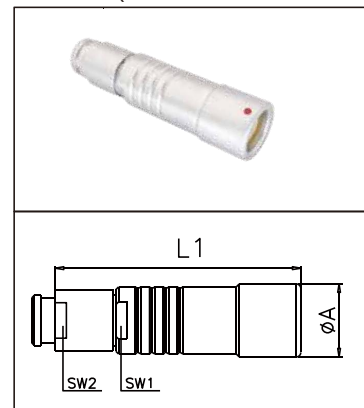
Project		Dimension (mm)								Panel opening drawing
Series	Model	A	M	L1	L2	L3	L4	SW1	SW2	
0C	ZHG	14	M9*0.5	22	17.5	4	11.5	8.2	12	SW 8.3/Ø9.1
1C	ZHG	18.5	M14*1.0	26	21	4.5	13.5	12	14	SW 12.1/Ø14.1
2C	ZHG	21	M16*1.0	28	23	4	15.5	13.5	17	SW 13.6/Ø16.1
3C	ZHG	24	M18*1.0	33	26.5	6	16.2	16.5	20	SW 16.6/Ø18.1

XHG Floating socket, locating pin (g) or locating pin (a---m), cable clamp (for connection between cables)



Project		Dimension (mm)			
Series	Model	L1	A	SW1	SW2
0C	XHG	36	10	8	8
1C	XHG	43	13	10	9
2C	XHG	50	15	13	13
3C	XHG	56	18	16	15

XHG Floating socket, locating pin (g) or locating pin (a---m), cable clamp and sheathed tail cap. (for connection between cables)



Project		Dimension (mm)			
Series	Model	L1	A	SW1	SW2
0C	XHG	39	10	8	8
1C	XHG	45	13	10	9
2C	XHG	50	15	13	13
3C	XHG	60	18	16	15

F series

Safety split push-pull self-locking system

Lp50 (IP68), multi-core 2-30 core

Welding and PCB pin cores (straight and angled)



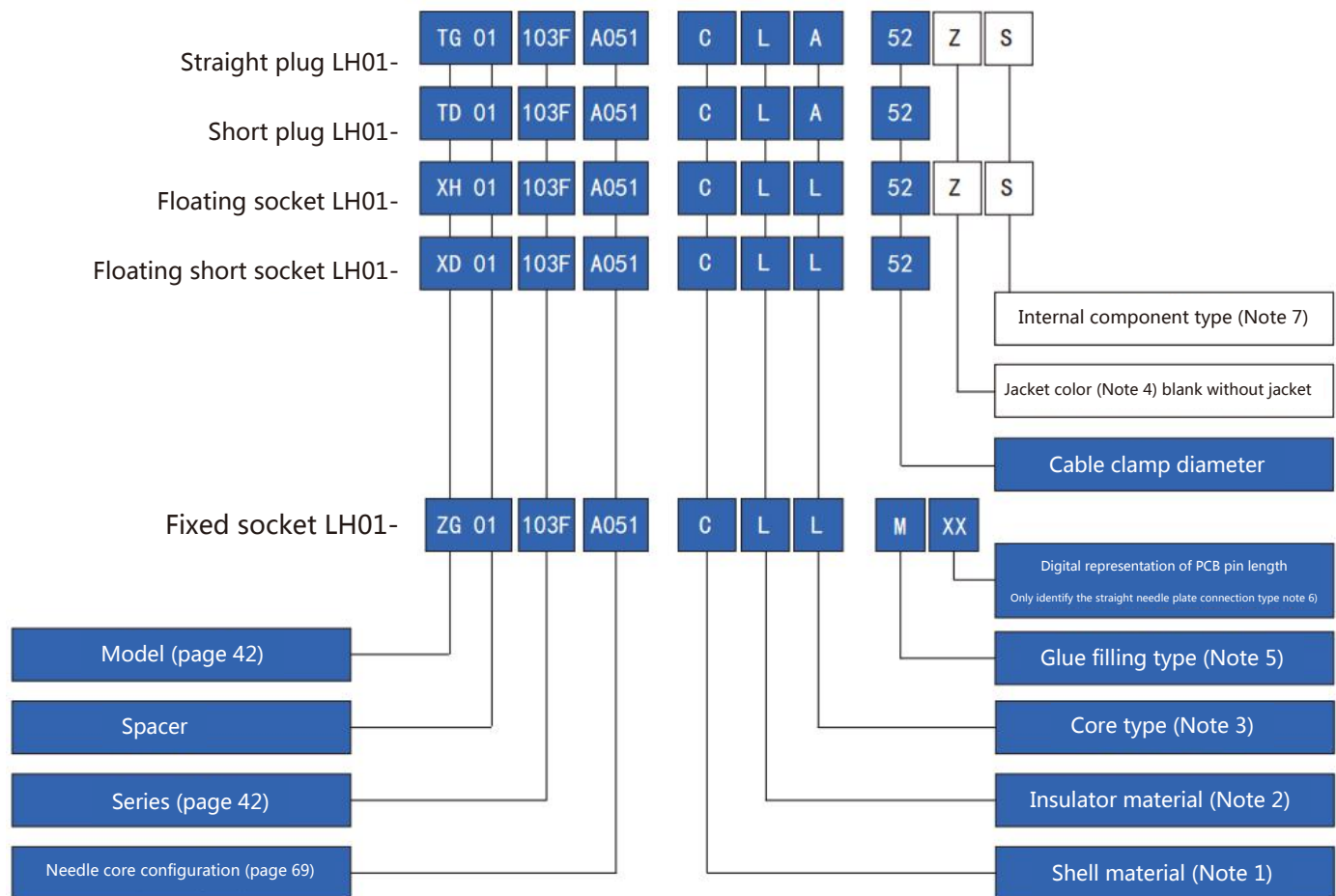
High density installation, space saving

Internal semicircular ring positioning to avoid wrong insertion

360 degree shielding provides comprehensive EMC protection (anti electromagnetic interference)

Circular outdoor connector features

Product numbering rules:



- Note 1:** C= Chrome plated brass, K= black chrome plated brass, N= nickel plated brass, T= stainless steel, L= aluminum alloy anodizing, H= chrome plated rubber coated brass (Applicable to ZP and ZX printed board angle socket)
- Note 2:** L=PPS, G=PEEK, T=PTFE, R=PPSU
- Note 3:** A= welding pin, L= welding socket, N= plate to straight jack, D= board connected straight pin, V= plate bending socket
- Note 4:** Z= black, G= grey, A= blue, R= red, J= yellow, V= green
- Note 5:** W= silicone seal, M= epoxy resin seal (seal type only)
- Note 6:** 25=2.5mm, 30=3mm, 35=3.5mm, 40=4mm
- Note 7:** S= protective, U= unprotected, M= waterproof

Example of product number:

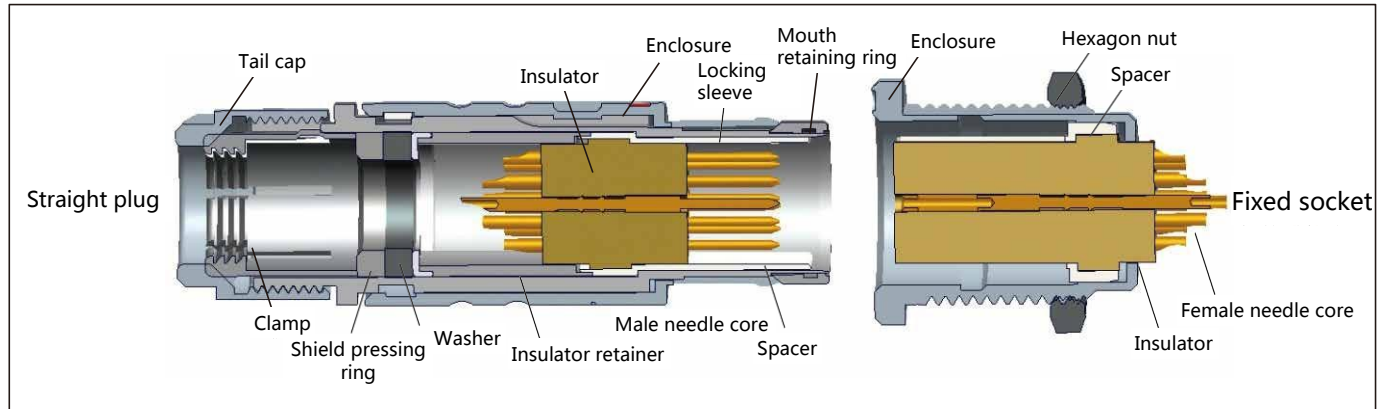
Straight plug with clamp
 TG 01.103F. A051.CLA52ZS= Straight plug, single-chip semicircular ring positioning (g), with clamp, 103F series, multi-core type, 2-core, brass chrome plated shell, PPS insulator, welded male pin core, suitable for cable with outer diameter of 5.0mm, with black sheath, and the component type is protective.

Straight short plug with clamp
 TD 01.103F. A051.CLA52= Straight short plug, single half circle ring positioning (g), with clamp, 103F series, multi-core type, 2-core, brass chrome plated shell, PPS insulator, welded male pin core, suitable for cable with an outer diameter of 5.0mm.

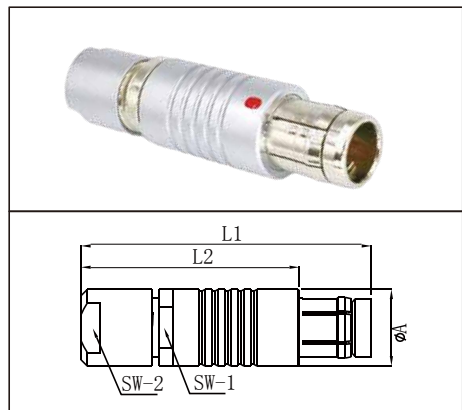
Floating socket
 XH 01.103F. A051.CLL52Z= Floating socket, single-chip semicircular ring positioning (g), with clamp, 103F series, multi-core type, 2-core, brass chrome plated shell, PPS insulator, welded female pin core, suitable for cable with outer diameter of 5.0mm, with black sheath.

Fixed socket
 ZG 01.103F. A051.CLL= Fixed socket, nut fixed, single half circle ring positioning (g), 103F series, multi-core type, 2-core, brass chrome plated housing, PPS insulator, welded female pin core.

Product profile:

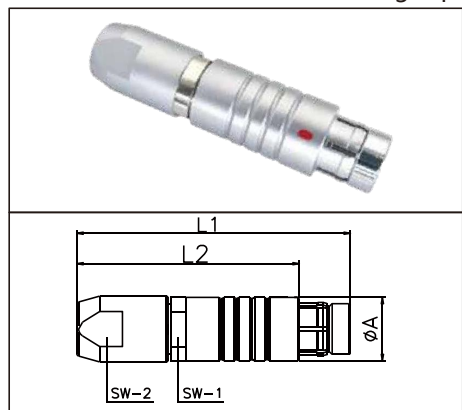


TN/TG Standard universal straight plug, semicircular ring positioning (g or a), cable



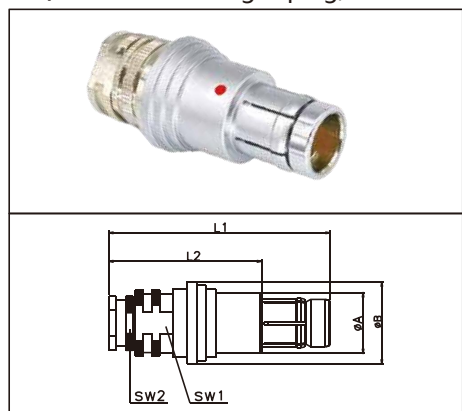
Project		Dimension (mm)				
Series	Model	A	L1	L2	SW1	SW2
102F	TN/TG	9.5	35	25	8	8
103F	TN/TG	12	46	35	10	9
1031F	TN/TG	12.5	49	39	11	11
104F	TN/TG	15	51	39	13	13
105F	TN/TG	18	62	47	16	15

TN/TG Standard universal straight plug, semicircular ring positioning (or a), cable clamp and sheath type tail cover



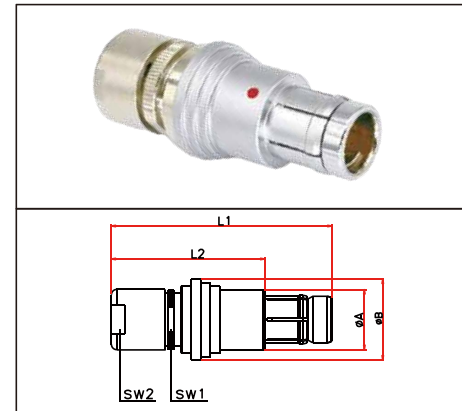
Project		Dimension (mm)				
Series	Model	A	L1	L2	SW1	SW2
102F	TN/TG	11.5	51	27	8	8
103F	TN/TG	13.5	52	41	10	9
1031F	TN/TG	12.5	58	48	11	11
104F	TN/TG	16.5	57	45	13	13
105F	TN/TG	18	68	53	16	15

TD/TC Short straight plug, semicircular ring positioning (g or a), cable clamp



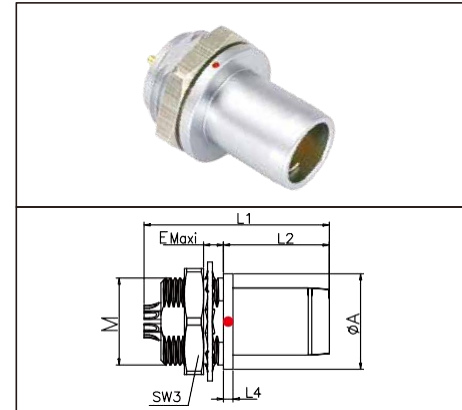
Project		Dimension (mm)					
Series	Model	A	B	L1	L2	SW1	SW2
102F	TD/TC	12	9.5	33	22	10	11
103F	TD/TC	12.4	12.5	33	23	10	11
1031F	TD/TC	12.5	13	33	23	10	11
104F	TD/TC	18	15.3	44	29	15	16
105F	TD/TC	18	18.4	44	29	15	16

TR/TB Short straight plug, semicircular ring positioning (g or a), cable clamp



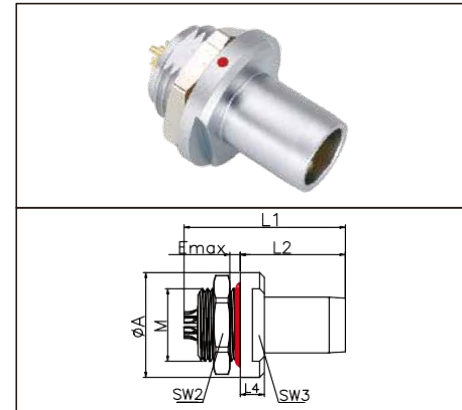
Project		Dimension (mm)					
series	model	A	B	L1	L2	SW1	SW2
102F	TR/TB	11.5	9.5	34.5	24.5	8	8
103F	TR/TB	13.5	12.5	42	30	11.5	12
1031F	TR/TB	12.5	13	37	47	11	11
104F	TR/TB	16.5	15.3	48	36	13	13
105F	TR/TB	18	18.4	48	33	16	16

TA Fixed plug, nut fixed, without locking device, semicircular ring positioning (g or a)



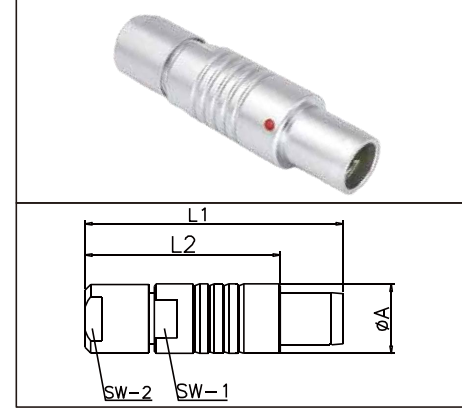
Project		Dimension (mm)						
series	model	A	M	L1	L2	L4	E	SW3
102F	TA	10	M9*0.5	20	11	1	4	11
103F	TA	14	M12*1.0	23.5	12.5	1.5	3	14
1031F	TA	16	M14*1.0	26	12	2	4	17
104F	TA	18	M15*1.0	28	14	2	3	17
105F	TA	22	M16*1.0	30.5	16.8	1.2	5.5	19

TY Waterproof fixed plug, nut fixed, without locking device, semicircular ring positioning (g or a)



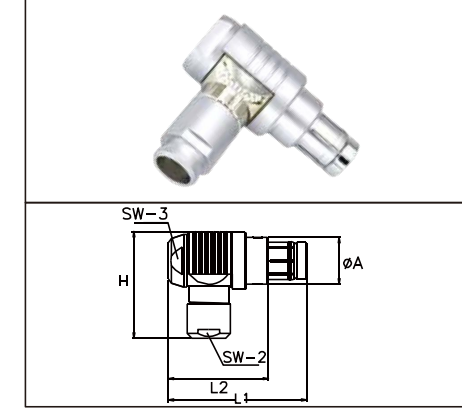
Project		Dimension (mm)							
series	model	A	M	L1	L2	L4	E	SW2	SW3
102F	TY	13	M9*0.5	21	13	3	2.5	11	9
103F	TY	17	M12*1	26	14	3	5	14	12
1031F	TY	19	M14*1	26.5	13.7	3.7	4	17	12
104F	TY	22	M16*1	28	15	3	7.5	19	12
105F	TY	27	M20*1	32	17	4	6	25	-

TF Straight plug, without locking device, semicircular ring positioning (g or a), cable clamp and sheath type tail cap



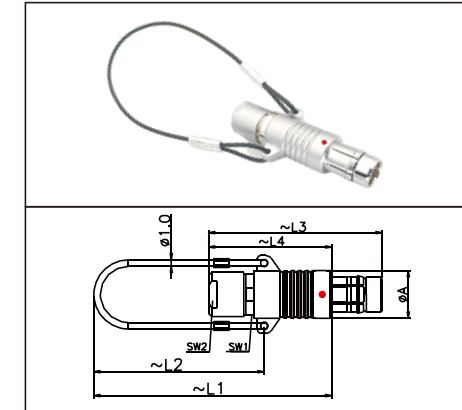
Project		Dimension (mm)				
series	model	A	L1	L2	SW1	SW2
102F	TF	11.5	34.5	24.5	8	8
103F	TF	13.5	42	30	10	9
104F	TF	16.5	48	36	13	13
105F	TF	16.5	48	36	13	13

TH 90 degree angle plug, semicircular ring positioning, cable clamp



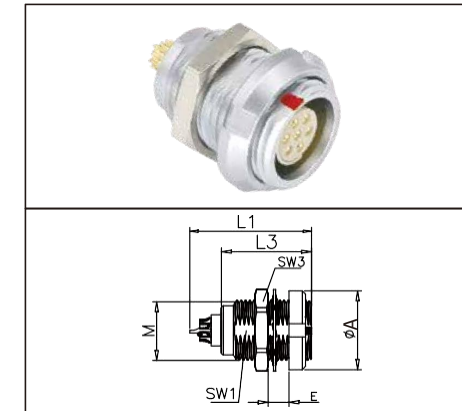
Project		Dimension (mm)					
Series	Model	A	L1	L2	H	SW2	SW3
102F	TH	12	33	23	25	7	8
103F	TH	15	38	27	31	10	11
1031F	TH	17	39	29	33	12	12
104F	TH	19	39	29	33	12	14
105F	TH	23	45	32	37	15	17

TQ Straight plug, locating pin (g) or locating pin (a---m and R), cable clamp and tail cap with protective sleeve (unlocking pull rope)



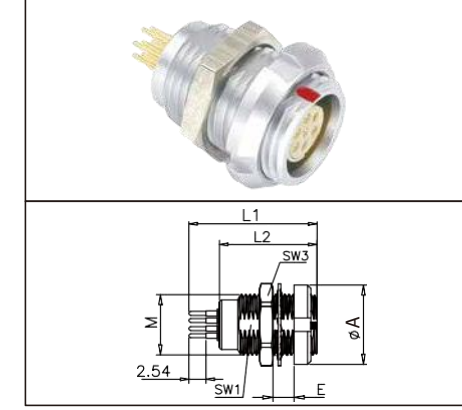
Project		Dimension (mm)						
Series	Model	A	L1	L2	L3	L4	SW1	SW2
102F	TQ	9	65	50	36	26	7	7
103F	TQ	11	77	60	46	35	10	10
1031F	TQ	13	75	55	48	38	11	12
104F	TQ	15	84	65	50	38	13	12
105F	TQ	18	96	70	62	47	16	15

ZC Fixed socket, fixed with double nuts, both inside and outside the chassis



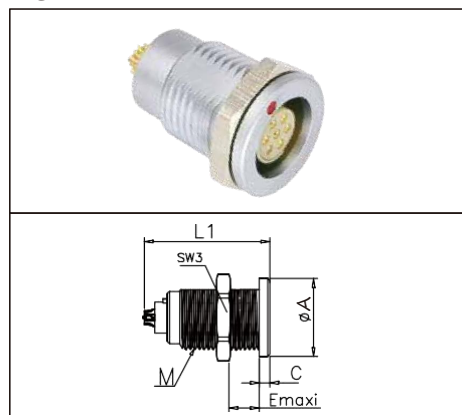
Project		Dimension (mm)						
Series	Model	A	L1	L2	M	E	SW1	SW3
102F	ZC	12	20	14.5	M9*0.5	8	8	11
103F	ZC	15	24	16.5	M12*1.0	8	10	14
1031F	ZC	19	24	15.5	M14*1.0	8	12	17
104F	ZC	20	27.5	18.5	M15*1.0	10	13.5	17
105F	ZC	23	30.5	22.5	M18*1.0	14	16.5	22

ZC Fixed socket, double nut fixing (PCB), both inside and outside the chassis



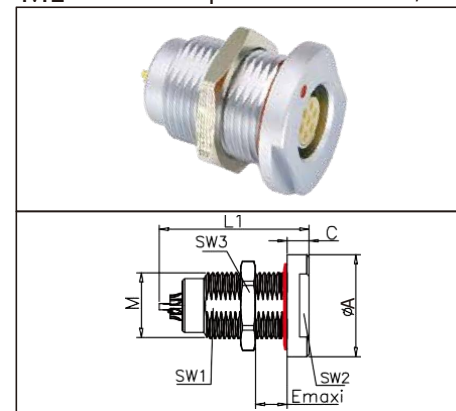
Project		Dimension (mm)						
Series	Model	A	L1	L2	M	E	SW1	SW3
102F	ZC	12	19	14	M9*0.5	8	8	11
103F	ZC	15	23	15	M12*1	8	10	14
1031F	ZC	18	23	18	M14*1	8	12	17
104F	ZC	19	26	18	M15*1	10	13.5	17
105F	ZC	23	30	24	M18*1	14	16.5	22

ZG Fixed socket, nut fixed, fixed in the chassis



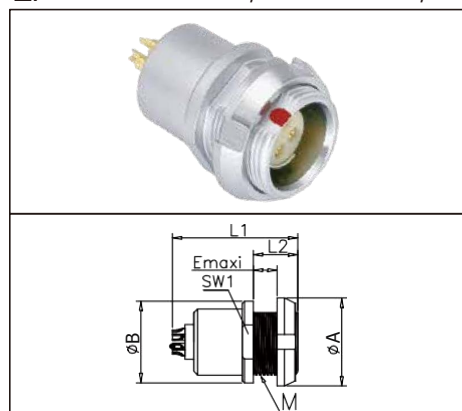
Project		Dimension (mm)					
Series	Model	A	L1	M	E	C	SW3
102F	ZG	11	19	M9*0.5	9	1.5	11
103F	ZG	14	23	M12*1	8	1.5	14
1031F	ZG	16	25	M14*1	10	2	17
104F	ZG	19	25	M15*1	11	2.2	17
105F	ZG	22	32	M18*1	15	2	22

ML Waterproof fixed socket, fixed with nut, fixed in the chassis, watertight or vacuum sealed



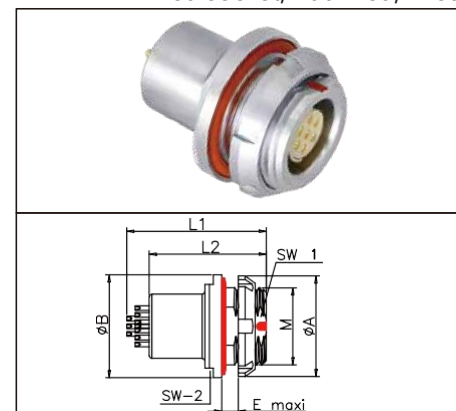
Project		Dimension (mm)							
Series	Model	A	L1	E	M	C	SW1	SW2	SW3
102F	ML	14	20	10	M9*0.5	2.5	9	11	11
103F	ML	18	23	12	M14*1.0	3	11	14	17
1031F	ML	19	25	12	M14*1.0	3	14	15	17
104F	ML	22	25	15	M16*1.0	4	18	17	19
105F	ML	27	33	18	M20*1.0	4	18	-	25

ZP Fixed socket, fixed with nut, fixed outside the chassis



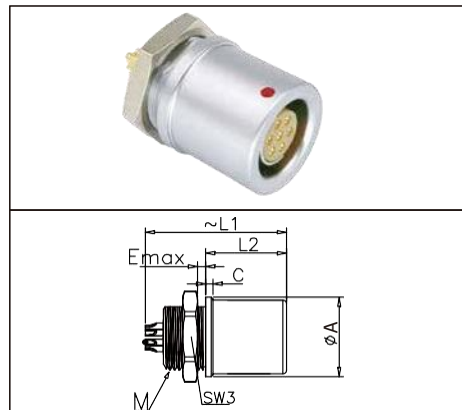
Project		Dimension (mm)						
Series	Model	A	B	L1	L2	M	E	SW1
102F	ZP	11	12	20	6.5	M9*0.5	3.5	10
103F	ZP	14	15	23	8	M12*1	4	-
1031F	ZP	16	18	23	7	M14*1	4	-
104F	ZP	19	19	26	9	M15*1	5	-
105F	ZP	22	23	30	17	M18*1	12	-

ME Fixed socket, nut fixed, fixed outside the chassis, watertight or vacuum sealed



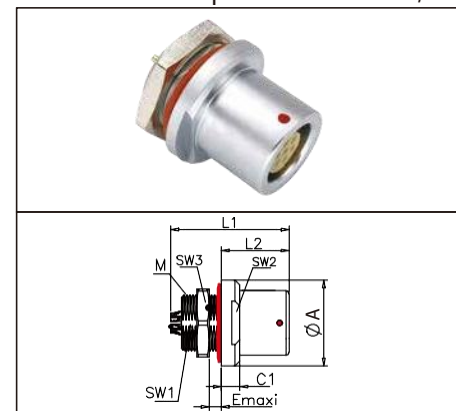
Project		Dimension (mm)								Panel opening drawing
Series	Model	A	B	L1	L2	M	C	SW1	SW2	
102F	ME	14	12	21	17	M9*0.5	3.5	8.2	11	
103F	ME	18	18	26	21	M9*0.5	3	12	15	SW12.1/Ø14.1
1031F	ME	19	18	23	20	M14*1.0	3	12	15	SW12.1/Ø14.1
104F	ME	22	20	26	23.5	M16*1.0	4	14.3	-	SW14.1/Ø16.1
105F	ME	27	25	30	24	M20*1.0	5	18	-	SW18.1/Ø20.1

ZH Fixed socket, nut fixed, fixed in the chassis, protruding shell



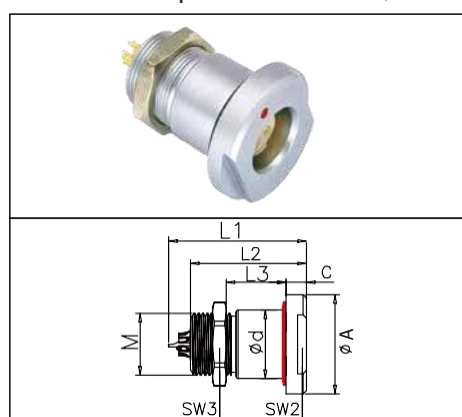
Project		Dimension (mm)						
Series	Model	A	L1	L2	M	C	E	SW3
102F	ZH	11	18	11	M9*0.5	1	3	11
103F	ZH	14	21	11.5	M12*1.0	1.5	4	14
104F	ZH	19	26	14.5	M16*1.0	2.5	3	19
105F	ZH	22	33	19	M18*1.0	2	7	22

MH Waterproof fixed socket, fixed protruding housing, watertight or vacuum sealed



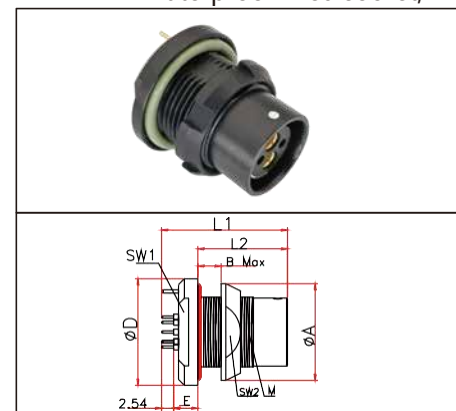
Project		Dimension (mm)								
Series	Model	A	L1	L2	M	C1	E	SW1	SW2	SW3
102F	ML	14.5	22.5	11	M9*0.5	2.5	5	8.2	12	11
103F	ML	18	26	15.5	M14*1.0	3	4	12	14	17
1031F	ML	19	28	13.6	M14*1.0	3	5	12	15	17
104F	ML	21	30	15.5	M16*1.0	4	4	14	17	19

MR Waterproof fixed socket, fixed in the chassis (applicable to thicker panels), watertight or vacuum sealed



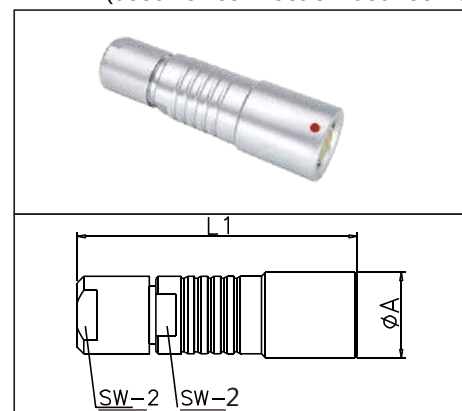
Project		Dimension (mm)									Panel opening drawing
Series	Model	A	L1	L2	L3	M	C	d	SW2	SW3	
102F	MR	14.5	22.5	18.5	8	M9*0.5	3	10	11	11	
103F	MR	18	26	22.5	9	M14*1.0	3	14	14	17	Ø14.1
1031F	MR	19	27	21.5	7	M14*1.0	3.5	14	15	17	Ø14.1
104F	MR	22	29	23	8	M16*1.0	4	16	17	19	Ø16.1
105F	MR	26	32	26.5	32	M20*1.0	4	20	24	25	Ø20.1

MLU Waterproof fixed socket, fixed protruding housing, watertight or vacuum sealed



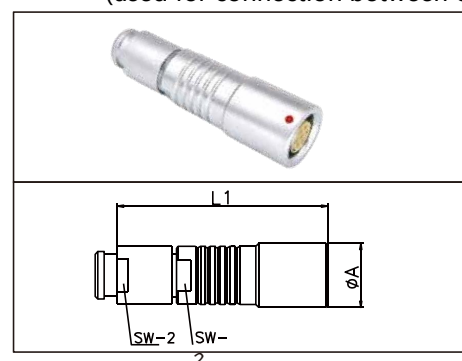
Project		Dimension (mm)								
Series	Model	A	B	L1	M	L2	D	E	SW1	SW2
102F	MLU	13	4.5	21	M10*0.5	14.2	14	3.6	11	11
103F	MLU	18	5	24	M14*1	16.5	18	4.2	15	15
1031F	MLU	20	5.5	23	M15*1	16	19	4.2	15	17
104F	MLU	20	6.5	27	M16*1	18.5	22	5	17	17
105F	MLU	25	7	31	M20*1	22.5	27	5.5	22	22

XH Floating socket, cable clamp to fix cable, semicircular ring positioning (g or a) to prevent misinsertion, (used for connection between cables)



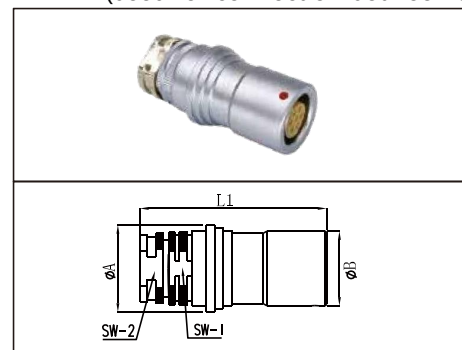
Project		Dimension (mm)			
Series	Model	A	L1	SW2	SW1
102F	XH	10	35	7	7
103F	XH	13	43	10	10
1031F	XH	13.5	46	12	11
104F	XH	16	50	12	13

XH Floating socket, cable clamp to fix cable, semicircular ring positioning (g or a) to prevent misinsertion, (used for connection between cables)



Project		Dimension (mm)			
Series	Model	A	L1	SW2	SW1
102F	XH	10	35	7	7
103F	XH	13	43	10	10
1031F	XH	13.5	46	12	11
104F	XH	16	50	12	13

XD Short floating socket, cable clamp to fix cable, semicircular ring positioning (g or a) to prevent misinsertion, (used for connection between cables)



Project		Dimension (mm)				
Series	Model	A	B	L1	SW2	SW1
102F	XD	12	10	28	7	8
103F	XD	15	13	32	10	11
1031F	XD	15.5	13.5	31	10	11
104F	XD	18	16	35	12	13

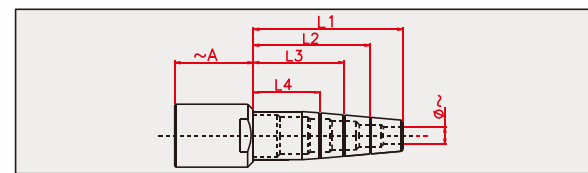
F series panel opening size

Serial number	102		103		1031		104		105						
	Type	A	B	Type	A	B	Type	A	B	Type	A	B			
Ta (In-line)	4	9.1	8.1	2	12.1	11.2	3	14.1	12.1	2	15.1	14.2	1	16.1	-
Ty (Sealed in-line)	1	9.1	-	2	12.1	11.2	3	14.1	12.1	2	16.1	15.3	2	20.1	19.1
ZG (Internal fixation)	2	9.1	8.5	2	12.1	11.2	3	14.1	12.1	2	15.1	14.2	2	18.1	17.3
MI (Internal fixed seal)	1	10.1	-	1	14.1	-	1	14.1	-	1	16.1	-	1	20.1	-
DB (External fixed seal)	4	9.1	8.0	2	14.1	13.3	3	14.1	12.1	2	16.1	15.3	2	20.1	19.1
ZC (Double nut)	2	9.1	8.5	2	12.1	11.2	3	14.1	12.1	2	15.1	14.2	2	18.1	17.3
MH (Protruding seal)	1	9.1	-	1	14.1	-	2	14.1	13.2	1	16.1	-	1	18.1	-
ZH (Protruding type)	2	9.1	8.5	2	12.1	11.2	-	-	-	1	16.1	-	2	18.1	17.3
ZP (External fixation)	2	9.1	8.5	2	12.1	11.2	3	14.1	12.1	2	15.1	14.2	2	18.1	17.3

Spacer

	102F	103F	1031F	104F	105F	102F	103F	1031F	104F	105F
Code 01										
Code 02										
Code 03										

Sheath



Series	Dimension (mm)		
	Adapter cable	L	A
102F	1.5-3.4	L1=21	10
	3.5-4.5	L1=21	
103F	3.0-4.0	L1=26	17
	4.0-5.0	L2=21	
1031F	3.0-4.0	L1=26	18
	4.0-5.0	L2=21	
	5.0-6.5	L3=16	

Series	Dimension (mm)		
	Adapter cable	L	A
104F	4.0-5.0	L1=31	18
	5.0-6.5	L2=25	
	6.0-7.5	L3=18	
105F	4.0-5.0	L1=37	21
	5.5-6.5	L2=31	
	7.0-8.5	L3=24	
	8.5-10.5	L4=18	

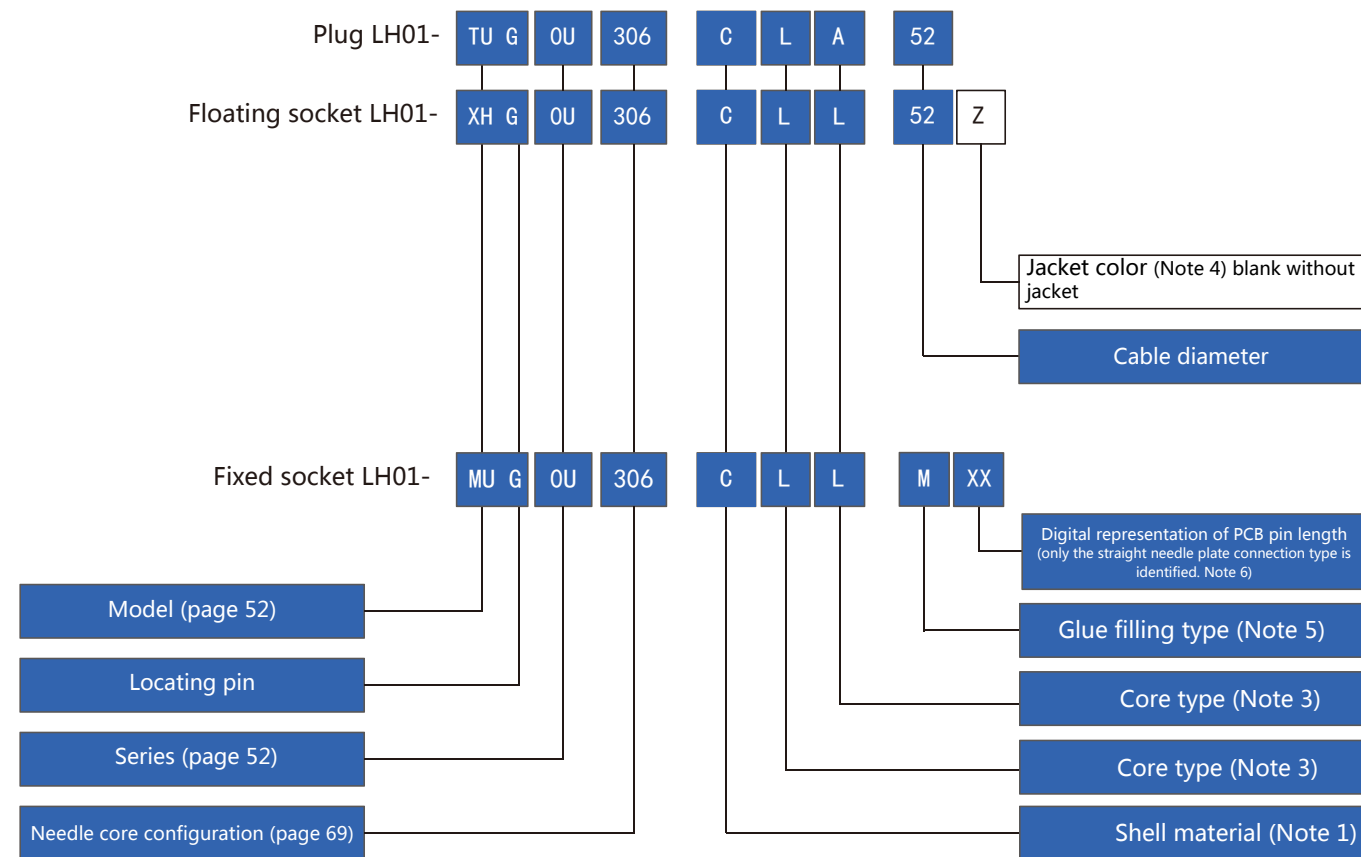


U series connector Military connector (harsh environment)

1. Safe push-pull self-locking system
2. Multi core type, 2-13 cores
3. Welding and PCB pin cores (straight and angled)
4. High density installation, space saving, opening size m7/ms/m10
5. Three key position slot + double semicircle positioning double positioning anti freeze
6. 360 degree shielding provides comprehensive EMC protection (anti electromagnetic interference)
7. IP68, plug and unplug 5000-10000 times



Product numbering rules:



- Note 1:**
C= Chrome plated brass
K= Black chrome plated brass
N= Nickel plated brass
T= Stainless steel
L= Aluminum alloy anodizing
H= Chrome plated rubber coated brass (applicable to ZPG and ZXG printed board angle socket)
- Note 2:**
L=PPS
G=PEEK
T=PTFE
R=PPSU
- Note 3:**
A= Welding pin
L= Welding socket
N= Plate to straight jack
D= Plate connection straight pin
V= Plate connection bending jack
- Note 4:**
Z= Black
G= Grey
A= Blue
R= Red
J= Yellow
V= Green
- Note 5:**
W= Silicone seal
M= Epoxy resin seal (Seal type only)
- Note 6:**
25=2.5mm
30=3mm
35=3.5mm
40=4mm

Example of product number:

Straight plug with clamp

TUG. 0U. 306.CLA52= straight plug, locating pin (g), with clamp, 0U series, multi-core type, 6-core, yellow mace chrome plated shell, PPS insulator, welded male pin core, suitable for cables with an outer diameter of 5.0mm.

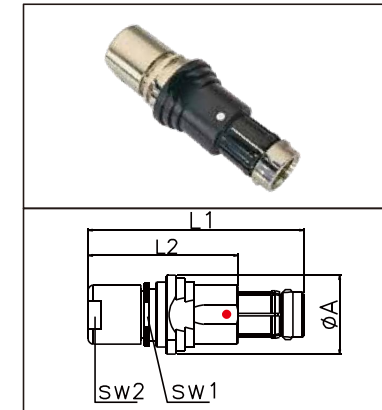
Floating socket

XHG. 0U. 306.CLL52Z= floating socket, locating pin (g), with clamp, 0U series, multi-core type, 6-core, brass chrome plated shell, PPS insulator, welded female pin core, suitable for 5.0mm outer diameter cable, with black sheath.

Fixed socket

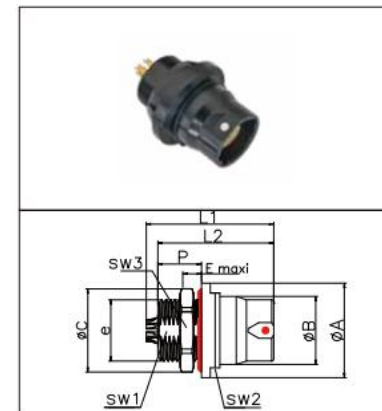
MUG. 0U. 306.CLL= fixed socket, nut fixed, locating pin (g), 0U series, multi-core type, 6-core, brass chrome plated housing, PPS insulator, welded female pin core.

TUG Standard universal straight plug, semicircular ring positioning (g or a), cable



Project		Dimension (mm)				
Series	Model	A	L1	L2	SW1	SW2
OU	TUG	12	32.5	22.5	8	8

MUG Fixed socket



Project		Dimension (mm)										Panel opening drawing	
Series	Model	A	B	E	P	L1	L2	C	e	SW1	SW2	SW3	
OU	MUG	14	10	4	6.5	20.5	17	11	M9*0.5	7.8	11	11	SW 7.9/Ø9.1

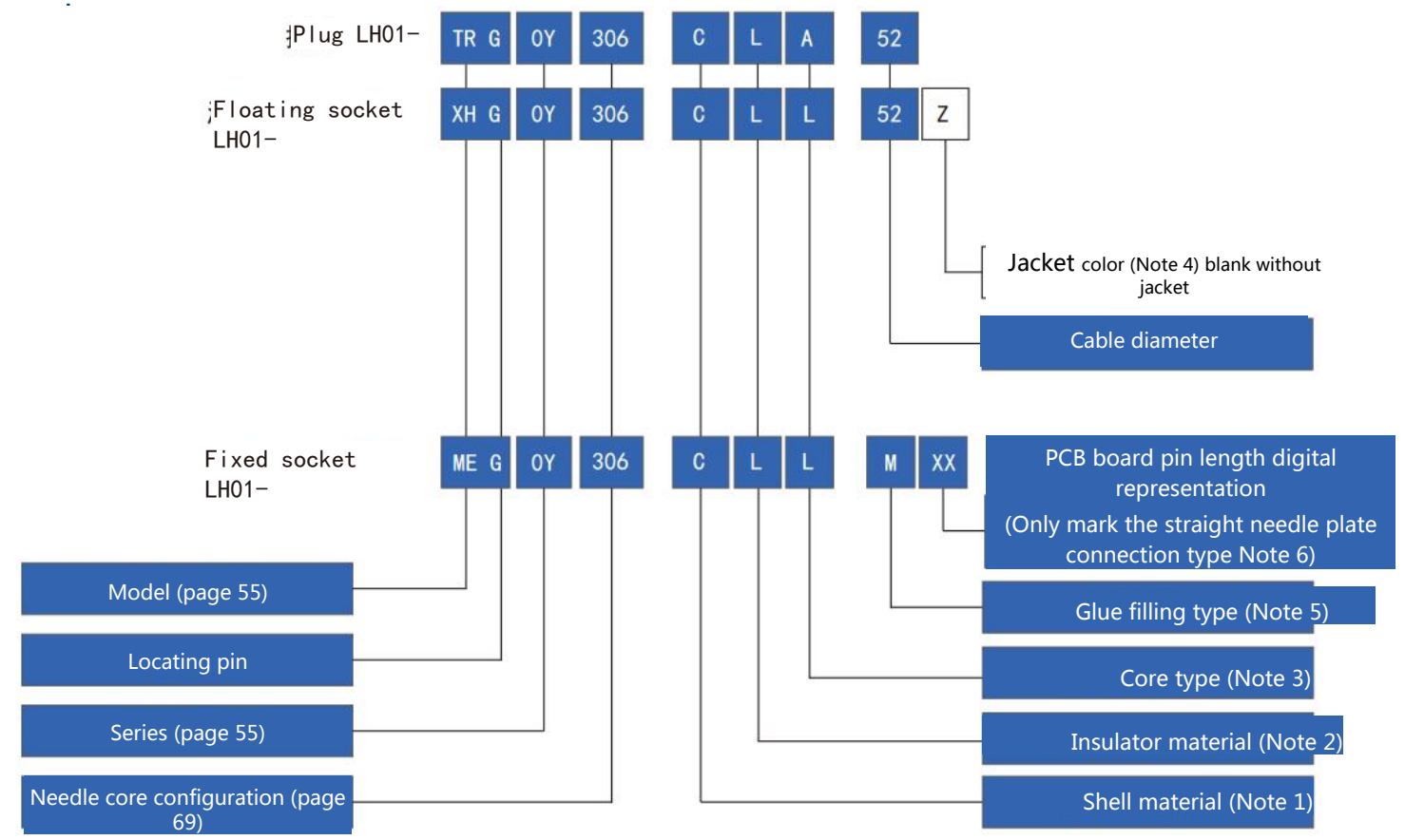


Y Series

Military industrial DC AC connector

- Safety split push-pull self-locking system
- Multi core type, 2-16 cores
- Welding and PCB pin cores (straight and angled)
- High density installation, space saving, opening size m9/m145
- Double key slot + double semicircle double positioning anti freeze
- 360 degree shielding provides comprehensive EMC protection (anti electromagnetic interference)
- IP68, 5000 times of plugging

Product numbering



- | | | | | | |
|--|---|---|---|---|--|
| Note 1:
C= chrome plated brass
K= black chrome plated brass
N= nickel plated brass
T= stainless steel I= aluminum alloy anodizing | Note 2:
L=PPS
G=PEEK
T=PTFE
R=PPSU | Note 3:
A= welding pin
L= welding socket
N= plate to straight jack
D= plate connection straight pin v= plate connection bending jack | Note 4:
Z= black
G= grey
A= blue
R= red
j=yellow
V=green | Note 5:
W= silicone seal
M= epoxy resin seal
(seal type only) | Note 6:
25=2.5mm
30=3mm
35=3.5mm
40=4mm |
|--|---|---|---|---|--|

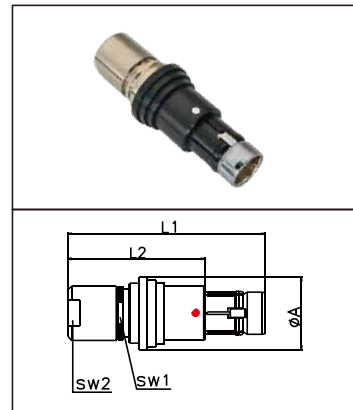
Example of product number:

Straight plug with clamp
 TRG. OY. 306.clA52= straight plug, locating pin (g), with clamp, OY series, multi-core type, 6-core, yellow mace chrome plated shell, PPS insulator, welded male pin core, suitable for cables with an outer diameter of 5.0mm.

Floating socket
 XHG. OY. 306.clL52z= floating socket, locating pin (g), with clamp, OY series, multi-core type, 6-core, brass chrome plated shell, PPS insulator, welded female pin core, suitable for 5.0mm outer diameter cable, with black sheath.

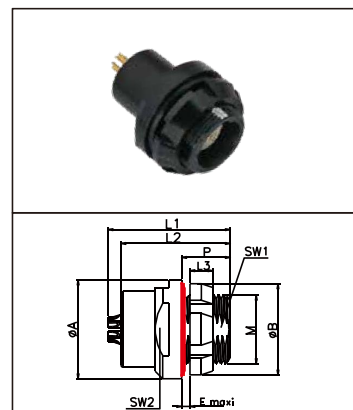
Fixed socket
 MEG. OY. 306.clL= fixed socket, nut fixed, locating pin (g), OY series, multi-core type, 6-core, brass chrome plated housing, PPS insulator, welded female pin core.


TRG Socketstandard universal straight plug, semicircular ring positioning (g or a), cable



Project		Dimension (mm)				
Series	Model	A	L1	L2	SW1	SW2
OU	TUG	12	32.5	22.5	8	8

MEG Fixed socket



Project		Dimension (mm)									Panel opening drawing
Series	Model	A	B	E	P	L1	L2	e	SW1	SW2	
OU	MEG	13	12	16.5	14.5	3.5	6.5	M9*0.5	8.2	11	SW 8.3/Ø9.1



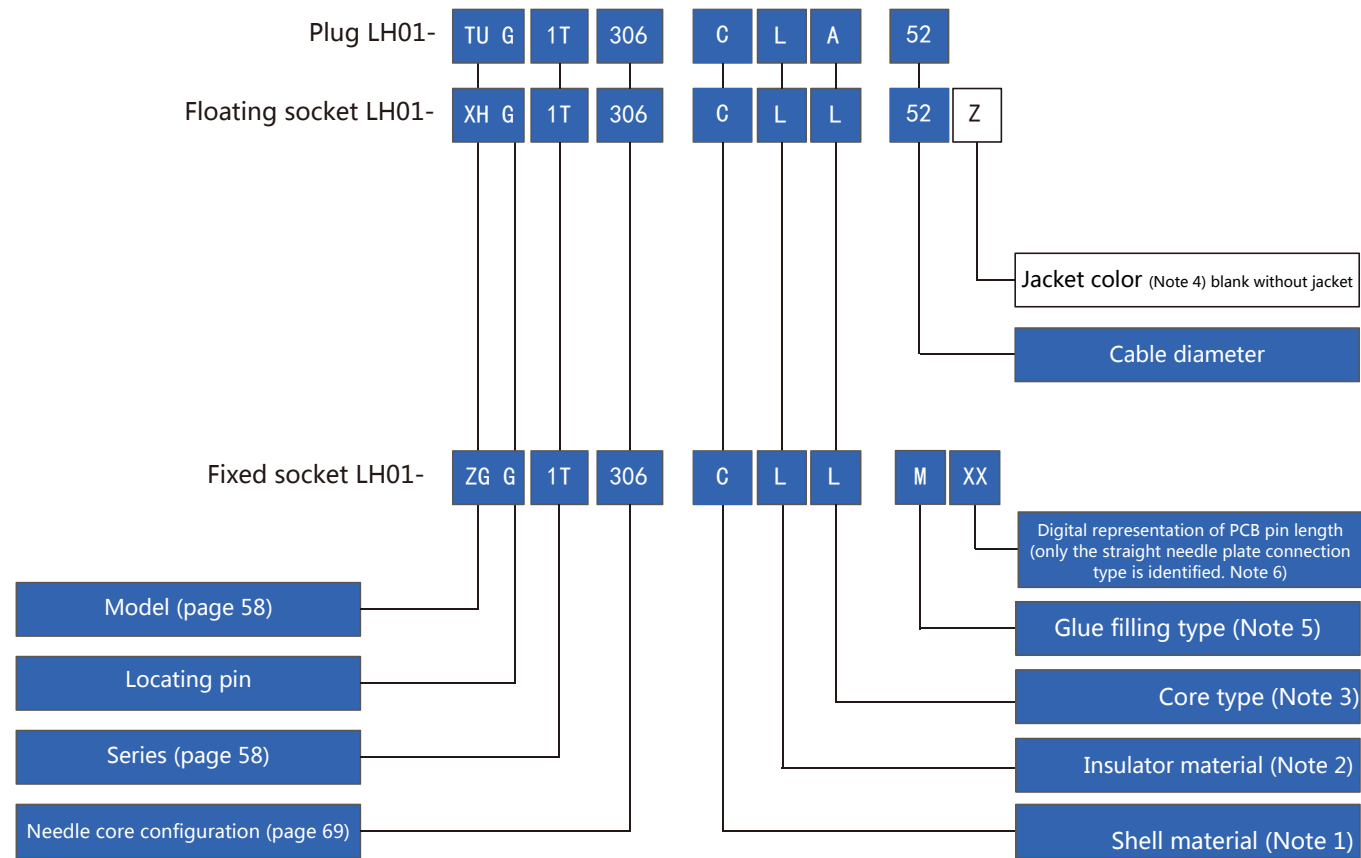
T series connector

Main features

1. Safe push-pull self-locking system
2. Multi core type, 2-30 cores
3. Welding and PCB pin cores (straight and angled)
4. High density installation, space saving, opening size m9/m12/m15/m18
5. Multi key position selection to avoid mixed insertion
6. Locating pin system (G is the standard locating pin) is used for connector positioning
7. 360 degree shielding provides comprehensive EMC protection (anti electromagnetic interference)
8. Ip66-ip68, 5000 times of plugging



Product numbering rules:



- Note 1:** C= Chrome plated brass; K= Black chrome plated brass; N= Nickel plated brass; T= Stainless steel; L= Aluminum alloy anodizing; H= Chrome plated rubber coated brass (Applicable to ZPG and ZXG printed board angle socket)
- Note 2:** L=PPS; G=PEEK; T=PTFE; R=PPSU
- Note 3:** A= Welding pin; L= Welding socket; N= Plate to straight jack; D= Plate connection straight pin; V= Plate connection bending jack
- Note 4:** Z= Black; G= Grey; A= Blue; R= Red; J= Yellow; V= Green
- Note 5:** W= Silicone seal; M= Epoxy resin seal (Seal type only)
- Note 6:** 25=2.5mm; 30=3mm; 35=3.5mm; 40=4mm

Example of product number:

Straight plug with clamp

TGG. 1T. 306.cla52= straight plug, locating pin (g), with clamp, 1t series, multi-core type, 6-core, yellow mace chrome plated shell, PPS insulator, welded male pin core, suitable for cables with an outer diameter of 5.0mm.

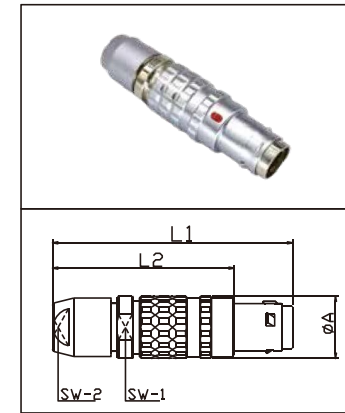
Floating socket

XHG. 1t306.cll52z= floating socket, locating pin (g), with clamp, 1t series, multi-core type, 6-core, brass chrome plated shell, PPS insulator, welded female pin core, suitable for 5.0mm outer diameter cable, with black sheath.

Fixed socket

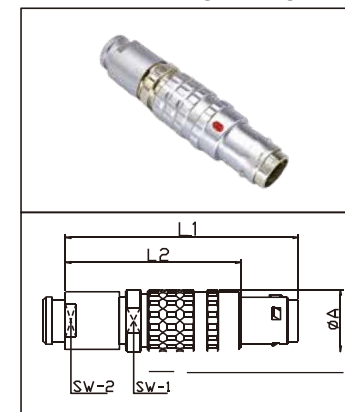
ZGG. 1T. 306.cll= fixed socket, nut fixed, locating pin (g), 1t series, multi-core type, 6-core, brass chrome plated housing, PPS insulator, welded female pin core.

TGG Straight plug, cable clamp



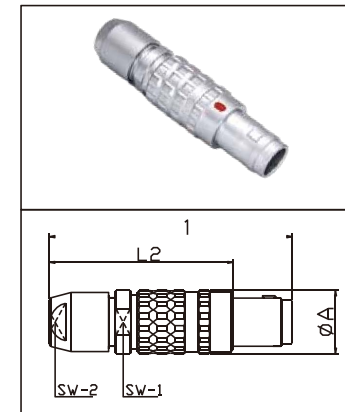
Project		Dimension (mm)				
Series	Model	A	L1	L2	SW1	SW2
00T	TGG	7.0	32.7	24.7	5.5	6
0T	TGG	9.5	38.0	28.0	7.5	7
1T	TGG	12.0	45.0	34.0	11	9
2T	TGG	15.0	54.0	42.0	14	12
3T	TGG	18.8	62.0	47.0	16	15

TGG Straight plug, cable clamp and sheathed tail cap



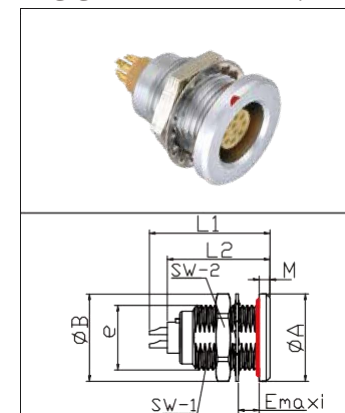
Project		Dimension (mm)				
Series	Model	A	L1	L2	SW1	SW2
00T	TGG	7.0	33.2	25.2	5.5	5
0T	TGG	9.5	39.0	29.0	7.5	7
1T	TGG	12.0	46.0	35.0	11	9
2T	TGG	15.0	55.0	43.0	14	12
3T	TGG	18.8	64.0	49.0	16	14

TFG Straight plug without locking device, cable clamp



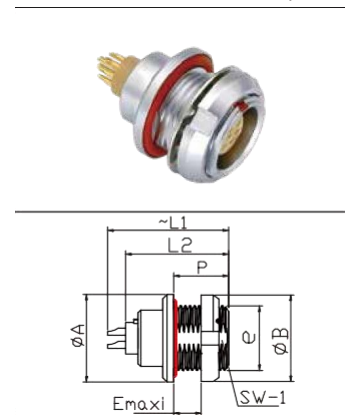
Project		Dimension (mm)				
Series	Model	A	L1	L2	SW1	SW2
00T	TFG	7.0	33.2	25.2	6	5
0T	TFG	9.5	39.0	29.0	8	7
1T	TFG	12.0	46.0	35.0	10	9
2T	TFG	15.0	55.0	43.0	13	12
3T	TFG	18.8	64.0	49.0	16	14

ZGG Fixed socket, fixed with nuts in the chassis



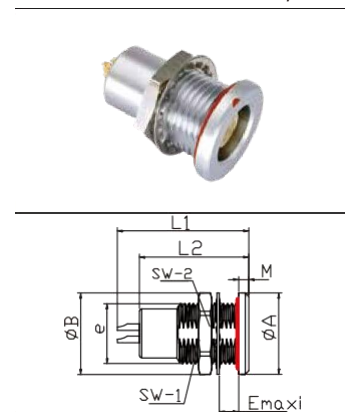
Project		Dimension (mm)									Panel opening drawing
Series	Model	A	B	e	L1	L2	M	E	SW1	SW2	
00T	ZGG	10	10.2	M7*0.5	16	13.5	1.2	6.3	5.5	9	SW 5.6/Ø7.1
0T	ZGG	12	12.5	M9*0.6	21	19.1	1.5	8.2	6	11	SW 6.1/Ø9.1
1T	ZGG	15.5	16	M12*1.0	23	21.5	1.8	10.5	6	14	SW 6.1/Ø12.1
2T	ZGG	18.5	19.6	M15*1.0	26.5	24.6	1.8	13.5	7.5	17	SW 7.6/Ø15.1
3T	ZGG	23.5	25.1	M18*1.0	30.1	25	2.5	16.5	9.6	22	SW 9.7/Ø18.1

ZEG Fixed socket, fixed with nut outside the chassis



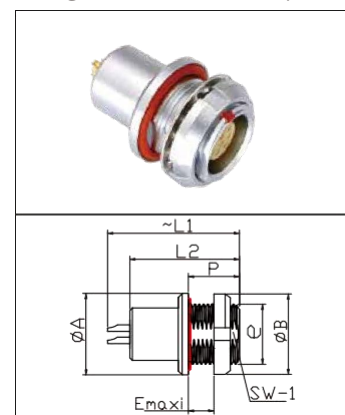
Project		Dimension (mm)								Panel opening drawing
Series	Model	A	B	e	L1	L2	P	E	SW1	
00T	ZEG	10	10	M7*0.5	16	13.5	7	4.5	6.3	SW 6.4/Ø7.1
0T	ZEG	12	12	M9*0.6	21	19.1	9	6.5	8.2	SW 8.3/Ø9.1
1T	ZEG	15.5	16	M12*1.0	23	21.5	10	6.5	10.5	SW 10.6/Ø12.1
2T	ZEG	18.5	20	M15*1.0	26.5	24.6	11	7.5	13.5	SW 13.6/Ø15.1
3T	ZEG	23.5	24	M18*1.0	30.1	25	12	7.5	16.5	SW 16.7/Ø18.1

MGG Fixed socket, nut fixed in the chassis, waterproof and vacuum sealed



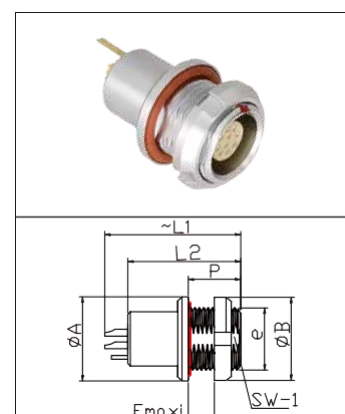
Project		Dimension (mm)									Panel opening drawing
Series	Model	A	B	e	L1	L2	M	E	SW1	SW2	
00T	MGG	10	10.2	M7*0.5	18	15	1.2	5.5	6.3	9	SW 6.4/Ø7.1
0T	MGG	12	12.5	M9*0.6	22	18.5	1.5	6.5	8.2	11	SW 8.3/Ø9.1
1T	MGG	15.5	16	M12*1.0	26	21.5	1.8	6	10.5	14	SW 10.6/Ø12.1
2T	MGG	18.5	19.6	M15*1.0	30.5	25	1.8	8	13.5	17	SW 13.6/Ø15.1

MEG Fixed socket, nut fixed outside the chassis, waterproof or vacuum sealed model



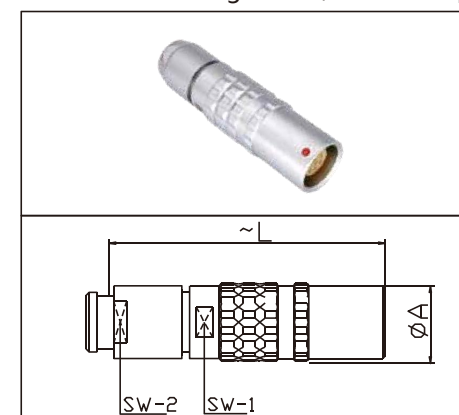
Project		Dimension (mm)								Panel opening drawing
Series	Model	A	B	e	L1	L2	P	E	SW1	
00T	MEG	10.0	10	M7*0.75	18	15	7	4.5	6.3	SW 6.4/Ø7.1
0T	MEG	12.0	12	M9*0.6	22	18.5	9	6.5	8.2	SW 8.3/Ø9.1
1T	MEG	15.5	16	M12*1.0	26	21.5	10	6.5	10.5	SW 10.6/Ø12.1
2T	MEG	18.5	16	M15*1.0	30.5	25	11	7.5	13.5	SW 13.6/Ø15.1

MMG Fixed socket with anchor, fixed with nut outside the chassis, watertight or vacuum sealing model



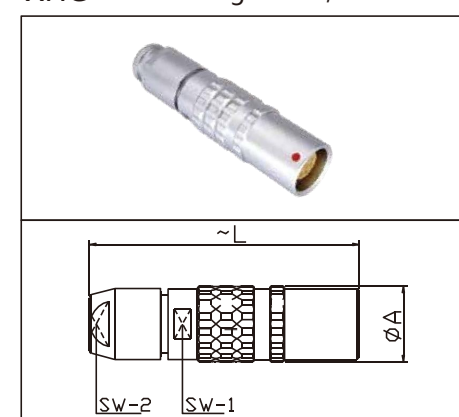
Project		Dimension (mm)								Panel opening drawing
Series	Model	A	B	e	L1	L2	P	E	SW1	
00T	MMG	10.0	10	M7*0.75	18	15	7	4.5	6.3	SW 6.4/Ø7.1
0T	MMG	12.0	12	M9*0.6	22	18.5	9	6.5	8.2	SW 8.3/Ø9.1
1T	MMG	15.5	16	M12*1.0	26	21.5	10	6.5	10.5	SW 10.6/Ø12.1
2T	MMG	18.5	20	M15*1.0	30.5	25	11	7.5	13.5	SW 13.6/Ø15.1

XHG Floating socket, cable clamp



Project		Dimension (mm)			
Series	Model	A	L1	SW1	SW2
00T	XHG	7.0	31.5	5.5	6
0T	XHG	9.5	37.0	7.5	7
1T	XHG	12.0	42.5	11	9
2T	XHG	15.0	51.0	14	12
3T	XHG	18.8	60.0	16	15

XHG Floating socket, cable clamp and sheathed tail cap



Project		Dimension (mm)			
Series	Model	A	L1	SW1	SW2
00T	XHG	7.0	32.0	5.5	5
0T	XHG	9.5	38.0	7.5	7
1T	XHG	12.0	43.5	11	9
2T	XHG	15.0	52.0	14	12
3T	XHG	18.8	61.5	16	14

Designed for outdoor and underwater applications



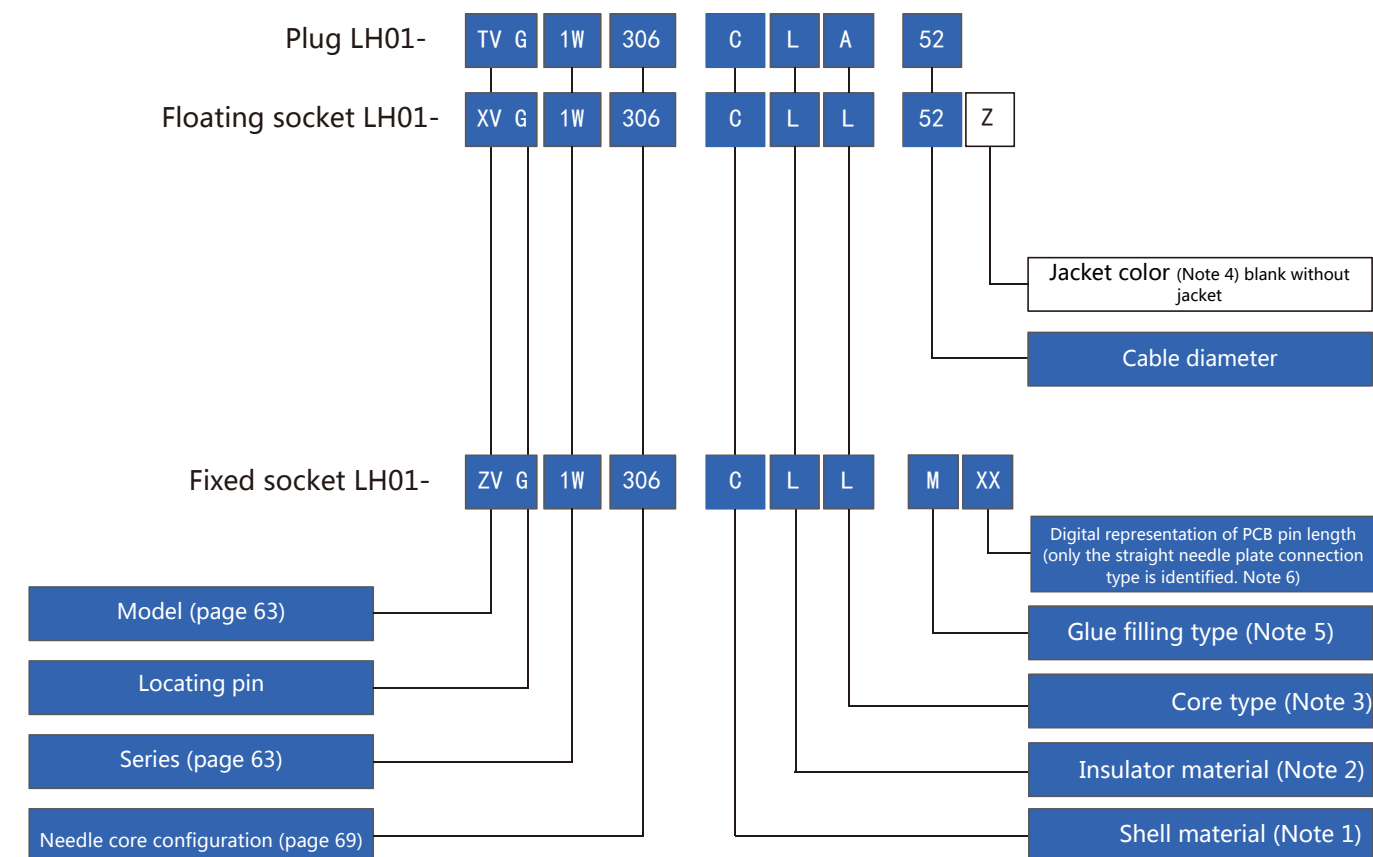
W系列

W series

Major special

1. Stable thread locking structure
2. Multi core 2-64 type
3. Welding and crimping pin cores
4. High density installation, space saving
5. 4 positioning modes available
6. Rugged housing design for harsh operating environments
7. 360 degree shielding provides comprehensive EMC protection (anti electromagnetic interference)
8. P68, plug and unplug 5000 times

Product numbering rules:



Note 1: C= Chrome plated brass K= Black chrome plated brass N= Nickel plated brass T= Stainless steel L= Aluminum alloy anodizing H= Chrome plated rubber coated brass (Applicable to ZPG and ZXG printed board angle socket)	Note 2: L=PPS G=PEEK T=PTFE R=PPSU	Note 3: A= Welding pin L= Welding socket N= Plate to straight jack D= Plate connection straight pin V= Plate connection bending jack	Note 4: Z= Black G= Grey A= Blue R= Red J= Yellow V= Green	Note 5: W= Silicone seal M= Epoxy resin seal (Seal type only)	Note 6: 25=2.5mm 30=3mm 35=3.5mm 40=4mm
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Example of product number:

Straight plug with clamp

TVG. 1W. 306.cla52= straight plug, locating pin (g), with clamp, 1W series, multi-core type, 6-core, yellow mace chrome plated shell, PPS insulator, welded male pin core, suitable for cables with an outer diameter of 5.0mm.

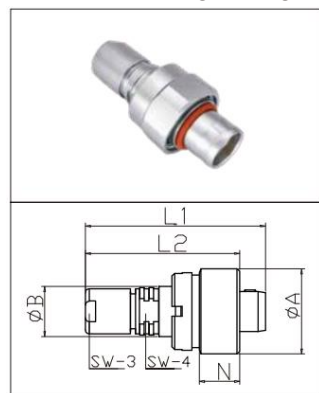
Floating socket

XVG. 1W. 306.cll52z= floating socket, locating pin (g), with clamp, 1W series, multi-core type, 6-core, brass chrome plated shell, PPS insulator, welded female pin core, suitable for 5.0mm outer diameter cable, with black sheath.

Fixed socket

ZVG. 1W. 306.cll= fixed socket, nut fixed, locating pin (g), 1W series, multi-core type, 6-core, brass chrome plated housing, PPS insulator, welded female pin core.

TVG Straight plug, cable clamp



Project		Dimension (mm)						
Series	Model	A	B	L1	L2	N	SW3	SW4
OW	TVG	17	8.9	36	29.8	13.5	8	8

TVG Straight plug, cable clamp



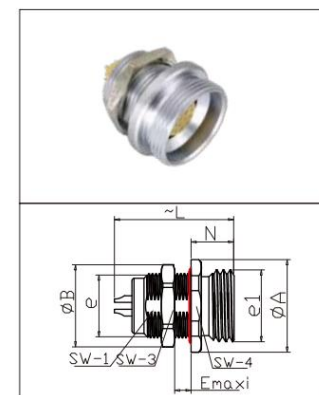
Project		Dimension (mm)								
Series	Model	A	B	L1	L2	N	SW1	SW2	SW3	SW4
0W	TVG	19.3	14.5	56.5	48.3	14	18	12	12	10
1W	TVG	23.5	17	68.5	56	15.5	22	15	15	13
2W	TVG	27.8	22	80.5	67	16.5	26	19	19	-
3W	TVG	34.3	36	105.5	91.5	17.5	32	30	32	-

TVG Straight plug without locking device, cable clamp



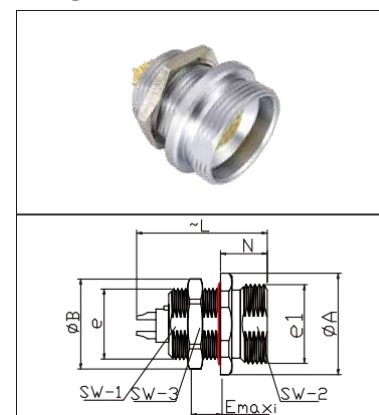
Project		Dimension (mm)						
Series	Model	A	B	L1	L2	N	SW2	SW3
0W	TVG	17	10	36	30.8	16	8	8
1W	TVG	19.3	12	43.2	35.1	18	9	10
2W	TVG	23.5	16	52.5	43	22	12	13
3W	TVG	27.5	17	61.5	48	26	15	-

MRG Fixed socket



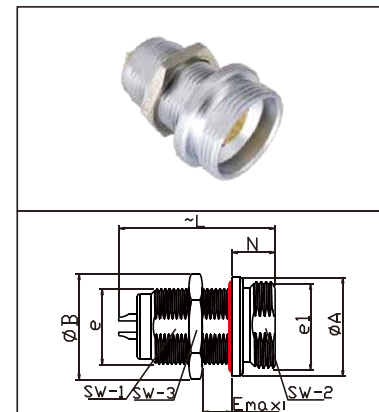
Project		Dimension (mm)									Panel opening drawing	
Series	Model	A	B	e	e1	L1	L2	E	SW1	SW3	SW4	
0W	MRG	18	16	M12*1.0	M14*1.0	24.1	8	5.5	10.5	14	17	SW 6.4/Ø7.1

ZVG Fixed socket



Project		Dimension (mm)									Panel opening drawing	
Series	Model	A	B	e	e1	L	N	E	SW1	SW2	SW3	
0W	ZVG	16.2	16	M12*1.0	M14*1.0	21.7	8	4	10.5	12.5	14	SW 10.6/Ø12.1
1W	ZVG	18.3	19.5	M14*1.0	M16*1.0	27	8	8	12.5	14.5	17	SW 12.6/Ø14.1
2W	ZVG	22.5	21.8	M16*1.0	M20*1.0	30.7	9	9	14.5	18.5	19	SW 14.6/Ø16.1
3W	ZVG	26.6	27	M20*1.0	M24*1.0	36.2	9.5	13	18.5	22.5	24	SW 18.6/Ø20.1

MVG Fixed socket



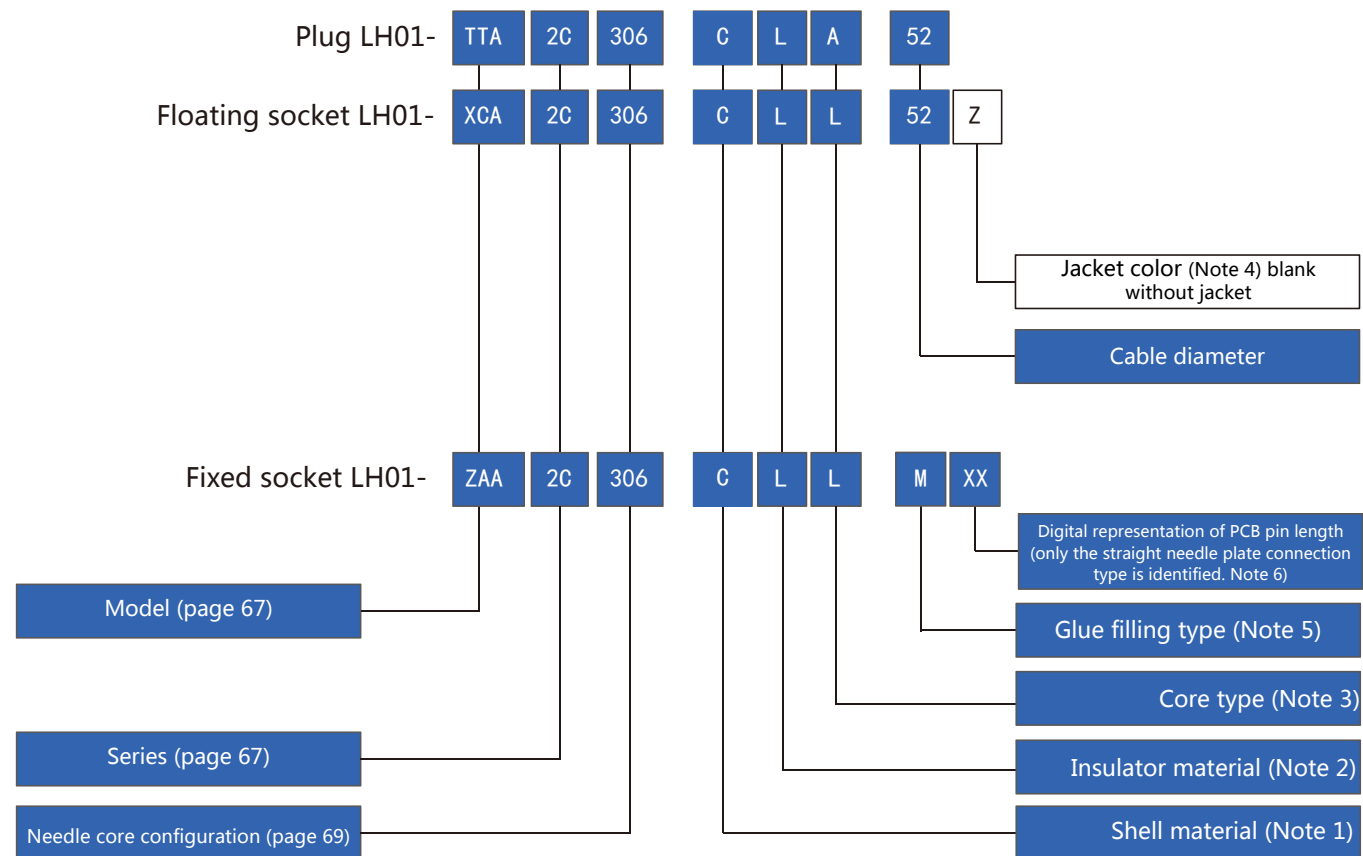
Project		Dimension (mm)									Panel opening drawing	
Series	Model	A	B	e	e1	L	N	E	SW1	SW2	SW3	
0W	MVG	16.2	16	M12*1.0	M14*1.0	24.1	8	5.5	10.5	12.5	14	SW 10.6/Ø14.1
1W	MVG	18.3	19.5	M14*1.0	M16*1.0	30	8	11.5	12.5	14.5	17	SW 12.6/Ø16.1
2W	MVG	22.5	21.8	M16*1.0	M20*1.0	35.8	9	14.5	14.5	18.5	19	SW 14.6/Ø20.1
3W	MVG	26.6	27	M20*1.0	M24*1.0	42.2	9.5	17.5	18.5	22.5	24	SW 18.6/Ø24.1

Locating pin (W Series)

Socket mating surface

No	Number of locating pins	Angle	Series	Core type		Notes
			0W-3W	Plug	Socket	
G	1		0°	Male needle core	Female needle core	
A	2	α	30°			
B	2	α	45°			
L	2	γ	75°	Female needle core	Male needle core	

Product numbering rules:



- | | | | | | |
|---|-------------------------------------|--|---|---|--|
| Note 1: | Note 2: | Note 3: | Note 4: | Note 5: | Note 6: |
| C= Chrome plated brass
K= Black chrome plated brass
N= Nickel plated brass
T= Stainless steel
L= Aluminum alloy anodizing
H= Chrome plated rubber coated brass
(Applicable to ZPG and ZXG printed board angle socket) | L=PPS
G=PEEK
T=PTFE
R=PPSU | A= Welding pin
L= Welding socket
N= Plate to straight jack
D= Board connected straight pin
V= Plate bending socket | Z= Black
G= Grey
A= Blue
R= Red
J= Yellow
V= Green | W= Silicone seal
M= Epoxy resin seal
(Seal type only) | 25=2.5mm
30=3mm
35=3.5mm
40=4mm |

Example of product number:

Straight plug with clamp

TTA. 2C. 306.CLA52= Straight plug, high ground insulation positioning, preventing MIS insertion, with clamp, 2C series, multi-core type, 6-core, yellow mace chrome plated shell, PPS insulator, welded male pin core, suitable for cables with an outer diameter of 5.0mm.

Floating socket

XCA. 2C. 306.CLL52Z= Floating socket, high ground insulation positioning, preventing MIS insertion, with clamp, 2C series, multi-core type, 6-core, brass chrome plated shell, PPS insulator, welded female pin core, suitable for cables with an outer diameter of 5.0mm, with black sheath.

Fixed socket

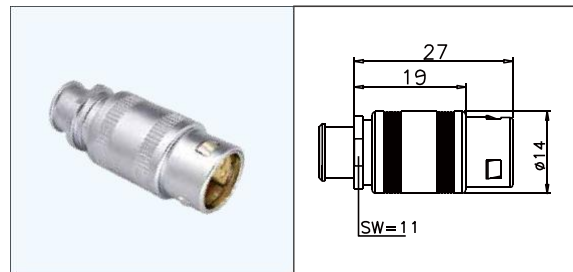
ZAA. 2C. 306.CLL= Fixed socket, high insulation positioning, preventing MIS insertion, nut fixing, 2C series, multi-core type, 6-core, brass chrome plated shell, PPS insulator, welded female pin core.



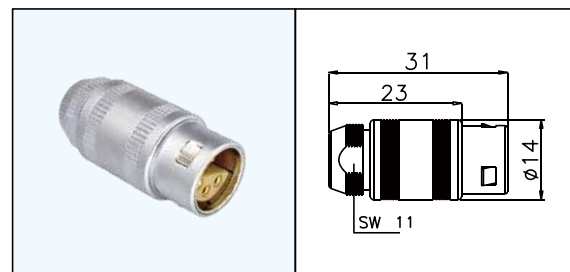
1. Safety push-pull self-locking system
2. Multi core type 2-14 cores
3. Ultra short series (length less than 30mm)
4. 360 degree shielding provides comprehensive EMC protection
5. High and low insulator positioning to prevent MIS insertion



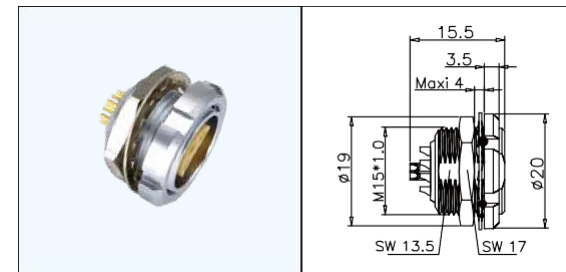
TTA Straight plug, cable clamp, with sheath



TTA Straight plug, cable clamp



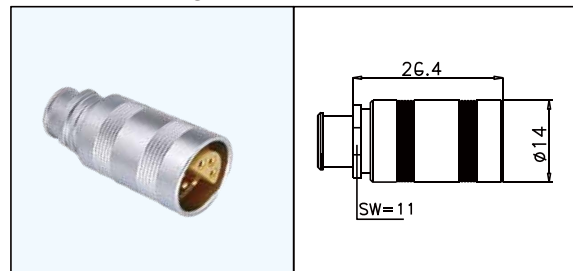
ZCP Fixed socket with two nuts (rear panel mounting)



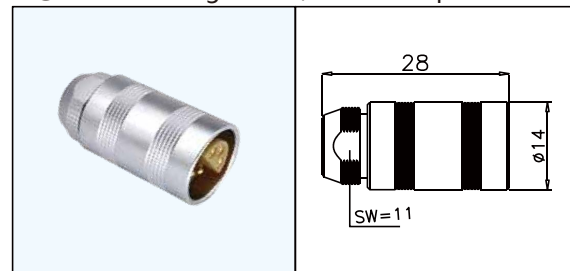
ZEP Fixed socket, fixed with nut (rear panel installation)



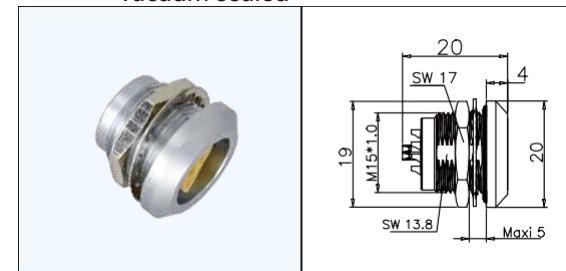
XCA Floating socket, cable clamp, with sheath



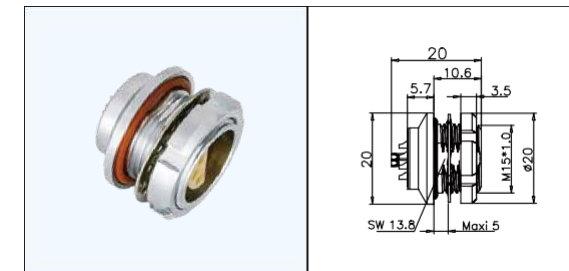
XCA Floating socket, cable clamp



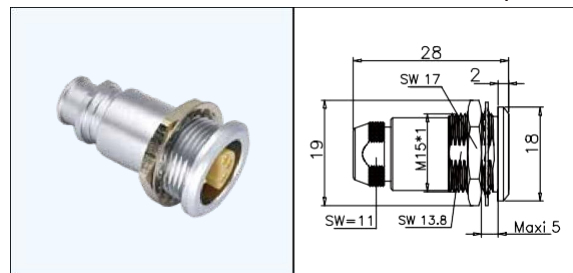
MGP Fixed socket, nut fixed, watertight or vacuum sealed



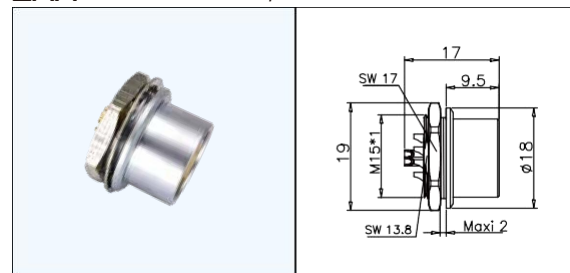
MEP Fixed socket, nut fixed, watertight or vacuum sealed (rear panel mounted)



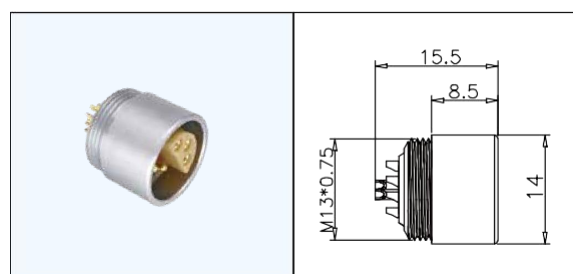
XSA Fixed socket, nut fixed, cable clamp



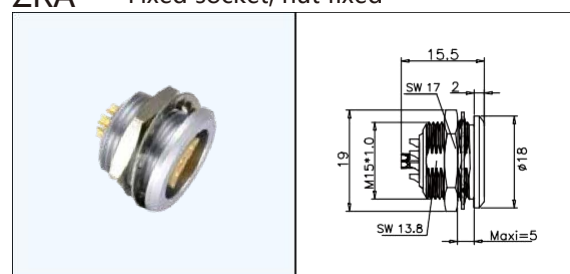
ZAA Fixed socket, nut fixed



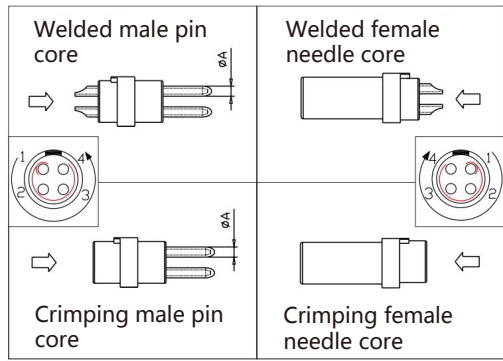
ZRY Fixed socket, protruding housing (panel threaded)



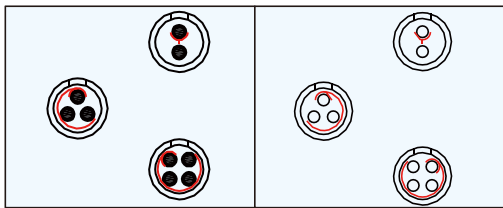
ZRA Fixed socket, nut fixed



Needle core configuration



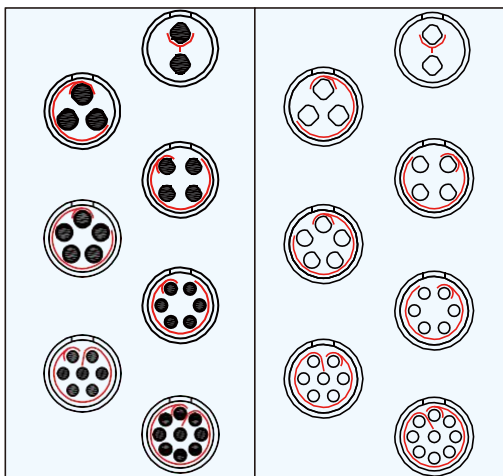
00



Number	Needle core configuration	Φ A (Mm)	Core type			Welding needle core		Rated current (a)
			Welding needle core	Printed board needle core	Printed board connected to bending needle core	Needle core - shell Test voltage (kVrms)	Needle core - shell Test voltage (kVrms)	

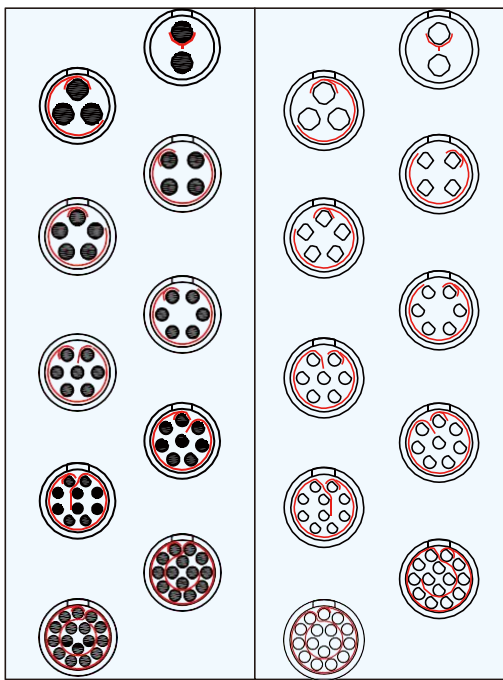
302	2	0.5	●	●	●	1.00	0.95	5.0
303	3	0.5	●	●	●	0.80	0.95	3.0
304	4	0.5	●	●	●	0.80	0.65	2.0

0B
0K
0C
0T

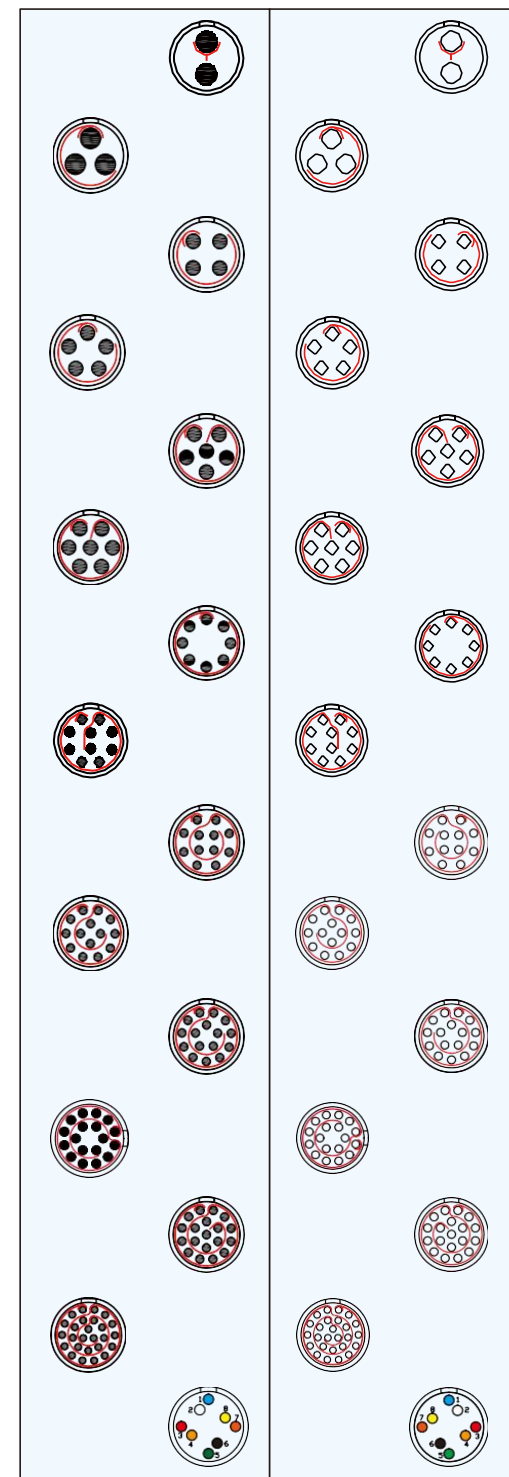
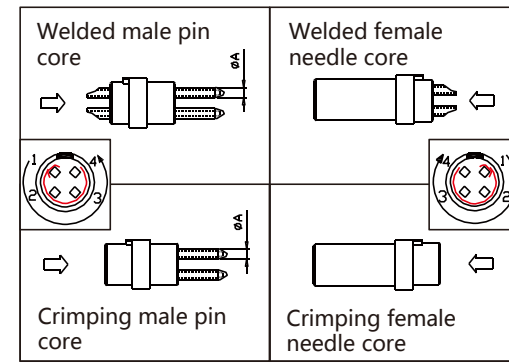


302	2	0.9	●	●	●	1.30	1.05	10.0
303	3	0.9	●	●	●	1.20	0.90	8.0
304	4	0.7	●	●	●	0.85	0.70	7.0
305	5	0.7	●	●	●	1.00	0.70	6.5
306	6	0.5	●	●	●	0.85	0.65	2.5
307	7	0.5	●	●	●	0.80	0.70	2.5
309	9	0.5	●	●	○	0.60	0.60	2.0

1B
1K
1C
1T



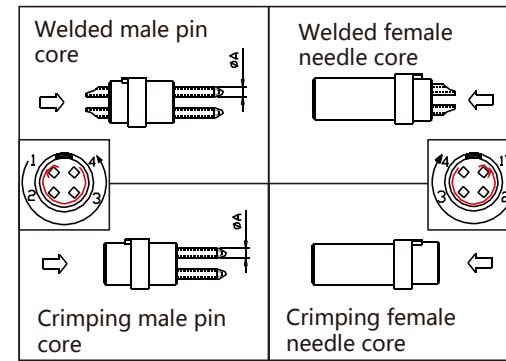
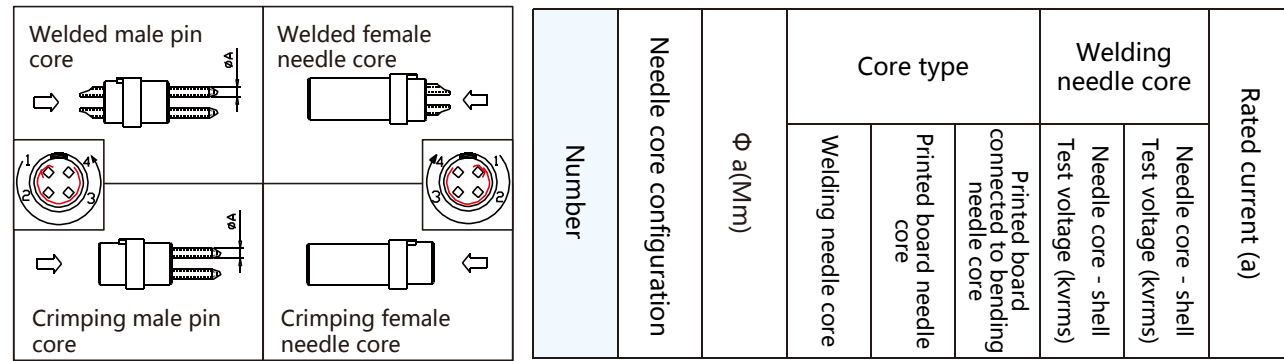
302	2	1.3	●	●	●	1.50	1.35	15.0
303	3	1.3	●	●	●	1.30	1.55	12.0
304	4	0.9	●	●	●	1.35	1.45	10.0
305	5	0.9	●	●	●	1.25	1.15	9.0
306	6	0.7	●	●	●	1.05	1.20	7.0
307	7	0.7	●	●	●	0.95	1.05	7.0
308	8	0.7	●	●	●	0.95	1.15	5.0
310	10	0.5	●	●	●	0.90	1.50	2.5
314	14	0.5	●	●	●	0.80	1.20	2.0
316	16	0.5	●	●	●	0.80	1.25	1.5



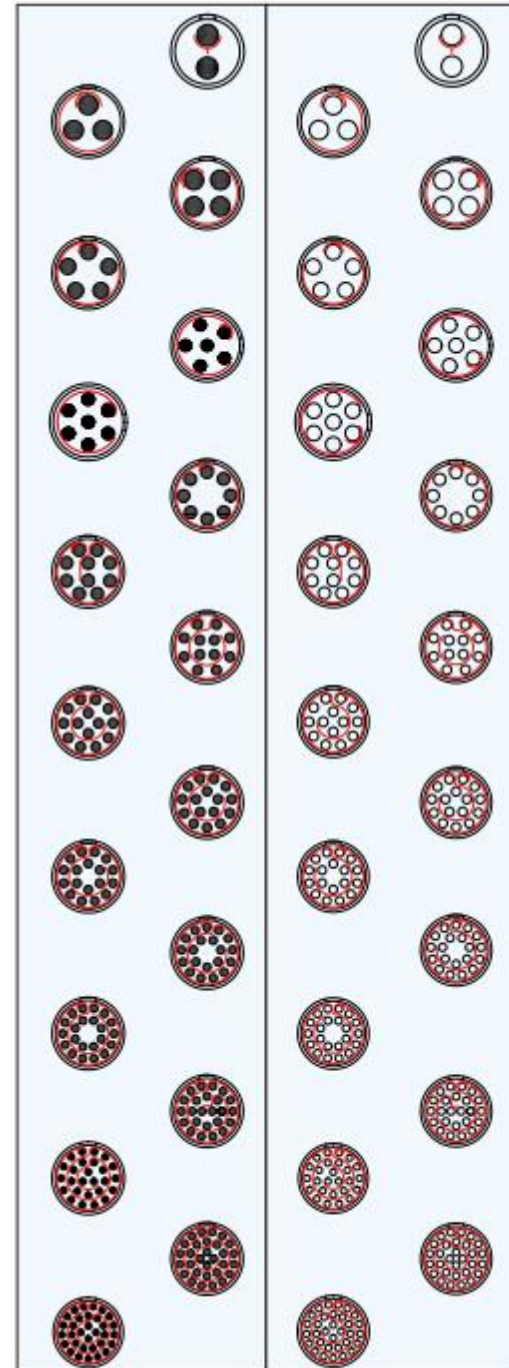
Number	Needle core configuration	Φ A (mm)	Core type			Welding needle core		Rated current (a)
			Welding needle core	Printed board needle core	Printed board connected to bending needle core	Needle core - shell Test voltage (kVrms)	Needle core - shell Test voltage (kVrms)	

302	2	2.0	●	●	●	2.10	1.75	30
303	3	1.6	●	●	●	2.40	1.85	17
304	4	1.3	●	●	●	1.85	1.85	15
305	5	1.3	●	●	●	1.75	1.60	14
306	6	1.3	●	●	●	1.35	1.45	12
307	7	1.3	●	●	●	1.75	1.60	11
308	8	0.9	●	●	●	1.50	1.25	10
310	10	0.9	●	●	●	1.45	1.30	8
312	12	0.7	●	●	●	1.25	1.35	7
314	14	0.7	●	●	●	1.15	1.35	6.5
316	16	0.7	●	●	●	0.95	1.25	6
318	18	0.7	●	●	●	0.85	1.20	5.5
319	19	0.5	●	●	●	0.95	1.25	5.0
326	26	0.5	●	●	○	0.95	1.30	2.0
514	8	0.7	●	●	○	1.5	1.6	10

2B
2K
2C
2T

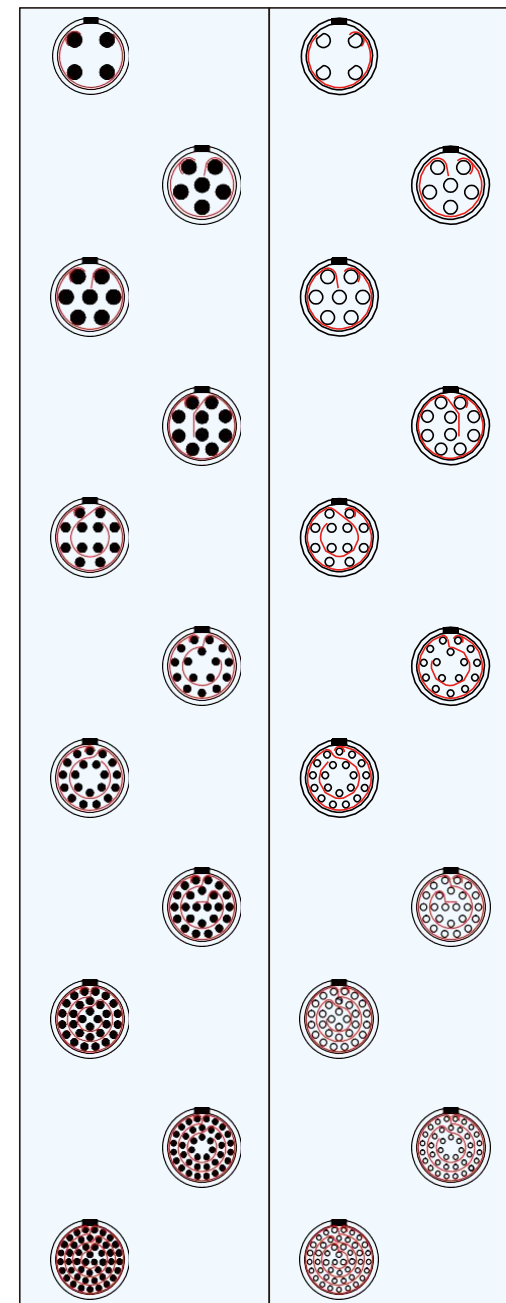


3B
3K
3C
3T

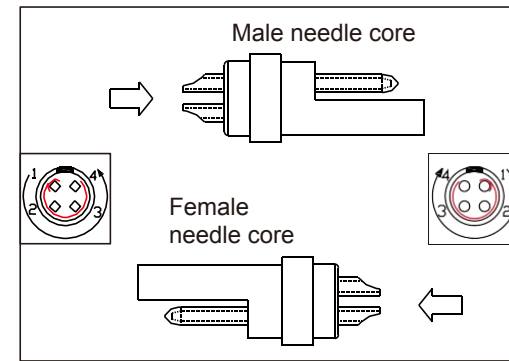
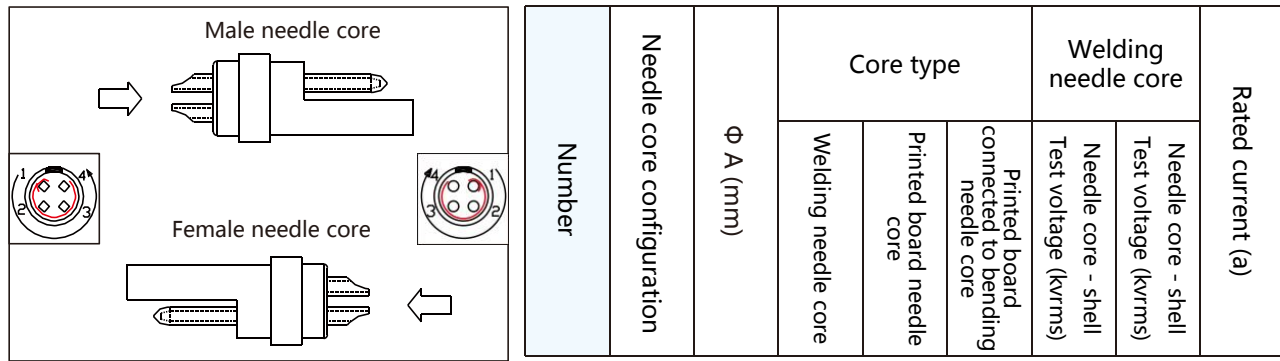


Number	Needle core configuration	Φ a (Mm)	Core type			Welding needle core		Rated current (a)	
			Welding needle core	Printed board needle core	Printed board connected to bending needle core	Needle core - shell Test voltage (kVrms)	Needle core - shell Test voltage (kVrms)		
302	2	3.0	●	●	●	2.10	1.55	35.0	
303	3	2.0	●	●	●	1.90	1.50	25.0	
304	4	2.0	●	●	●	1.45	1.25	19.0	
305	5	1.6	●	●	●	1.90	1.25	19.0	
306	6	1.6	●	●	●	1.60	1.15	17.0	
307	7	1.6	●	●	●	1.70	1.25	15.0	
308	8	1.3	●	●	●	1.65	1.15	13.0	
310	10	1.3	●	●	●	1.25	0.90	12.0	
312	12	0.9	●	●	●	1.45	1.00	9.0	
314	14	0.9	●	●	●	1.20	1.20	9.0	
316	16	0.9	●	●	●	1.20	0.85	8.0	
318	18	0.9	●	●	●	1.20	1.05	7.0	
320	20	0.7	●	●	●	1.00	0.90	6.0	
322	22	0.7	●	●	●	1.00	0.90	5.5	
324	24	0.7	●	●	●	0.95	0.80	4.0	
326	26	0.7	●	●	●	0.95	0.70	4.0	
330	30	0.7	●	●	●	0.80	0.70	3.5	
332	32	0.7	●	●	●	0.80	0.70	3.5	

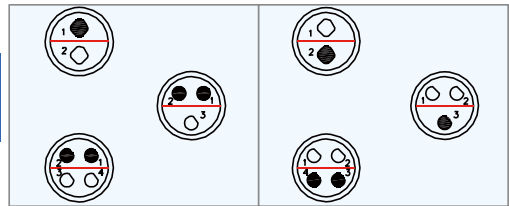
4B
4K
4C
4T



Number	Needle core configuration	Φ a (Mm)	Core type			Welding needle core		Rated current (a)	
			Welding needle core	Printed board needle core	Printed board connected to bending needle core	Needle core - shell Test voltage (kVrms)	Needle core - shell Test voltage (kVrms)		
304	4	3.0	●	●	●	2.10	1.50	30.0	
306	6	2.0	●	●	●	2.00	1.75	24.0	
307	7	2.0	●	●	●	2.00	1.80	20.0	
310	10	1.6	●	●	●	1.85	1.30	17.0	
312	12	1.3	●	●	●	1.45	1.60	12.0	
316	16	0.9	●	●	●	1.35	1.50	10.0	
320	20	0.9	●	●	●	1.35	1.00	8.0	
324	24	0.9	●	●	●	1.20	1.45	7.0	
330	30	0.9	●	●	●	0.95	0.85	5.0	
340	40	0.7	●	●	●	0.90	0.90	2.0	
348	48	0.7	●	●	●	0.70	0.70	1.5	

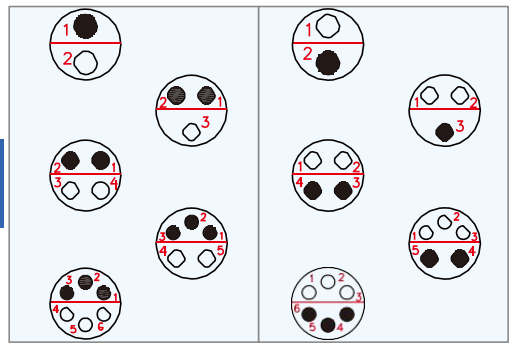


0S



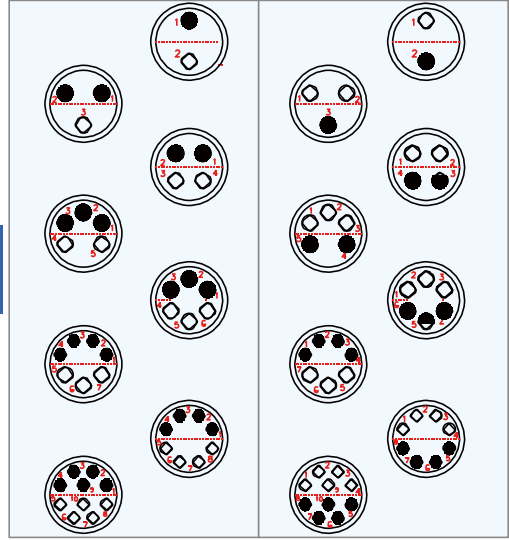
Number	Needle core configuration	Φ A (mm)	Core type			Welding needle core		Rated current (a)
			Welding needle core	Printed board needle core	Printed board connected to bending needle core	Needle core - shell Test voltage (kvrms)	Needle core - shell Test voltage (kvrms)	
302	2	0.9	●	●	●	1.1	1.6	10
303	3	0.7	●	●	●	1.0	1.5	7
304	4	0.7	●	●	●	1.0	1.5	7

1S



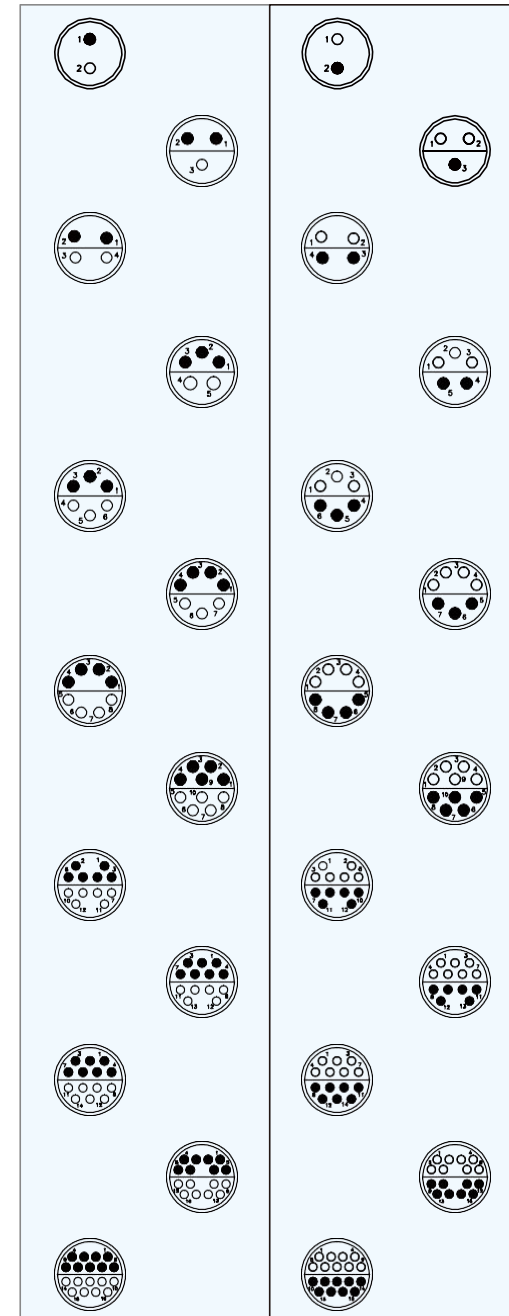
302	2	1.3	●	●	●	1.2	1.8	15
303	3	0.9	●	●	●	1.2	1.8	10
304	4	0.9	●	●	●	1.2	1.8	10
305	5	0.7	●	●	●	1.5	2.1	10
306	6	0.7	●	●	●	1.2	2.1	7

2S



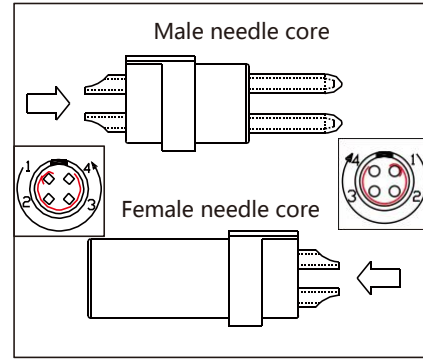
302	2	1.6	●	●	●	1.7	2.4	20
303	3	1.3	●	●	●	1.5	2.1	15
304	4	1.3	●	●	●	1.7	2.4	15
305	5	1.3	●	●	●	1.5	2.1	13
306	6	1.3	●	●	●	1.5	2.1	12
307	7	0.9	●	●	●	0.8	1.8	12
308	8	0.9	●	●	●	0.8	1.8	9
310	10	0.9	●	●	●	0.8	1.8	7

3S



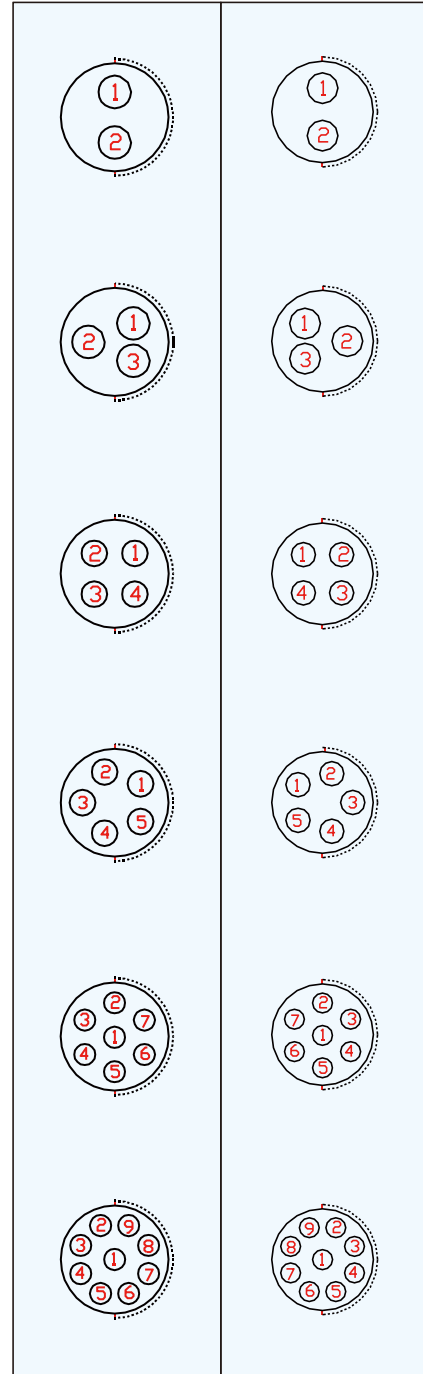
Number	Needle core configuration	Φ a (Mm)	Core type			Welding needle core		Rated current (a)
			Welding needle core	Printed board needle core	Printed board connected to bending needle core	Needle core - shell Test voltage (kvrms)	Needle core - shell Test voltage (kvrms)	

302	2	2.0	●	●	○	3.0	4.2	23
303	3	2.0	●	●	○	1.5	2.1	20
304	4	2.0	●	●	○	1.5	2.1	18
305	5	2.0	●	●	○	1.5	2.1	18
		1.3	●	●	○	1.5	2.1	14
306	6	1.3	●	●	●	2.1	3.0	14
307	7	1.3	●	●	●	1.0	1.5	12
308	8	1.3	●	●	○	1.0	1.5	10
310	10	1.3	●	●	●	1.0	1.5	9
312	12	0.9	●	●	●	1.5	2.1	8
313	13	0.9	●	●	○	1.5	2.1	8
314	14	0.9	●	●	●	1.5	2.1	7
316	16	0.9	●	●	●	1.0	1.5	7
318	18	0.9	●	●	○	1.0	1.5	6

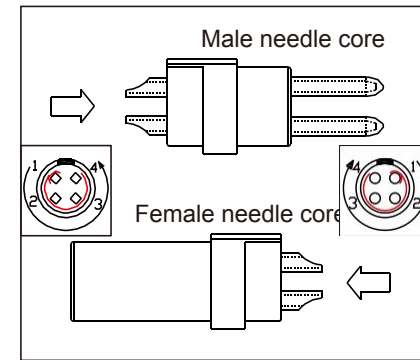


Number	Needle core configuration	Φ a (mm)	Core type			Welding needle core		Rated current (a)		
			Welding needle core	Printed board needle core	Printed board connected to bending needle core	Needle core - shell Test voltage (kvrms)	Needle core - shell Test voltage (kvrms)			

102F

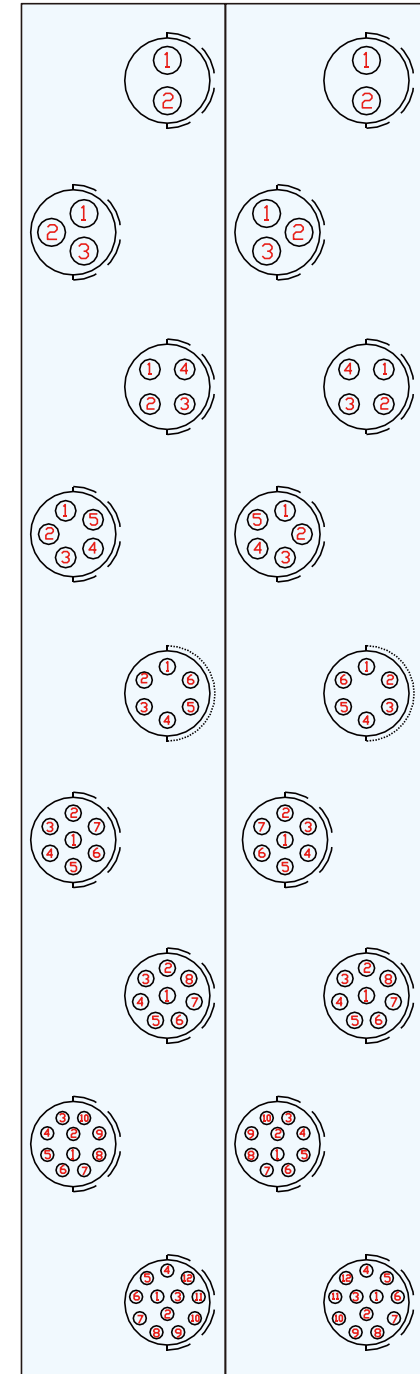


102 _Z ^A 051	2	0.9	●	●	●	1.7	1.3	9.2
102 _Z ^A 052	3	0.9	●	●	●	1.3	1.3	8.2
102 _Z ^A 053	4	0.7	●	●	●	1.2	1.2	5.5
102 _Z ^A 054	5	0.7	●	●	●	1.0	0.8	5.2
102 _Z ^A 056	7	0.5	●	●	●	1.0	0.8	2.0
102 _Z ^A 059	9	0.5	●	●	●	1.1	0.8	1.7

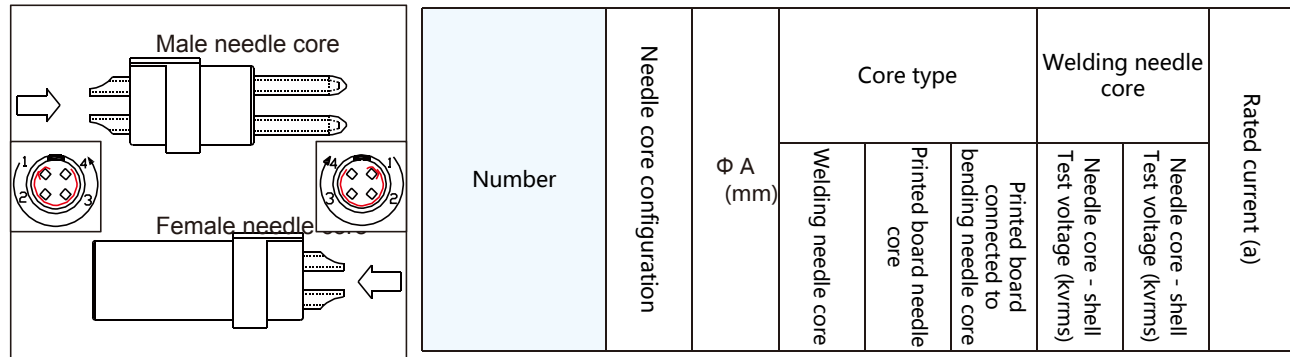


Number	Needle core configuration	Φ a (mm)	Core type			Welding needle core		Rated current (a)		
			Welding needle core	Printed board needle core	Printed board connected to bending needle core	Needle core - shell Test voltage (kvrms)	Needle core - shell Test voltage (kvrms)			

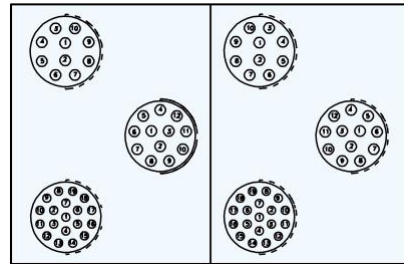
103F



103 _Z ^A 051	2	1.3	●	●	●	2.2	1.5	13
103 _Z ^A 052	3	1.3	●	●	●	1.5	1.2	12
103 _Z ^A 053	4	0.9	●	●	●	1.6	1.2	7
103 _Z ^A 054	5	0.9	●	●	●	1.4	1.1	6.8
103 _Z ^A 056	6	0.7	●	●	●	1.3	1.0	5.2
103 _Z ^A 057	7	0.7	●	●	●	1.3	1.0	5.0
103 _Z ^A 058	8	0.7	●	●	●	1.1	0.8	3.8
103 _Z ^A 010	10	0.5	●	●	●	0.9	2	2.5
103 _Z ^A 062	12	0.5	●	●	●	1.2	0.9	2

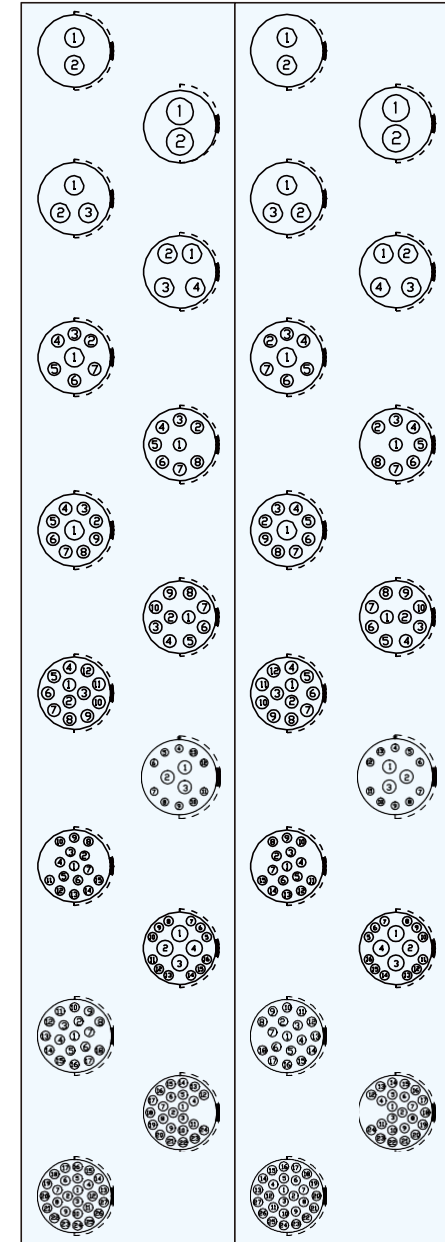
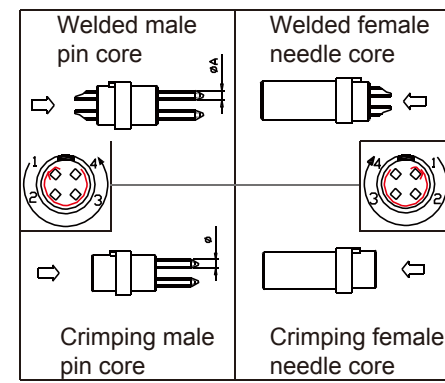
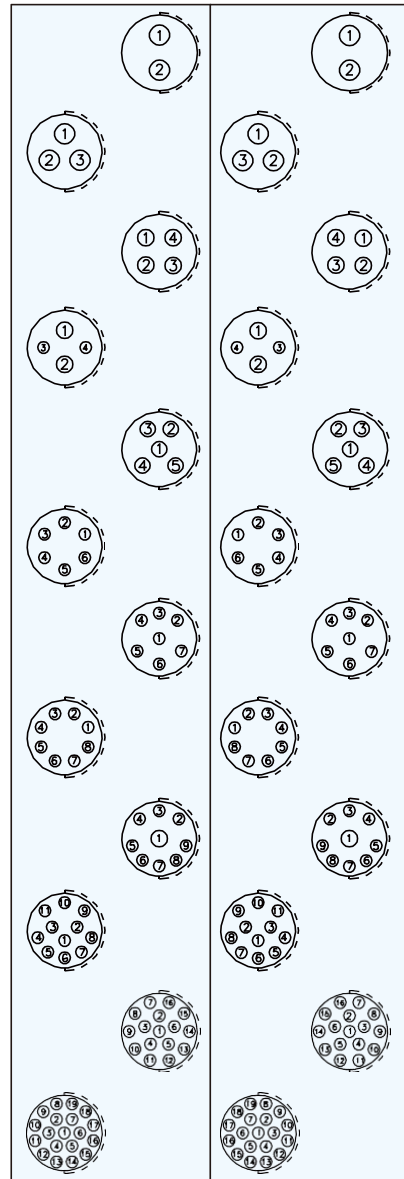


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Number	Needle core configuration	Φ A (mm)	Core type			Welding needle core		Rated current (a)	
			Welding needle core	Printed board needle core	Printed board connected to bending needle core	Needle core - shell Test voltage (kVrms)	Needle core - shell Test voltage (kVrms)		
1031 A _Z 010		10	0.7	●	●	●	1.5	1.4	4.5
1031 A _Z 012		12	0.7	●	●	●	1.5	1.4	4.2
1031 A _Z 019		19	0.5	●	●	●	0.9	1.2	2.5
104 A _Z 051		2	1.6	●	●	●	2.2	1.8	20
104 A _Z 040		3	1.6	●	●	●	2.0	1.6	18
104 A _Z 037		4	1.3	●	●	●	2.2	1.8	12
104 A _Z 087		4	2	2.3	●	●	1.6	1.5	28
		2	0.9						3.0
104 A _Z 053		5	1.3	●	●	●	1.7	1.4	11
104 A _Z 065		6	0.9	●	●	●	2.0	1.7	6.5
104 A _Z 054		7	0.9	●	●	●	1.8	1.5	6.5
104 A _Z 066		8	0.9	●	●	●	1.5	1.5	6.2
104 A _Z 055		9	1	1.3	●	●	2.2	2.4	12
		8	0.9						6
104 A _Z 056		11	0.9	●	●	●	1.5	1.4	5.8
104 A _Z 086		16	0.7	●	●	●	1.5	1.0	4.0
104 A _Z 092		19	0.7	●	●	●	1.2	0.68	3.5

104F



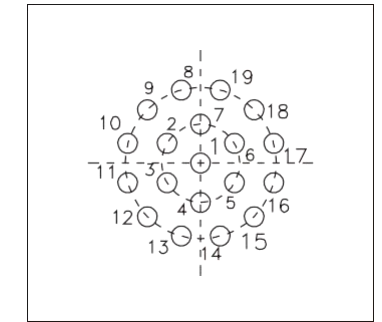
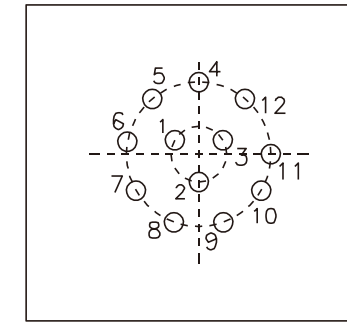
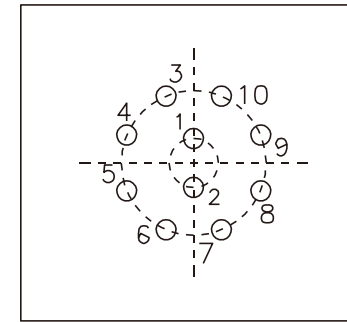
105F

Number	Needle core configuration	Φ A (mm)	Core type			Welding needle core		Rated current (a)	
			Welding needle core	Printed board needle core	Printed board connected to bending needle core	Needle core - shell Test voltage (kVrms)	Needle core - shell Test voltage (kVrms)		
105 A _Z 051		2	2.0	●	●	●	3.0	2.5	26
105 A _Z 087		2	3.0	●	●	●	1.6	1.2	30
105 A _Z 052		3	2.0	●	●	●	2.5	2.0	23
105 A _Z 053		4	2.0	●	●	●	1.8	1.8	20
105 A _Z 054		7	1	2.0	●	●	2.0	3.0	25
		6	1.3						7
105 A _Z 067		8	1.3	●	●	●	2.0	1.7	10
105 A _Z 101		9	1	2.0	●	●	2.0	3.0	25
		8	1.3						5
105 A _Z 062		10	1.3	●	●	●	2.0	1.7	9.0
105 A _Z 069		12	1.3	●	●	●	1.5	1.4	8.0
105 A _Z 104		13	3	1.3	●	●	1.3	1.5	14
		10	0.7						1
105 A _Z 058		15	0.9	●	●	●	1.6	1.4	5.3
105 A _Z 110		16	4	1.6	●	●	1.3	1.6	14
		12	0.7						1
105 A _Z 038		18	0.9	●	●	●	1.6	1.4	4.5
105 A _Z 093		24	0.7	●	●	●	1.5	1.2	3.5
105 A _Z 102		27	0.7	●	●	●	1.5	1.2	3.0

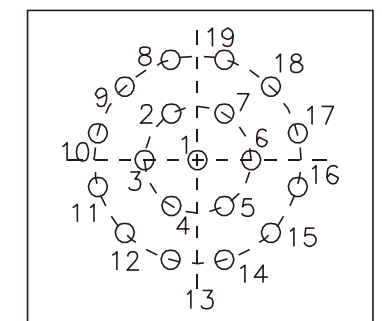
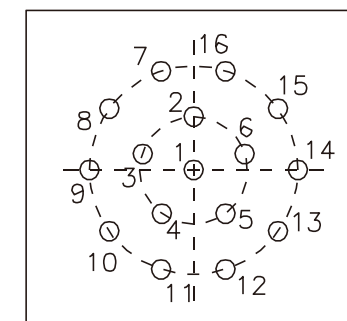
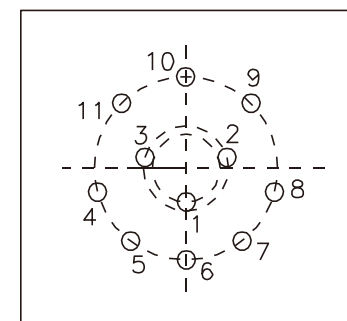
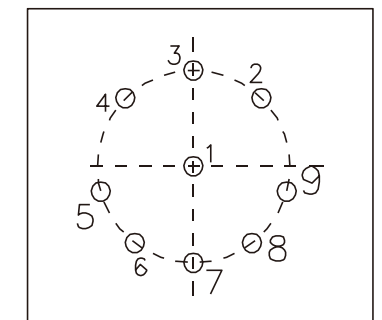
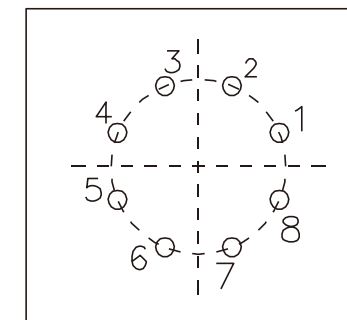
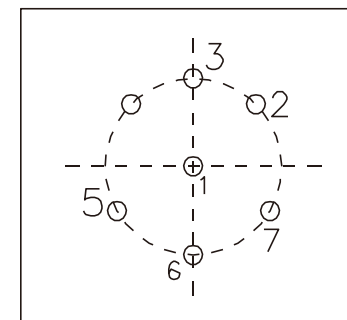
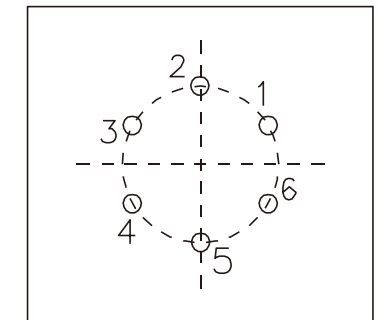
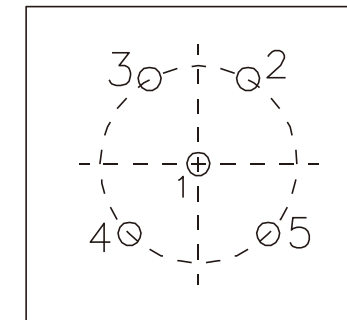
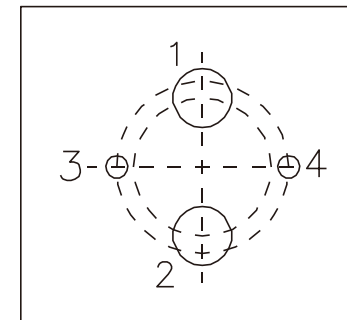
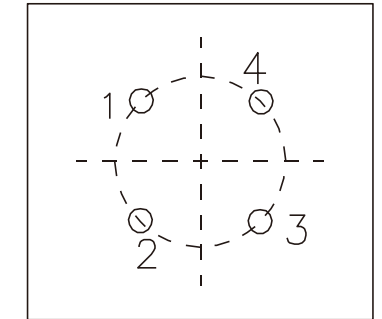
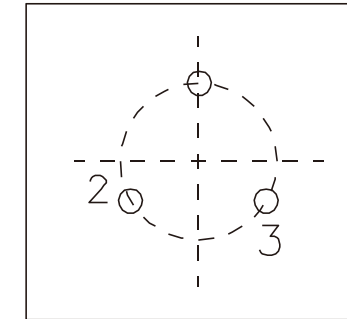
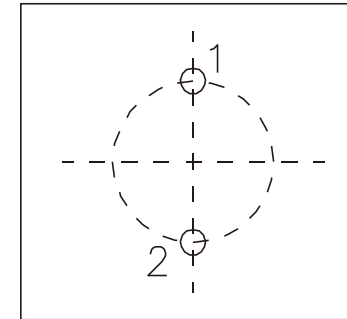
2C

Number	Needle core configuration	Φ a (mm)	Core type		Welding needle core		Rated current (a)
			Welding needle core	Crimping needle core	Needle core - shell Test voltage (kvrms)	Needle core - shell Test voltage (kvrms)	
302		1.6	●	-	1.8	2.4	20
303		1.3	●	-	1.5	2.1	15
304		1.3	●	-	1.8	2.4	15
306		1.3	●	-	1.5	2.1	12
308		0.7	●	●	0.95	1.35	7
310		0.7	●	●	0.95	1.35	7
312		0.7	●	●	0.60	0.9	5
314		0.7	●	●	0.60	0.9	5

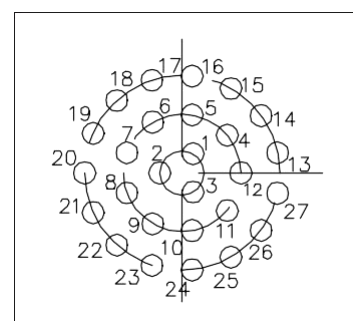
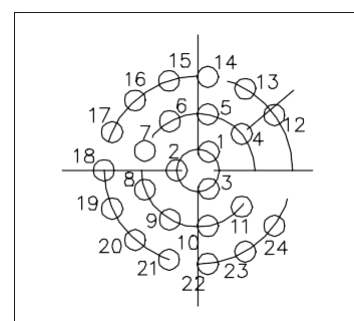
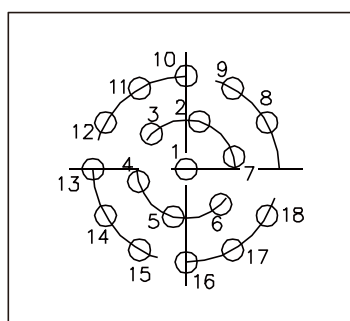
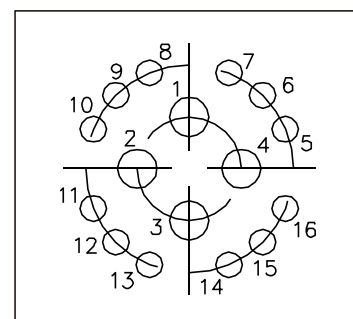
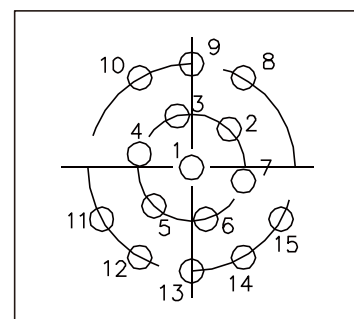
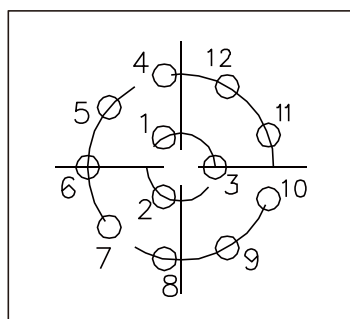
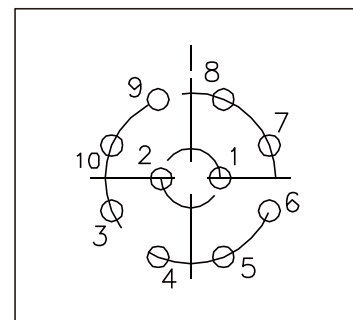
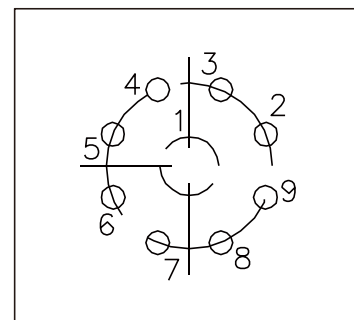
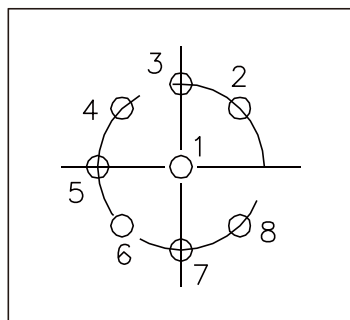
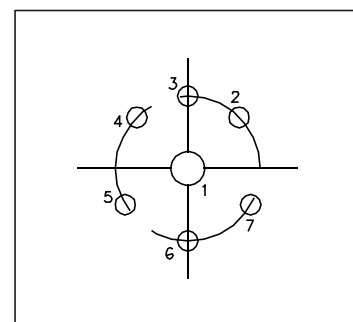
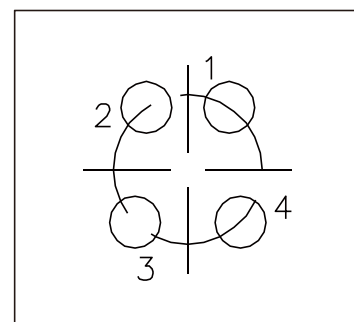
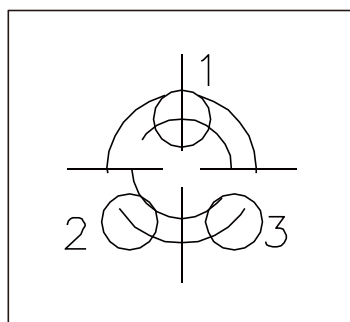
1031f PCB drilling parameters



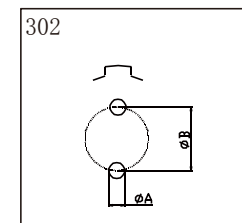
104F PCB drilling parameters



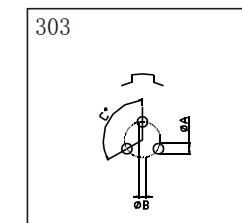
103F



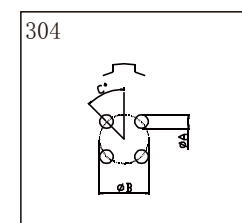
PCB drilling parameters are equipped with a fixed socket (b-k-t Series) for connecting the printed board to the straight pin core



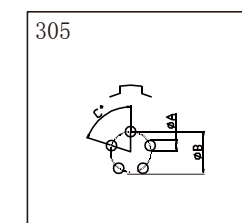
Series	Dimension (mm)	
	A	B
00	0.6	1.2
0B-0K	0.8	2.2
1B-1K	0.8	2.8
2B-2K	0.8	4.4



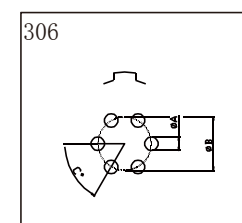
Series	Dimension (mm)		
	A	B	C
00	0.6	1.35	120°
0B-0K	0.8	2.30	120°
1B-1K	0.8	3.00	120°
2B-2K	0.8	4.60	120°
3B-3K	0.8	5.60	120°



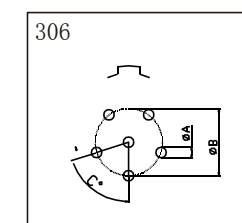
Series	Dimension (mm)		
	A	B	C
00	0.6	1.6	45°
0B-0K	0.6	2.5	45°
1B-1K	0.8	3.1	45°
2B-2K	0.8	5.0	45°
3B-3K	0.8	6.2	45°



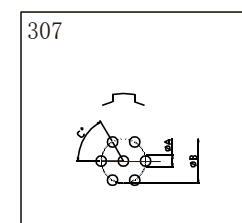
Series	Dimension (mm)		
	A	B	C
0B-0K	0.6	2.8	72°
1B-1K	0.8	3.4	72°
2B-2K	0.8	5.2	72°
3B-3K	0.8	6.7	72°



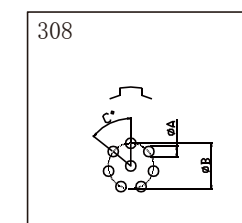
Series	Dimension (mm)		
	A	B	C
0B-0K	0.6	3.0	60°
1B-1K	0.8	3.7	60°



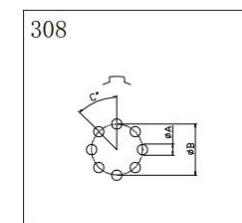
Series	Dimension (mm)		
	A	B	C
2B-2K	0.8	5.6	72°
3B-3K	0.8	7.1	72°



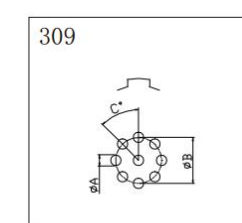
Series	Dimension (mm)		
	A	B	C
0B-0K	0.6	3.0	60°
1B-1K	0.8	3.7	60°
2B-2K	0.8	5.8	60°
3B-3K	0.8	7.08	60°



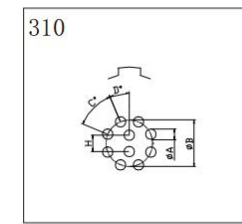
Series	Dimension (mm)		
	A	B	C
1B-1K	0.8	3.8	51.26°



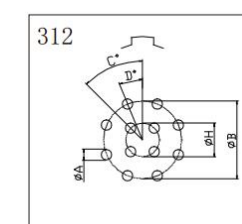
Series	Dimension (mm)		
	A	B	C
2B-2K	0.8	6.4	45°
3B-3K	0.8	7.5	45°



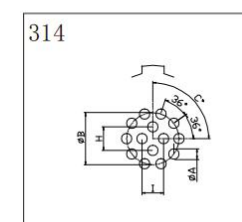
Series	Dimension (mm)		
	A	B	C
0B-0K	0.6	3.2	45°
3B-3K	0.8	7.5	45°



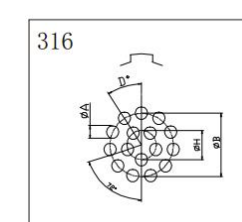
Series	Dimension (mm)				
	A	B	C	D	H
1B-1K	0.6	3.95	45°	22.3°	1.40
2B-2K	0.8	6.20	45°	22.3°	2.15
3B-3K	0.8	7.90	45°	22.3°	2.80



Series	Dimension (mm)				
	A	B	C	D	H
2B-2K	0.8	6.50	45°	22.3°	2.80
3B-3K	0.8	8.20	45°	22.3°	3.40

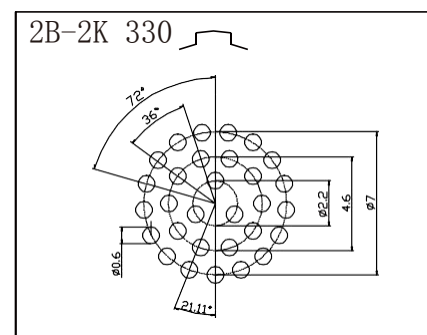
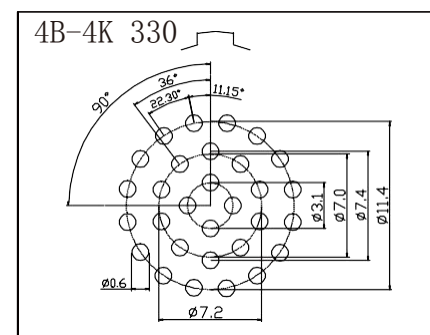
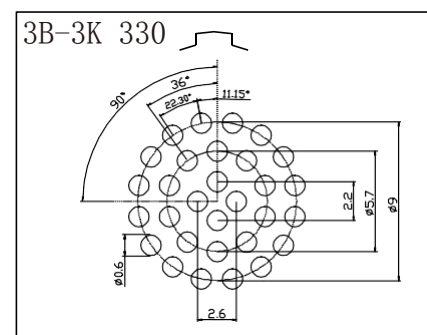
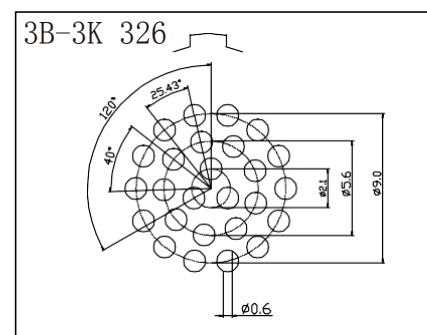
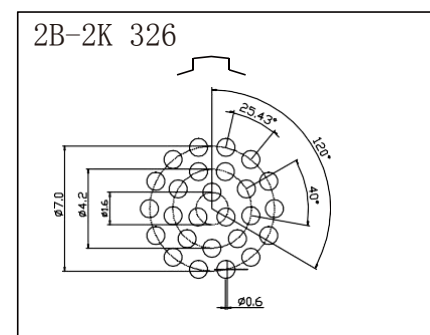
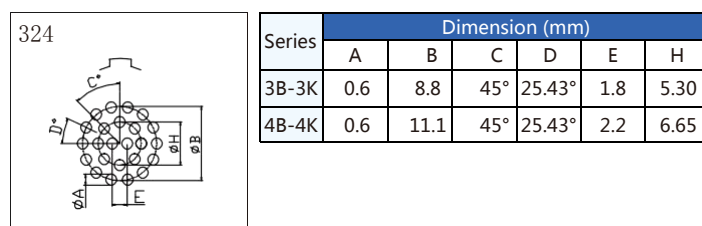
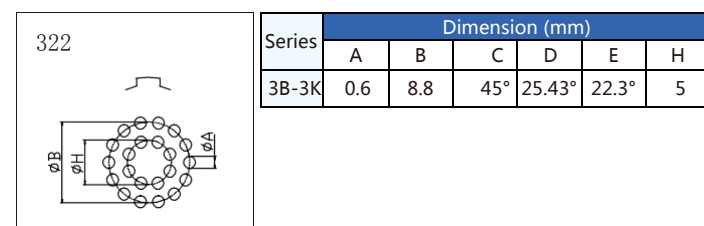
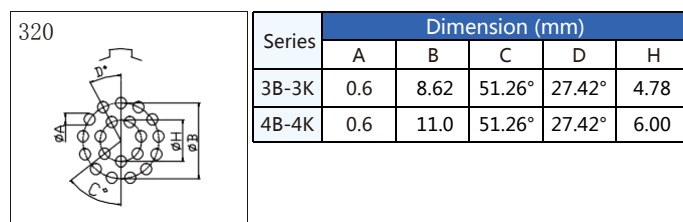
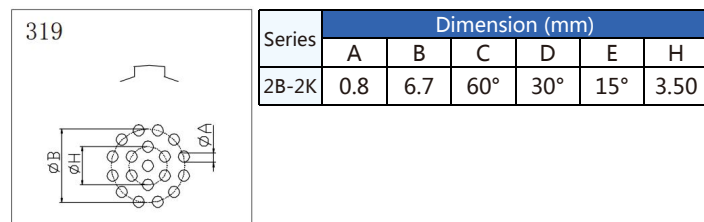
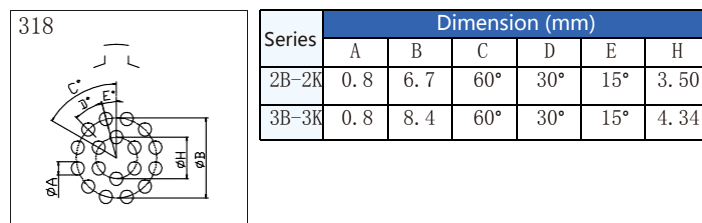
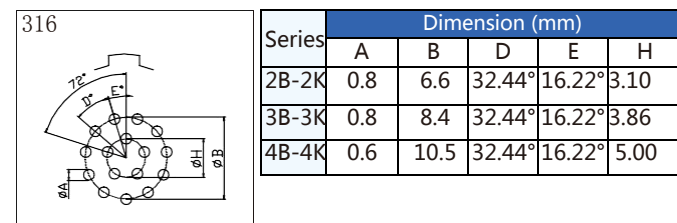


Series	Dimension (mm)				
	A	B	C	H	I
1B-1K	0.6	4.4	90°	1.90	1.80
2B-2K	0.8	6.5	90°	2.65	2.65
3B-3K	0.8	8.2	90°	3.40	3.40



Series	Dimension (mm)			
	A	B	C	H
1B-1K	0.6	4.4	32.5°	2.00

Fixed socket with printed board and straight pin core (b-k-t Series)



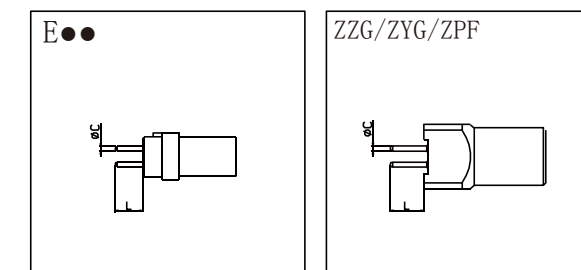
Note: All views are viewed from the direction of the socket

Length of printed board connecting straight pin core (E ●● socket)

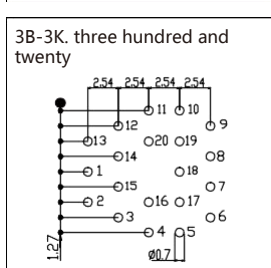
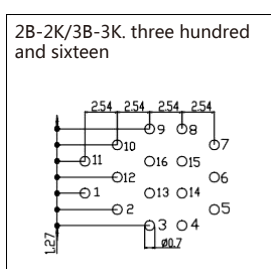
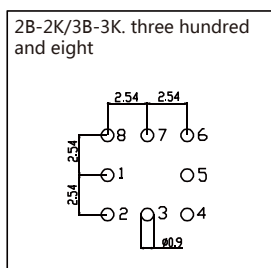
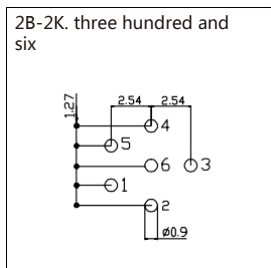
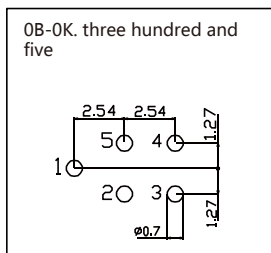
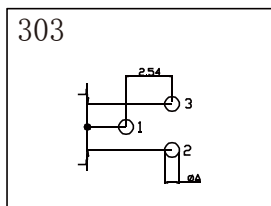
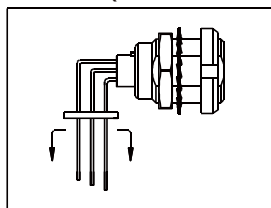
	Type	Size	
		ØC	L
00	302	0.5	3.0
	303	0.5	3.0
	304	0.5	3.0
0B-0K	302/303	0.7	3.2
	304/305	0.5	3.2
	306/307/309	0.5	3.2
1B-1K	302/303/304/305	0.7	3.0
	306/307/308	0.7	3.0
	310/314/316	0.5	4.0
2B-2K	303/304/305/306/307	0.7	3.0
	308/310/312/314/316/318/319	0.7	3.0
	326/332	0.7	3.0
3B-3K	303/304/305/306/307	0.7	3.0
	308/309/310/312/314/316/318	0.7	3.0
	320/322/324/326/330	0.5	3.0
4B-4K	316/320	0.5	5.0
	324/330	0.5	5.0
	340/348	0.5	5.0

Length of printed board connecting straight pin core (zzg/zyg/zpf socket)

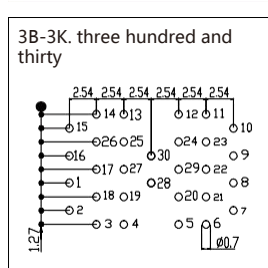
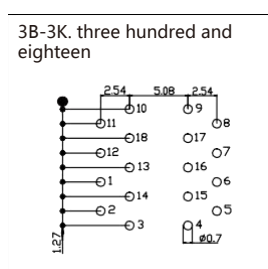
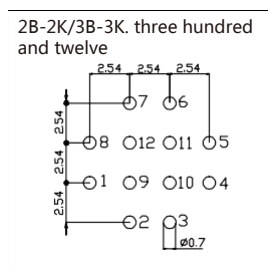
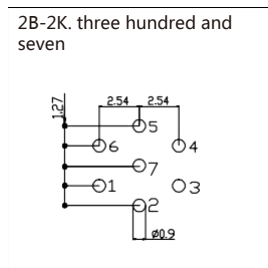
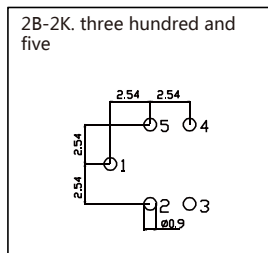
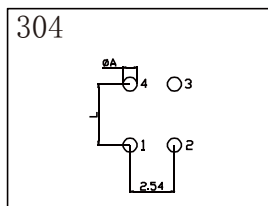
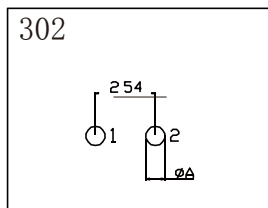
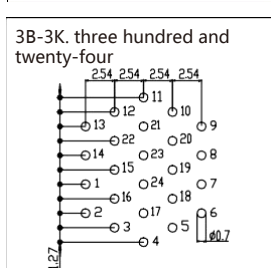
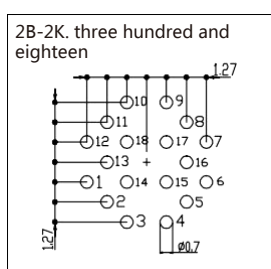
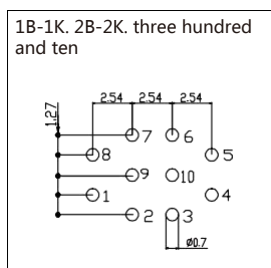
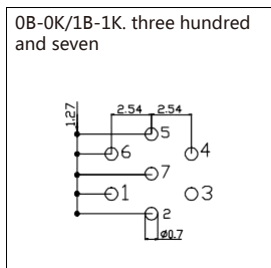
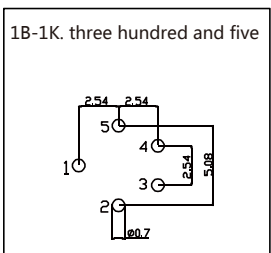
	Type	Size	
		ØC	L
0B		0.7	3.0
		0.7	3.0
		0.7	3.0
1B		0.7	3.0
		0.7	3.0
		0.5	3.0
2B		0.7	3.0
		0.7	3.0
		0.5	4.0



Applicable to 90 ° curved pin fixed socket of printed circuit board (b-k-t Series)

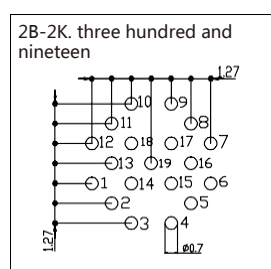
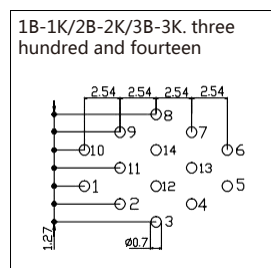
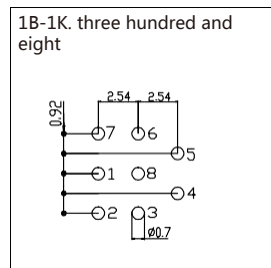
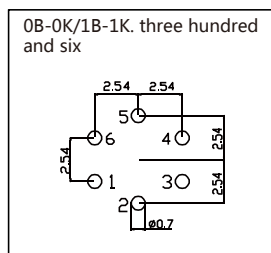


Series	A	L
00	0.6	1.27
0B-0K	0.7	1.27
1B-1K	0.9	1.27
2B-2K	0.9	2.54

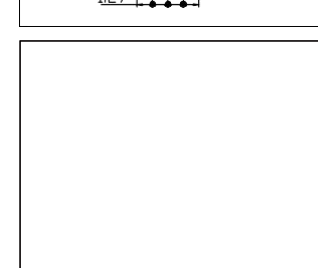
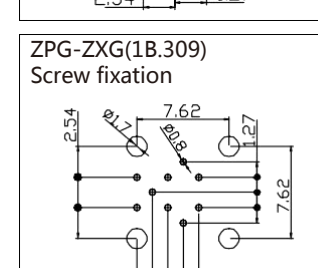
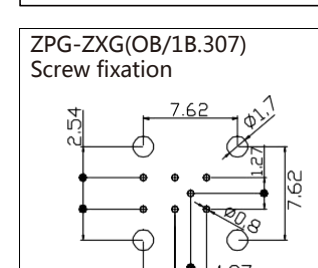
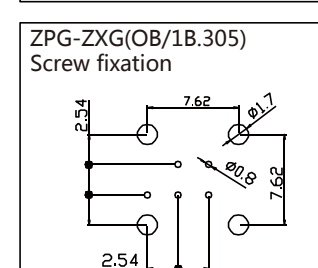
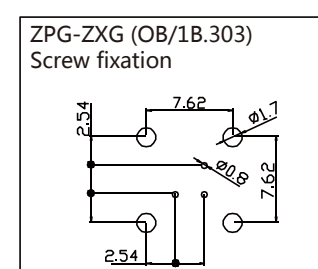
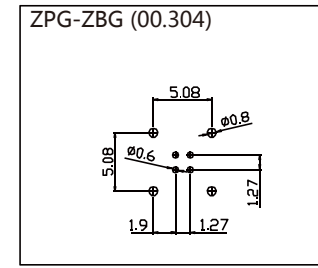
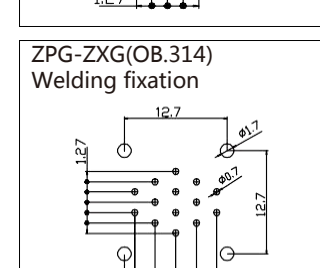
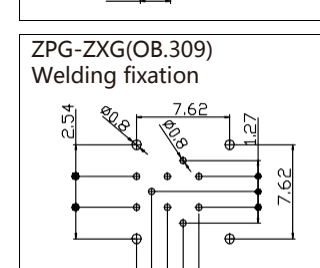
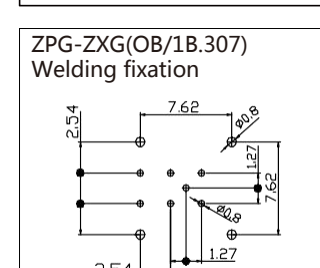
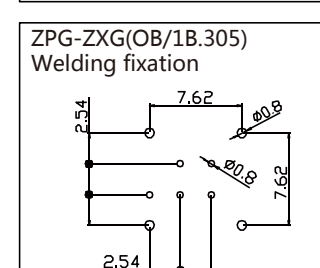
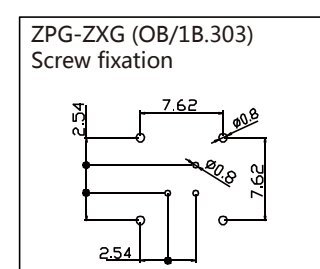
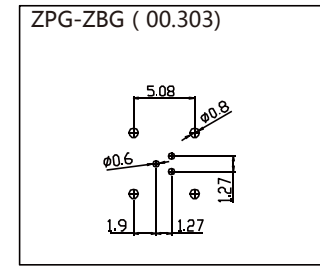
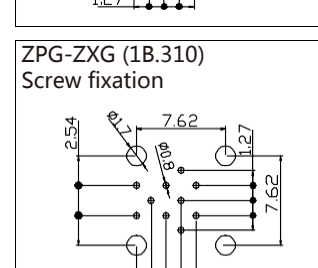
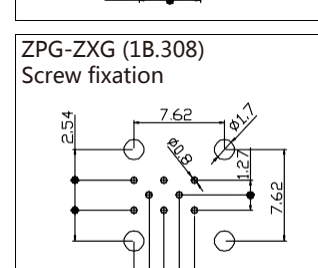
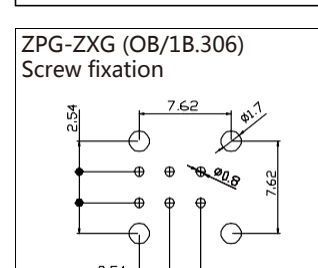
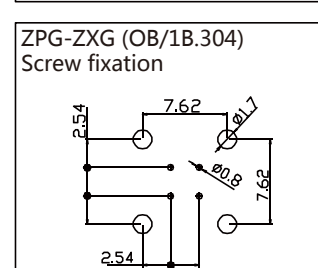
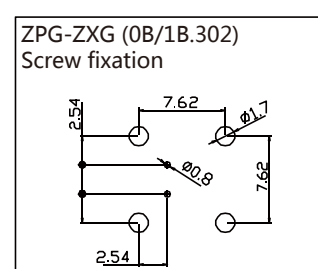
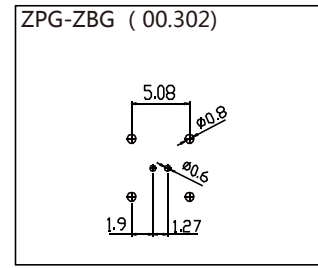
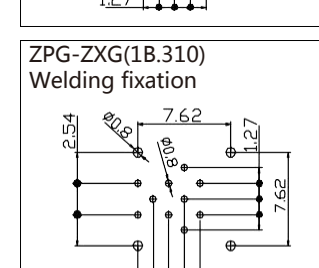
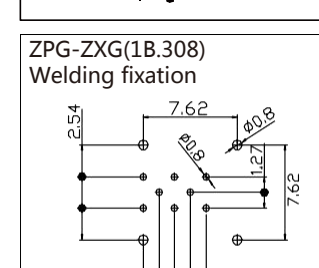
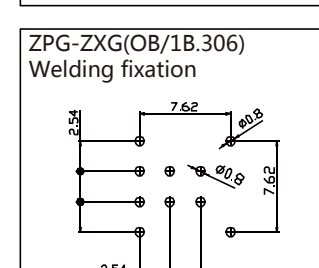
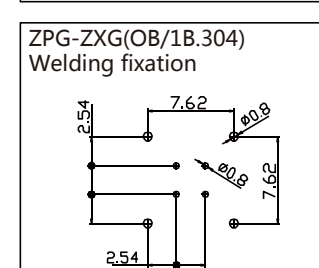
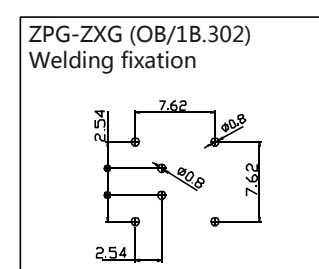
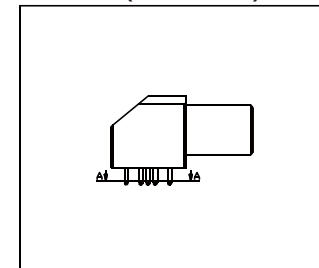


Series	Size (mm)
A	0.6
0B-0K	0.7
1B-1K	0.9
2B-2K	0.9

Series	A	L
00	0.6	2.54
0B-0K	0.7	2.54
1B-1K	0.7	2.54
2B-2K	0.9	3.50



Applicable to 90 ° angled socket of printed circuit board (B Series)



Fixed socket with printed board and straight pin core (S-E Series)

302		Series	Size (mm)	
			A	B
		0S-0E	0.6	2.2
		1S-1E	0.8	3.0

303		Series	Size (mm)		
			A	B	C
		0S-0E	0.6	2.8	45°
		1S-1E	0.8	3.5	45°
		2S-2E	0.8	5.5	45°

304		Series	Size (mm)		
			A	B	C
		0S-0E	0.6	2.5	45°
		1S-1E	0.8	3.5	45°
		2S-2E	0.8	5.0	45°

305		Series	Size (mm)		
			A	B	C
		1S-1E	0.8	3.5	45°
		2S-2E	0.8	5.5	60°

306		Series	Size (mm)		
			A	B	C
		1S-1E	0.8	3.5	60°
		2S-2E	0.8	5.5	60°
		3S-3E	0.8	6.5	60°

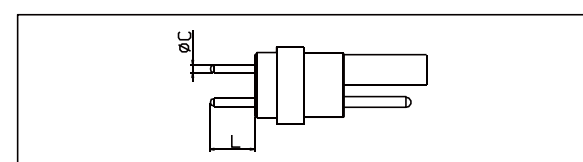
307		Series	Size (mm)			
			C	D	E	F
		2S-2E	45°	22.3°	2.75	3.25
		3S-3E	45°	22.3°	3.25	3.90

308		Series	Size (mm)			
			A	B	C	D
		2S-2E	0.8	6.5	45°	22.3°
		3S-3E	0.8	7.8	45°	22.3°

310		Series	Dimension (mm)				
			A	B	C	D	E
		2S-2E	0.8	6.5	45°	22.3°	1.25
		3S-3E	0.8	7.8	45°	22.3°	1.50

Note: all views are viewed from the direction of the socket

Length of printed board connecting straight pin core (E ● socket)



	Type	Size	
		Øc	L
2S-2E	302	0.7	3.0
	303	0.5	3.0
	304	0.5	3.0
2S-2E	302	0.75/1.5	3.0/5.0
	302/303/304	0.7	3.0
	304/305	0.7	3.0
2S-2E	303/304/305	0.7	3.0
	306/307	0.7	3.0
	308/310	0.7	3.0
2S-2E	305/306/307/308/310	0.7	3.0
	302/313/314	0.7	3.0
	316/318	0.5	3.0

Applicable to 90° curved pin fixed socket of printed circuit board (S-E Series)

302		Series	Size (mm)
			A
		0S-0E	0.7
		1S-1E	0.9

303		Series	Size (mm)		
			A	B	C
		0S-0E	0.7	2.00	1.00
		1S-1E	0.7	2.48	1.24

304		Series	Size (mm)	
			A	B
		0S-0E	0.7	2.00
		1S-1E	0.7	3.50
		2S-2E	0.9	3.50

305		Series	Size (mm)
			A
		0S-0E	0.7
		1S-1E	0.9

306		Series	Size (mm)	
			A	B
		0S-0E	0.7	2.00
		1S-1E	0.7	3.50
		2S-2E	0.9	3.50

2S-2E. Three hundred and seven		Series	Size (mm)		
			A	B	C
		0S-0E	0.7	2.00	1.00
		1S-1E	0.7	2.48	1.24

2S-2E. Three hundred and eight		Series	Size (mm)		
			A	B	C
		0S-0E	0.7	2.00	1.00
		1S-1E	0.7	2.48	1.24

2S-2E/3E. Three hundred and ten		Series	Size (mm)		
			A	B	C
		0S-0E	0.7	2.00	1.00
		1S-1E	0.7	2.48	1.24

3S-3E. Three hundred and twelve		Series	Size (mm)		
			A	B	C
		0S-0E	0.7	2.00	1.00
		1S-1E	0.7	2.48	1.24

3S-3E. Three hundred and fourteen		Series	Size (mm)		
			A	B	C
		0S-0E	0.7	2.00	1.00
		1S-1E	0.7	2.48	1.24

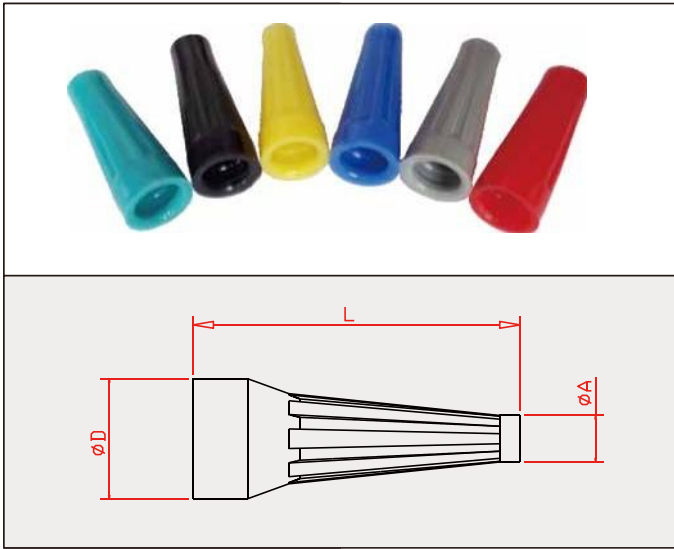
Panel opening size

	Series items	00B	0B-0T	1B-1T	2B-2T	3B-3T	0K	1K	2K	3K	0C	1C	2C	3C
	A	6.4	8.3	10.6	13.6	16.6	12.6	14.6	18.6	22.6	8.3	12.1	15.1	16.6
	D	7.1	9.1	12.1	15.1	18.1	14.1	16.1	20.1	24.1	9.1	14.1	16.1	20.1

	Series items	0S	1S	2S	3S
	A	8.3	10.6	13.6	16.6
	D	9.1	12.1	15.1	18.1

	Series items	0W	1W	2W	3W
	A	10.6	12.6	14.6	18.6
	D	12.1	14.1	16.1	20.2

Sheath



Series	Dimension (mm)		
	L	D	A
0B-0K-0S-0C-0T	24	8.8	See the following table
1B-1K-1S-1C-1P-1T	30	10.9	
2B-2K-2S-2C-2P-2T	36	14.3	
3B-3K-3S-3C-3T	42	16.8	

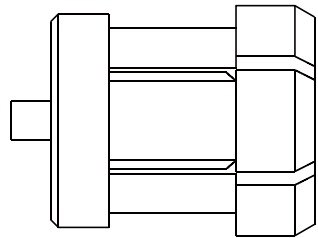
A corresponding table of adapter cable diameter

NO	Adapter cable diameter	0B-0K-0S-0C-0T	1B-1K-1S-1C-1P-1T	2B-2K-2S-2C-2P-2T	3B-3K-3S-3C-3T
25	2.5-2.9	•			
30	3.0-3.4	•	•		
35	3.5-3.9	•	•		
40	4.0-4.4	•	•	•	
45	4.5-5.0	•	•	•	
51	5.1-5.6		•	•	•
57	5.7-6.2		•	•	•
63	6.3-7.0		•	•	•
71	7.1-7.9		•	•	•
80	8.0-8.9			•	•
90	9.0-9.9			•	•
10	10.0-10.5				•
11	11.0-11.5				•

Sheath color numbering table

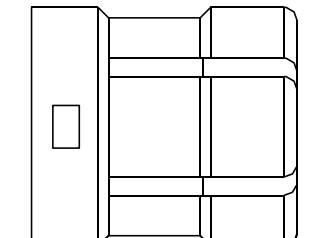
No	Color	No	Color
Z	Black	J	Yellow
G	Grey	V	Green
A	Blue		
R	Red		

Cable clamp



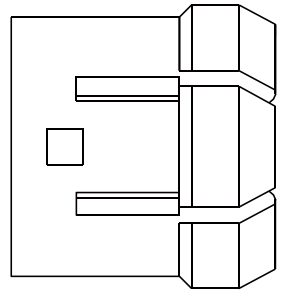
For B series

Code	Adapter cable diameter	00B	0B	1B	2B	3B	4B
25	2.0-2.5	•					
30	2.6-3.0	•	•				
35	3.1-3.5	•	•	•			
40	3.6-4.0		•	•	•		
45	4.1-4.5		•	•	•	•	
50	4.6-5.0		•	•	•	•	
60	5.1-6.0			•	•	•	
70	6.1-7.0			•	•	•	•
80	7.1-8.0				•	•	•
90	8.1-9.0				•	•	•
10	9.1-10.0				•	•	•
11	10.1-11.0					•	•
12	11.1-12.0					•	•
13	12.1-13.0						•
14	13.1-14.0						•
15	14.1-15.0						•
16	15.1-16.0						•



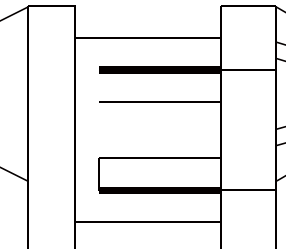
For F series

Code	Adapter cable diameter	102F	103F	1031F	104F	105F
40	3.6-4.0	•	•			
45	4.1-4.5	•	•	•		
50	4.6-5.0	•	•	•		
60	5.1-6.0		•	•	•	
70	6.1-7.0		•	•	•	•
75	7.1-7.5			•	•	•
80	7.6-8.0			•	•	•
85	8.1-8.5			•	•	•
90	8.6-9.0				•	•
10	9.1-10.0				•	•



For K, C, T and W series

Code	Adapter cable diameter	0K-0T-0C-0W	1K-1T-1C-1W	2K-2T-2C-2W	3K-3T-3C-3W
40	3.6-4.0	•	•		
45	4.1-4.5	•	•		
50	4.6-5.0	•	•	•	
60	5.1-6.0		•	•	•
70	6.1-7.0		•	•	•
75	7.1-7.5			•	•
80	7.6-8.0			•	•
85	6.0-7.0			•	•
80	7.1-8.0				•
90	8.1-9.0				•
10	9.1 - 10.0				•
11	10.0-11.0				•
12	11.1 - 12.0				•

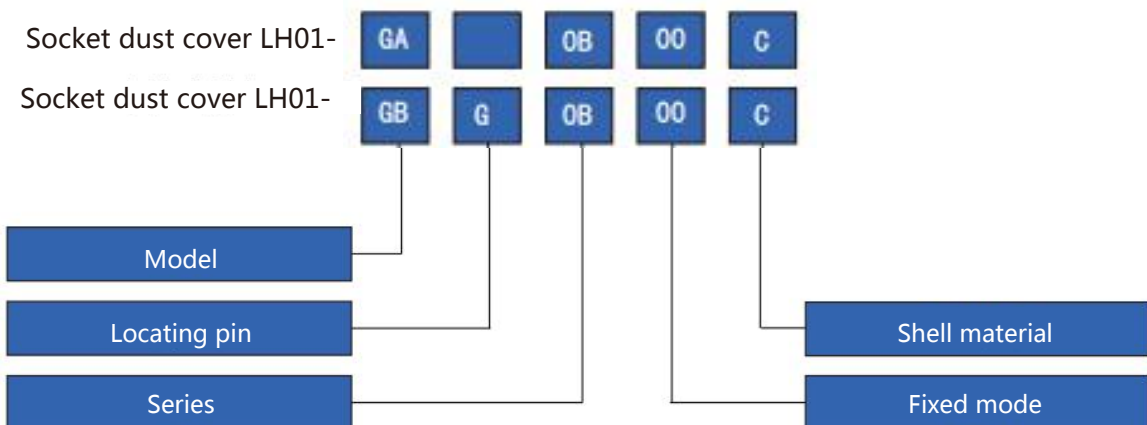


For S series

Code	Adapter cable diameter	00S	0S-0E	1S-1E	2S-2E	3S-3E
25	2.0-2.5	•	•			
30	2.6-3.0	•	•			
40	3.1-4.0	•	•	•	•	
50	4.1-5.0			•	•	•
60	5.1-6.0			•	•	•
70	6.1-7.0			•	•	•
80	7.1-8.0				•	•
90	8.1-9.0				•	•
10	9.1-10.0					•
11	10.1-11.0					•

Dust cover

Product numbering rules:

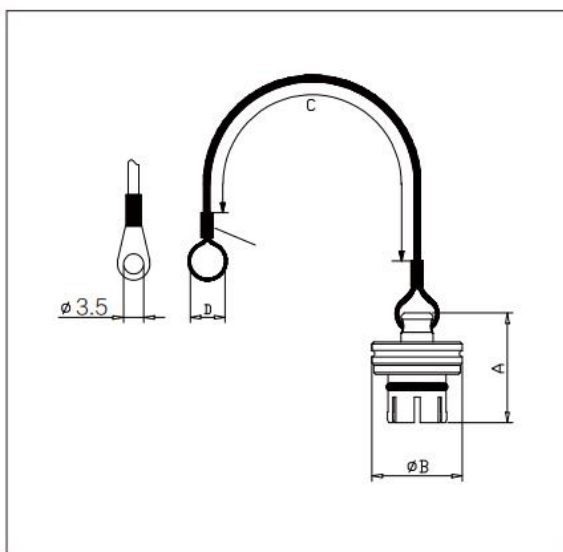


Number example:

GA.0B.00.C: plug dust cover, 0b series, nylon rope, annular coil, shell material is Pearl chromium plating on copper alloy

GBG.0B.00.C: plug dust cover, 0b series, with locating pin (g), nylon rope, annular coil, shell material is Pearl chromium plating on copper alloy

GA plug dust cover (IP50)

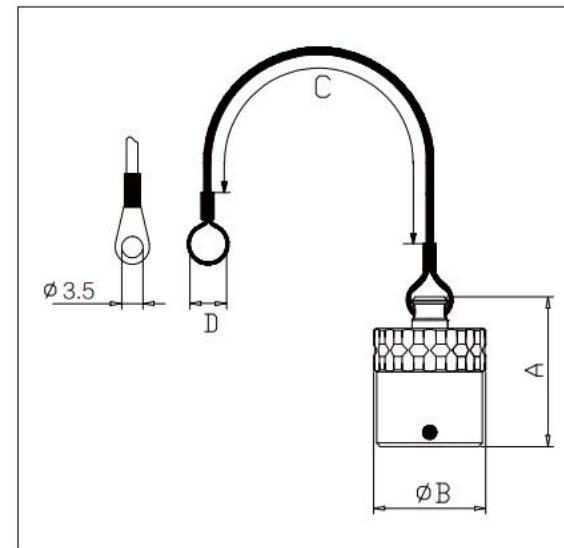


Series	Dimension (mm)			
	A	B	C	D
0B-0S-0C	10.5	10	70	8
1B-1S-1C	12.5	12	75	13
2B-2S-2C	14.85	15	85	13
3B-3S-3C	16.6	18	100	16
4B-4S-4C	16.9	25	110	19.5

Fixing method:
 00= Nylon rope, annular coil
 01= Stainless steel wire, ring coil
 02= Nylon rope, welding piece
 03= Stainless steel wire, welding piece

Shell material:
 C= Pearl chromium plating on copper alloy
 K= Black chromium plating on copper alloy

GB Plug dust cover (IP50), Plug dust cover with locating pin (g) or (a...)

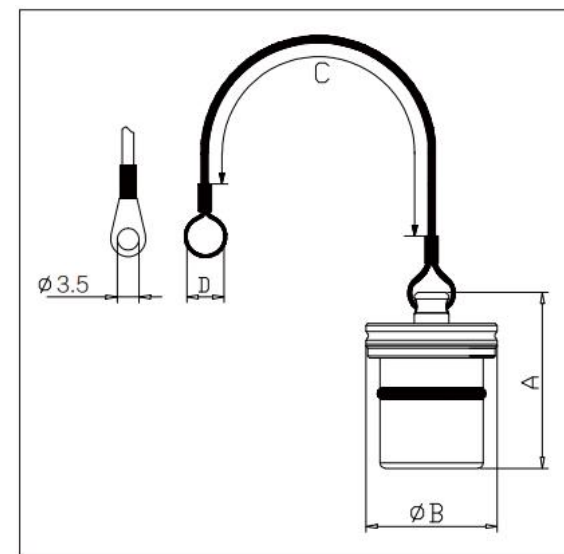


Series	Dimension (mm)		
	A	B	C
0B-0S-0C	16	14	70
1B-1S-1C	21	16	75
2B-2S-2C	21.5	20	80
3B-3S-3C	25.5	24	120
4B-4S-4C	28	30	140

Fixing method:
 00= nylon rope, annular coil
 01= stainless steel wire, ring coil
 02= nylon rope, welding piece
 03= stainless steel wire, welding piece

Shell material:
 C= Pearl chromium plating on copper alloy
 K= Black chromium plating on copper alloy

GA Plug dust cover (IP68)

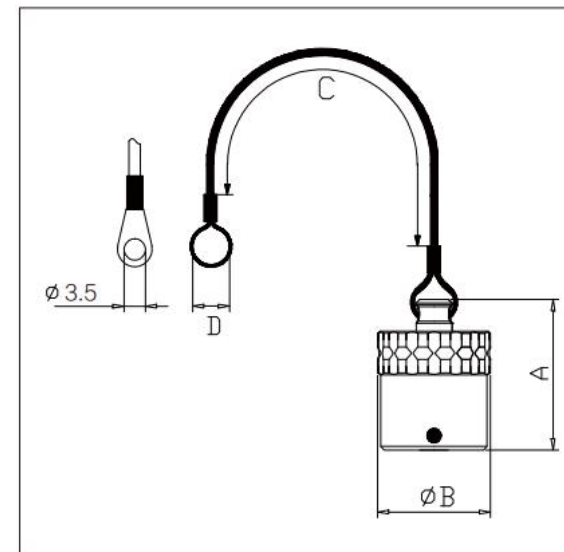


Series	Dimension (mm)			
	A	B	C	D
0K-0E	15.5	10	70	8
1K-1E	16.5	12	75	10
2K-2E	18	15	85	13
3K-2E	20.5	18	100	16

Fixing method:
 00= nylon rope, annular coil
 01= stainless steel wire, ring coil
 02= nylon rope, welding piece
 03= stainless steel wire, welding piece

Shell material:
 C= Pearl chromium plating on copper alloy
 K= Black chromium plating on copper alloy

GB Plug dust cover (IP68), Plug dust cover with locating pin (g) or (a...)

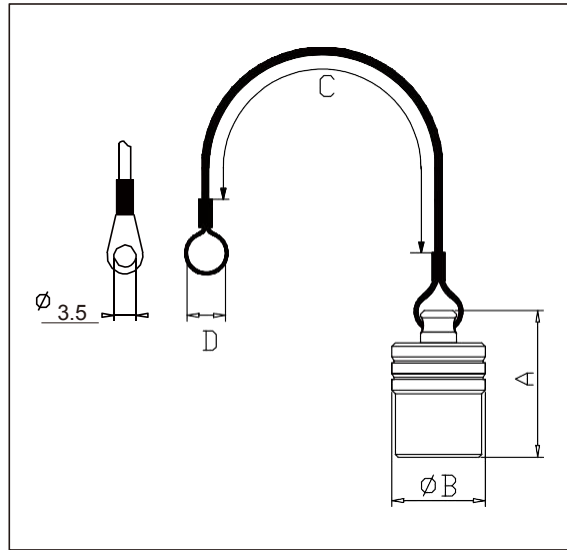


Series	Dimension (mm)		
	A	B	C
0K-0E	18.5	14	85
1K-1E	21.5	16	85
2K-2E	23.5	19.5	85
3K-3E	28	23	120
4K-4E	30.2	25	120

Fixing method:
 00= Nylon rope, annular coil
 01= Stainless steel wire, ring coil
 02= Nylon rope, welding piece
 03= Stainless steel wire, welding piece

Shell material:
 C= Pearl chromium plating on copper alloy
 K= Black chromium plating on copper alloy

GB Plug dust cover (IP68), Plug dust cover with locating pin (g) or (a...)

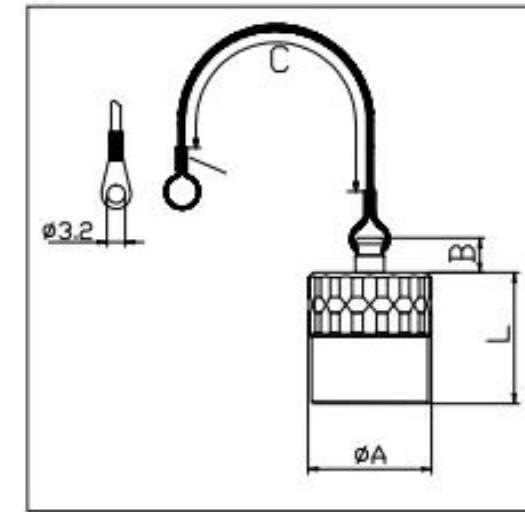


Series	Dimension (mm)		
	A	B	C
102F	15.5	10	70
103F	16.5	12	75
1031F	15.5	13	80
104F	18	15	85
105F	21	18	100

Fixing method:
 00= Nylon rope, annular coil
 01= Stainless steel wire, ring coil
 02= Nylon rope, welding piece
 03= Stainless steel wire, welding piece

Shell material:
 C= Pearl chromium plating on copper alloy
 K= Black chromium plating on copper alloy

GB Plug dust cover (IP68), Plug dust cover with locating pin (g) or (a...)

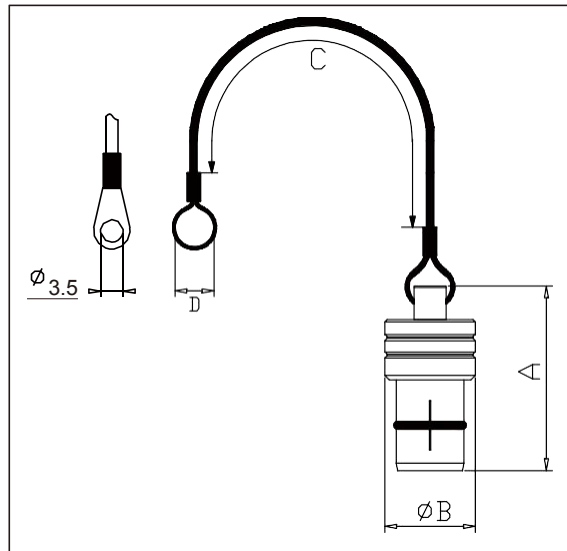


Series	Dimension (mm)			
	A	B	C	L
0T	7	4	60	9
1T	9.5	5	85	11
2T	12	6	85	12.4
3T	15	6	85	13.8
4T	18.8	6	120	17.6

Fixing method:
 00= Nylon rope, annular coil
 01= Stainless steel wire, ring coil
 02= Nylon rope, welding piece
 03= Stainless steel wire, welding piece

Shell material:
 C= Pearl chromium plating on copper alloy
 K= Black chromium plating on copper alloy

GA Plug dust cover (IP68)

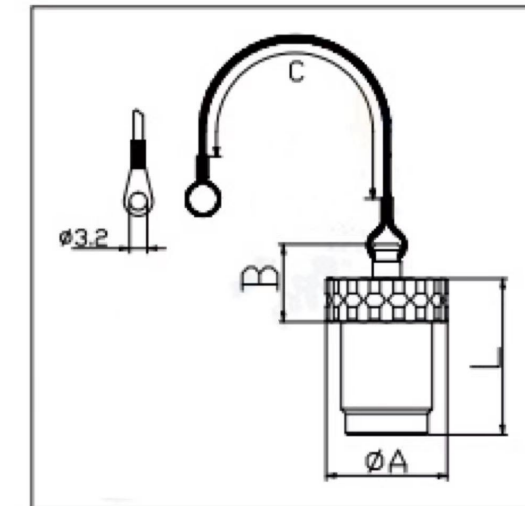


Series	Dimension (mm)			
	A	B	C	D
102F	10.5	10	70	8
103F	12.5	12	75	10
1031F	13.3	13	80	11
104F	14.85	15	85	13
105F	16.6	18	100	16
106F	16.9	25	110	19.5

Fixing method:
 00= nylon rope, annular coil
 01= stainless steel wire, ring coil
 02= nylon rope, welding piece
 03= stainless steel wire, welding piece

Shell material:
 C= Pearl chromium plating on copper alloy
 K= Black chromium plating on copper alloy

GA Plug dust cover (IP68)



Series	Dimension (mm)			
	A	B	C	L
0T	7	6.5	60	10.5
1T	9.5	7.7	85	12.7
2T	12	9.5	85	14.4
3T	15	10.4	85	16.3
4T	18.8	11.4	120	20.2

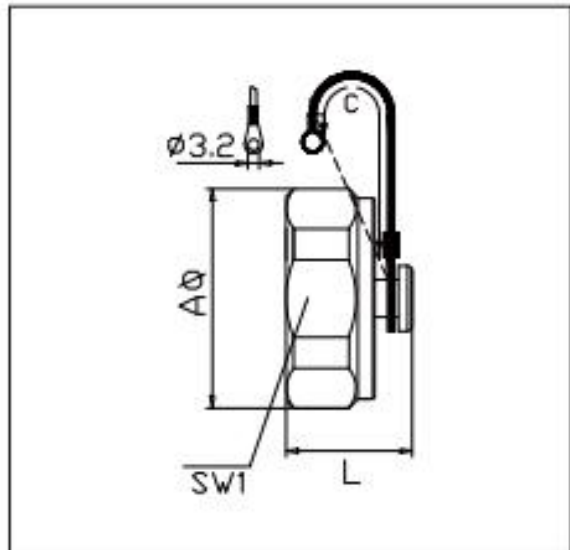
Fixing method:
 00= Nylon rope, annular coil
 01= Stainless steel wire, ring coil
 02= Nylon rope, welding piece
 03= Stainless steel wire, welding piece

Shell material:
 C= Pearl chromium plating on copper alloy
 K= Black chromium plating on copper alloy

Size	0	A	B	C	F	J	K	Q	V	W	Y
0	•	•		•	•	•					•
1	•	•		•	•	•			•		•
2	•	•	•	•	•		•	•		•	
3	•	•	•	•	•		•	•			

Assembly method

GA Plug dust cover (IP68)



Series	Dimension (mm)			
	A	L	C	SW1
0W	17.2	13.7	85	16
1W	19.3	13.7	85	18
2W	23.5	14.7	85	22
3W	27.8	14.7	120	26
4W	34.3	14.7	120	32

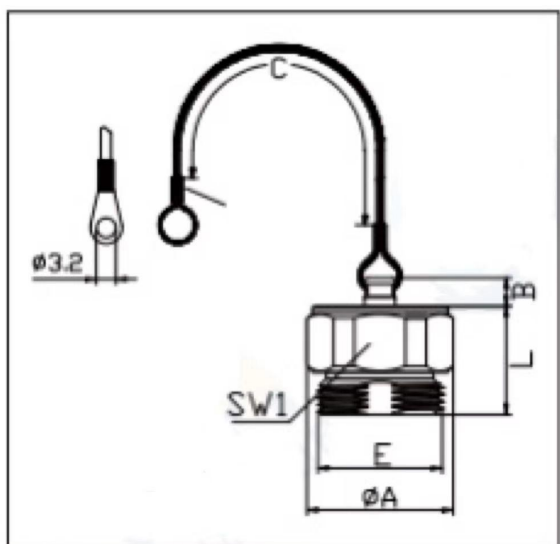
Fixing method:

- 00= Nylon rope, annular coil
- 01= Stainless steel wire, ring coil
- 02= Nylon rope, welding piece
- 03= Stainless steel wire, welding piece

Shell material:

- C= Pearl chromium plating on copper alloy
- K= Black chromium plating on copper alloy

GB Plug dust cover (IP68), Plug dust cover with locating pin (g) or (a...)



Series	Dimension (mm)					
	A	B	E	L	C	SW1
0W	17.2	6	M14*1.0	12.5	85	16
1W	19.3	6	M16*1.0	15.5	85	18
2W	23.5	6	M20*1.0	17.5	85	22
3W	27.8	6	M24*1.0	22	120	26
4W	34.3	10	M30*1.0	22.5	120	32

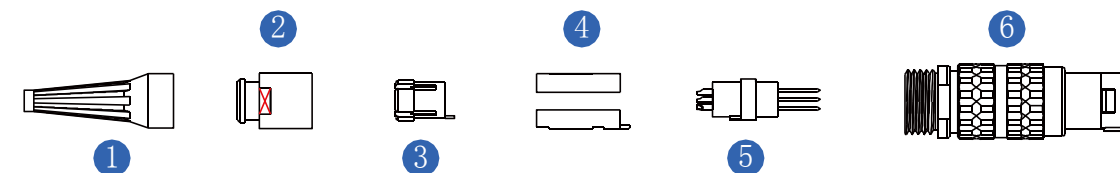
Fixing method:

- 00= nylon rope, annular coil
- 01= stainless steel wire, ring coil
- 02= nylon rope, welding piece
- 03= stainless steel wire, welding piece

Shell material:

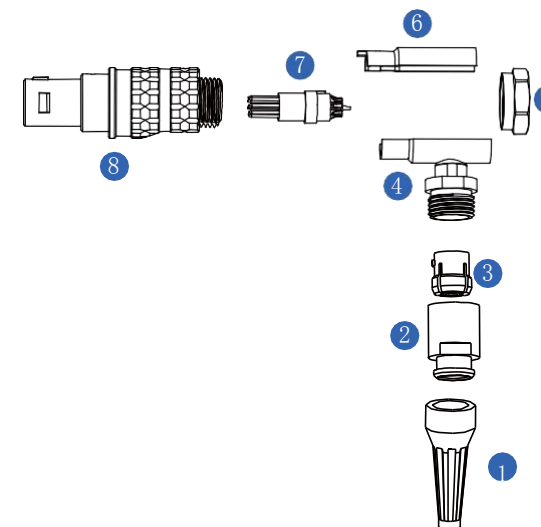
- C= Pearl chromium plating on copper alloy
- K= Black chromium plating on copper alloy

C series connector plug



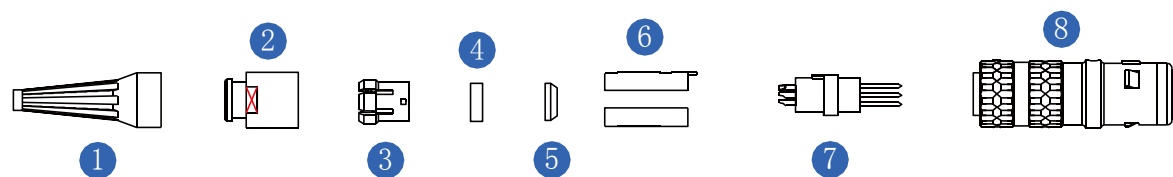
1. Pass the cable through the sheath ① tail nut ② cable clamp ③ in sequence and weld it to the insulator assembly ⑤.
2. Install the two-piece insulator snap ring ④ onto the welded insulator assembly ⑤, and note that the window on the snap ring ④ corresponds to the protrusion on the insulator assembly ⑤.
3. Install the cable clamp ③ to the appropriate position of the cable, and note that the protrusion on the cable clamp ③ corresponds to the groove on the insulator snap ring ④.
4. Push the insulator assembly ⑤ insulator snap ring ④ cable clamp ③ into the plug assembly in turn, and note that the protrusion on the insulator snap ring ④ is installed corresponding to the notch in the plug assembly ⑥.
5. Tighten the tail nut ② to the plug assembly ⑥.
6. Put the sheath ① onto the corresponding step of the tail nut ②.

B series connector elbow plug



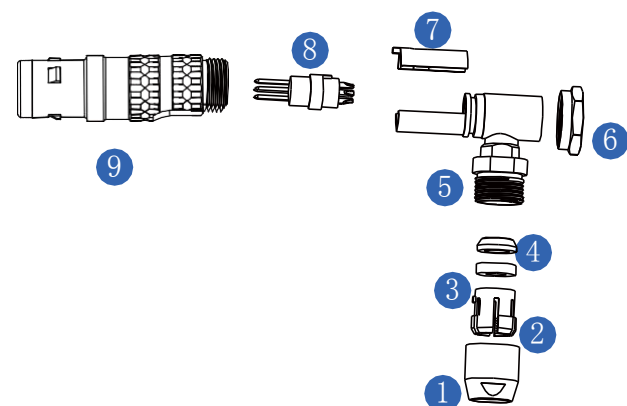
1. Pass the cable through the sheath ① tail nut ② cable clamp ③ adapter ④ in sequence and weld it to the insulator assembly ⑦.
2. Install the insulator snap ring ⑥ onto the welded insulator assembly ⑦, and note that the notch on the snap ring ⑥ corresponds to the convex key on the insulator assembly ⑦.
3. Push the insulator assembly ⑦ insulator snap ring ⑥ adapter ④ into the plug assembly ⑧ in turn, and note that the adapter is stuck in the two slots of the plug assembly ⑧.
4. Adjust the proper position of the cable clamp and the cable, install the cable clamp ③ on the adapter ④, pay attention that the convex key on the cable clamp ③ should be aligned to the groove in the adapter ④, and the cable clamp ③ should clamp the cable sheath.
5. Tighten the tail nut ⑤ to the plug assembly ⑧.
6. Put the sheath ① onto the corresponding step of the tail nut ②.

K series connector plug



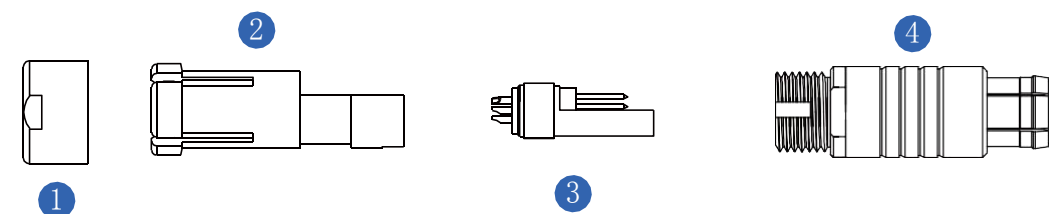
1. Pass the cable through the sheath ① tail nut ② cable clamp ③ cable sealing ring ④ shield wire pressing ring ⑤ in sequence and weld it to the corresponding pin of insulator assembly ⑥.
2. Install the insulator snap ring ⑥ onto the insulator assembly ⑦, pay attention to the correspondence between the protrusion of the insulator snap ring ⑥ and the notch of the insulator assembly ⑦, and push the shield wire pressing ring ⑤ cable sealing ring ④ cable clamp ③ to the appropriate position in turn to ensure that the complete sheath of the cable is inserted into the shield wire pressing ring ⑤.
3. Install the installed insulator assembly ⑦ into the plug assembly ⑧, and note that the notch on the insulator snap ring ⑥ corresponds to the protrusion in the plug assembly ⑧.
4. Tighten the tail nut ② to the plug assembly ⑧.
5. Install the sheath ① onto the tail nut ②.

K series connector plug



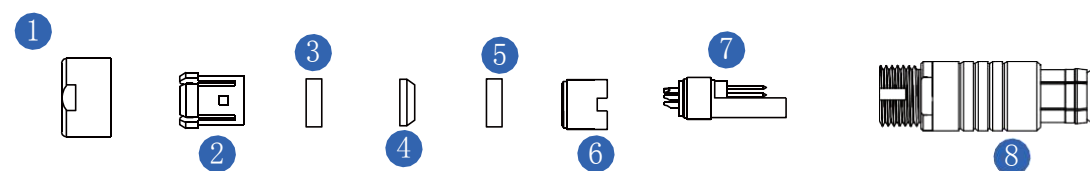
1. Pass the cable through the tail nut ① cable clamp ② cable sealing ring ③ shield wire pressing ring ④ adapter ⑤ in sequence and weld it to the corresponding pin of insulator assembly ⑦.
2. Install the insulator snap ring ⑦ onto the welded insulator assembly ⑧, and note that the notch on the snap ring ⑦ corresponds to the convex key on the insulator assembly ⑧.
3. Push the insulator assembly ⑧ insulator snap ring ⑦ adapter ⑤ into the plug assembly ⑨ in turn, and note that the adapter is stuck in the slot of the plug assembly ⑨.
4. Adjust the proper position of the cable clamp and the cable, push the shield wire pressing ring ④, the cable sealing ring ③ and the cable clamp ② to the appropriate position in turn, and ensure that the complete sheath of the cable is inserted into the shield wire pressing ring ④.
5. Tighten the tail nut ① to the plug assembly ⑨.

F series connector plug



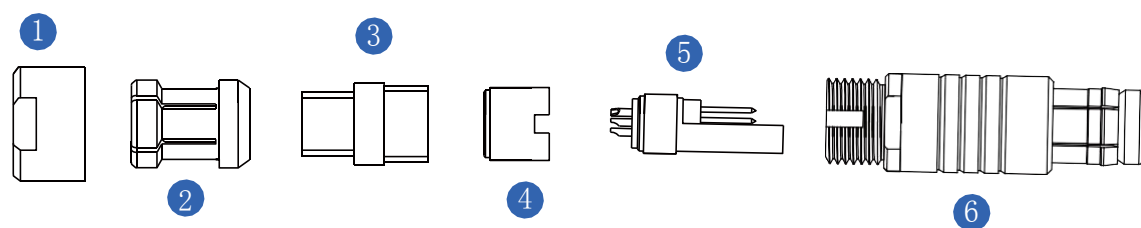
Type S:

1. Weld the tail nut ① cable clamp ② of the cable to the corresponding pin of the insulator assembly ③ in sequence.
2. Install the insulator retaining ring ② onto the insulator assembly ③. Note that the protrusion of the insulator retaining ring ② corresponds to the notch of the insulator assembly ③. Push the insulator assembly ② and the insulator assembly ③ to the appropriate position of the cable.
3. Tighten the tail nut ① to the plug assembly ④.
4. Install the sheath ① onto the tail nut ②.



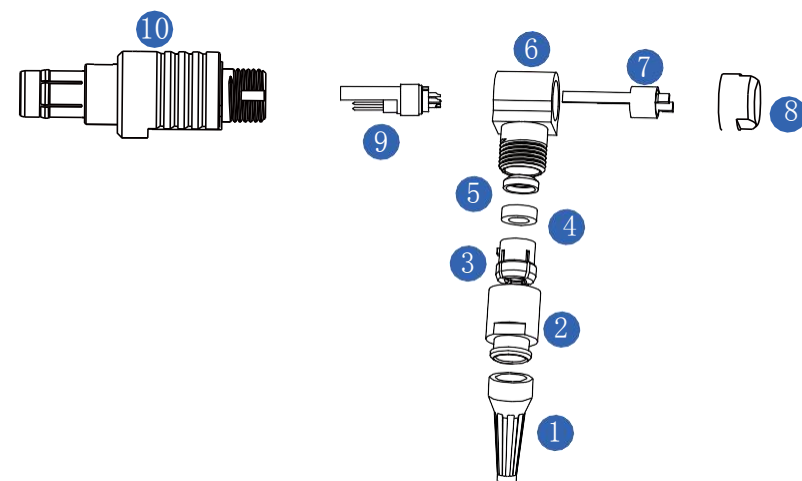
Type M:

1. Weld the cable tail nut ① cable clamp ② cable sealing ring ③ shield wire pressing ring ④ cable sealing ring ⑤ to the corresponding pin of insulator assembly ⑥ in sequence.
2. Install the insulator snap ring ⑤ onto the insulator assembly ⑥. Note that the protrusion of the insulator snap ring ⑤ corresponds to the notch of the insulator assembly ⑥. Push the shield wire pressing ring ④ cable sealing ring ③ cable clamp ② to the appropriate position in turn to ensure that the complete sheath of the cable is inserted into the shield wire pressing ring ④.
3. Install the installed insulator assembly ⑥ into the plug assembly ⑦, and note that the notch on the insulator snap ring ⑤ corresponds to the protrusion in the plug assembly ⑦.
4. Tighten the tail nut ① to the plug assembly ⑦.



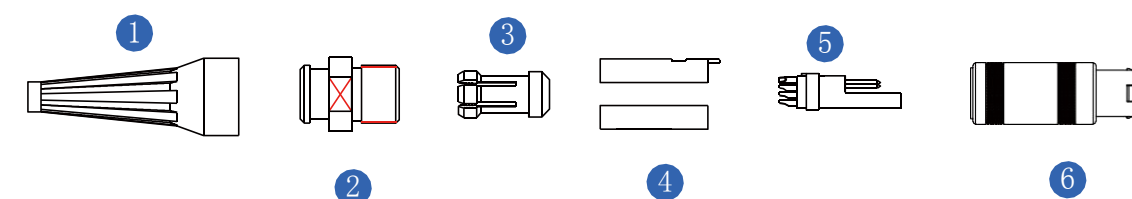
Type U:

1. Weld the cable tail nut ① cable clamp ② bushing ③ insulator retaining ring to the corresponding pin of insulator assembly ⑤ in sequence.
2. Install the bushing ③ onto the insulator retaining ring ④. Note that the protrusion of the insulator retaining ring corresponds to the notch of the insulator retaining ring ④,
3. Install the installed insulator retaining ring ④ into the plug assembly ⑥, and note that the notch on the insulator retaining ring ⑤ corresponds to the protrusion in the plug assembly ⑥.
4. Tighten the tail nut ① to the plug assembly ⑥.



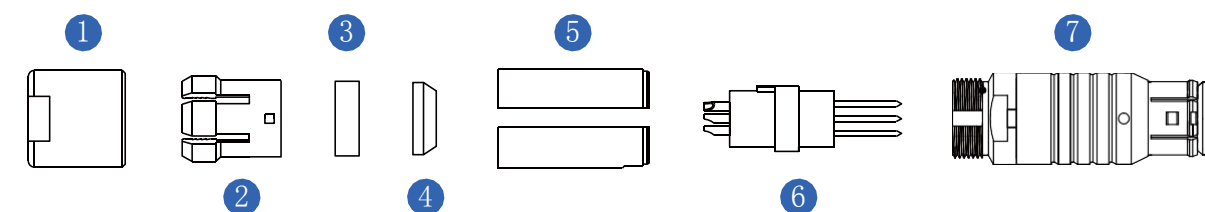
1. Pass the cable through the sheath ① tail nut ② cable clamp ③ cable sealing ring ④ shield wire pressing ring ⑤ in turn through the adapter ⑥ and weld it to the insulator assembly ⑦.
2. Install the insulator assembly ⑦ onto the welded insulator assembly ⑧, and note that the notch on the snap ring ⑦ corresponds to the convex key on the insulator assembly ⑨
3. Push the insulator assembly ⑨ adapter ⑥ into the plug assembly ⑩ in turn, and note that the adapter is stuck in the two slots of the plug assembly ⑩.
4. Adjust the proper position of the cable clamp and the cable, install the cable clamp ③ on the adapter ⑥, note that the convex key on the cable clamp ③ should be aligned to the groove in the adapter ⑥, and the cable clamp ③ should clamp the cable sheath.
5. Tighten the tail nut ⑧ to the plug assembly ⑩.
6. Put the sheath ① onto the corresponding step of the tail nut ②.

S series connector plug



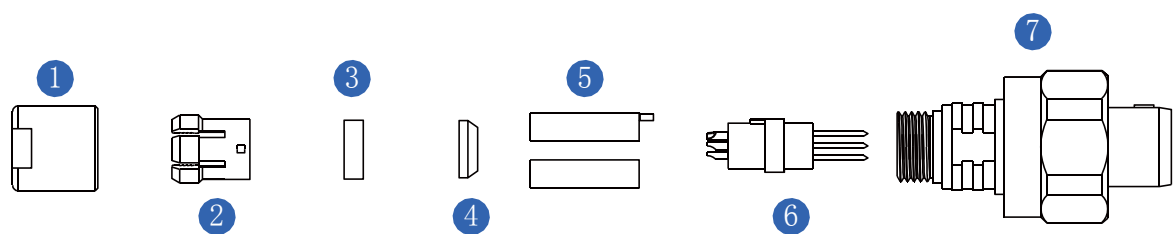
1. Pass the cable through the tail sheath ① tail cap ② cable clamp ③ insulator retaining ring ④ in sequence and weld it to the insulator assembly ⑤.
2. Install the insulator retaining ring ④ onto the insulator assembly ⑤, note that the protrusion of the insulator retaining ring ④ corresponds to the notch of the insulator assembly ⑥, and push the cable clamp ③ to the appropriate position of the cable.
3. Push the assembled cable clamp ③ and insulator retainer ④ into the plug assembly ⑤.
4. Tighten the tail nut ② into the plug assembly ⑥.
5. Tighten the sheath ① onto the tail cap ②.

C series connector plug



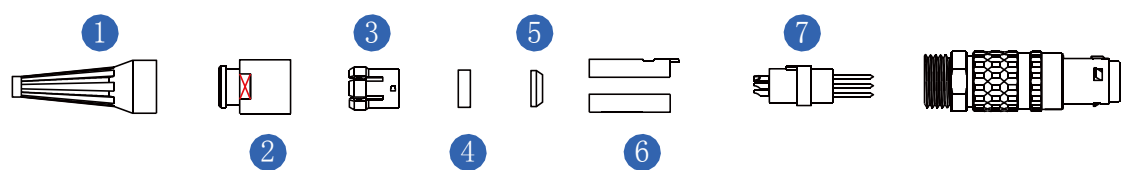
1. Weld the cable tail nut ① cable clamp ② cable sealing ring ③ shield wire pressing ring ④ to the corresponding pin of insulator assembly ⑤ in sequence.
2. Install the insulator snap ring ⑤ onto the insulator assembly ⑥. Note that the protrusion of the insulator snap ring ⑤ corresponds to the notch of the insulator assembly ⑥. Push the shield wire pressing ring ④ cable sealing ring ③ cable clamp ② to the appropriate position in turn to ensure that the complete sheath of the cable is inserted into the shield wire pressing ring ④.
3. Install the installed insulator assembly ⑥ into the plug assembly ⑦, and note that the notch on the insulator snap ring ⑤ corresponds to the protrusion in the plug assembly ⑦.
4. Tighten the tail nut ① to the plug assembly ⑦.

W series connector plug



1. Weld the cable tail nut ① cable clamp ② cable sealing ring ③ shield wire pressing ring ④ to the corresponding pin of insulator assembly ⑤ in sequence.
2. Install the insulator snap ring ⑤ onto the insulator assembly ⑥. Note that the protrusion of the insulator snap ring ⑤ corresponds to the notch of the insulator assembly ⑥. Push the shield wire pressing ring ④ cable sealing ring ③ cable clamp ② to the appropriate position in turn to ensure that the outer skin of the cable is inserted into the shield wire pressing ring ④
3. Install the installed insulator assembly ⑥ into the plug assembly ⑦, and note that the notch on the insulator snap ring ⑤ corresponds to the protrusion in the plug assembly ⑦.
4. Tighten the tail nut ① to the plug assembly ⑦.

T series connector plug



1. Pass the cable through the sheath ① tail nut ② cable clamp ③ washer ④ cable sealing ring ⑤ shielding wire snap ring ⑥ in turn, and weld it to the corresponding pin of insulator assembly ⑦ in sequence.
2. Install the insulator snap ring ⑥ onto the insulator assembly ⑧, pay attention to the correspondence between the groove of insulator ⑥ and the convex key of insulator assembly ⑧, and push the shield wire pressing ring ⑥, cable sealing ring ⑤, washer ④ and cable clamp ③ to the appropriate position in turn to ensure that the complete sheath of the cable is inserted into the shield wire pressing ring ⑥.
3. Install the installed insulator assembly ⑧ and locating collar into the plug assembly ⑩, and note that the notch on the insulator snap ring ⑦ corresponds to the protrusion in the plug assembly ⑩.
4. Tighten the tail nut ② to the plug assembly ⑩.
5. Install the sheath ① onto the tail nut ②.

Single core coaxial connector

Series	Number	Needle core model	Test voltage	Test voltage	Rated current	Contact diameter	Body size
00s	113	Welding	800v	1200v	8a	1.3mm	Refer to s series TFA plug and zra socket
	250	Welding	2100v	3000v	4a	0.7mm	
0s	116	Welding	1500v	2100v	12a	1.6mm	
	250	Welding	3000v	4200v	6a	0.9mm	
1s	120	Welding	1700v	2400v	18a	2.0mm	
	250	Welding	3000v	4200v	12a	1.6mm	
	275	Welding	2400v	3300v	10a	1.3mm	



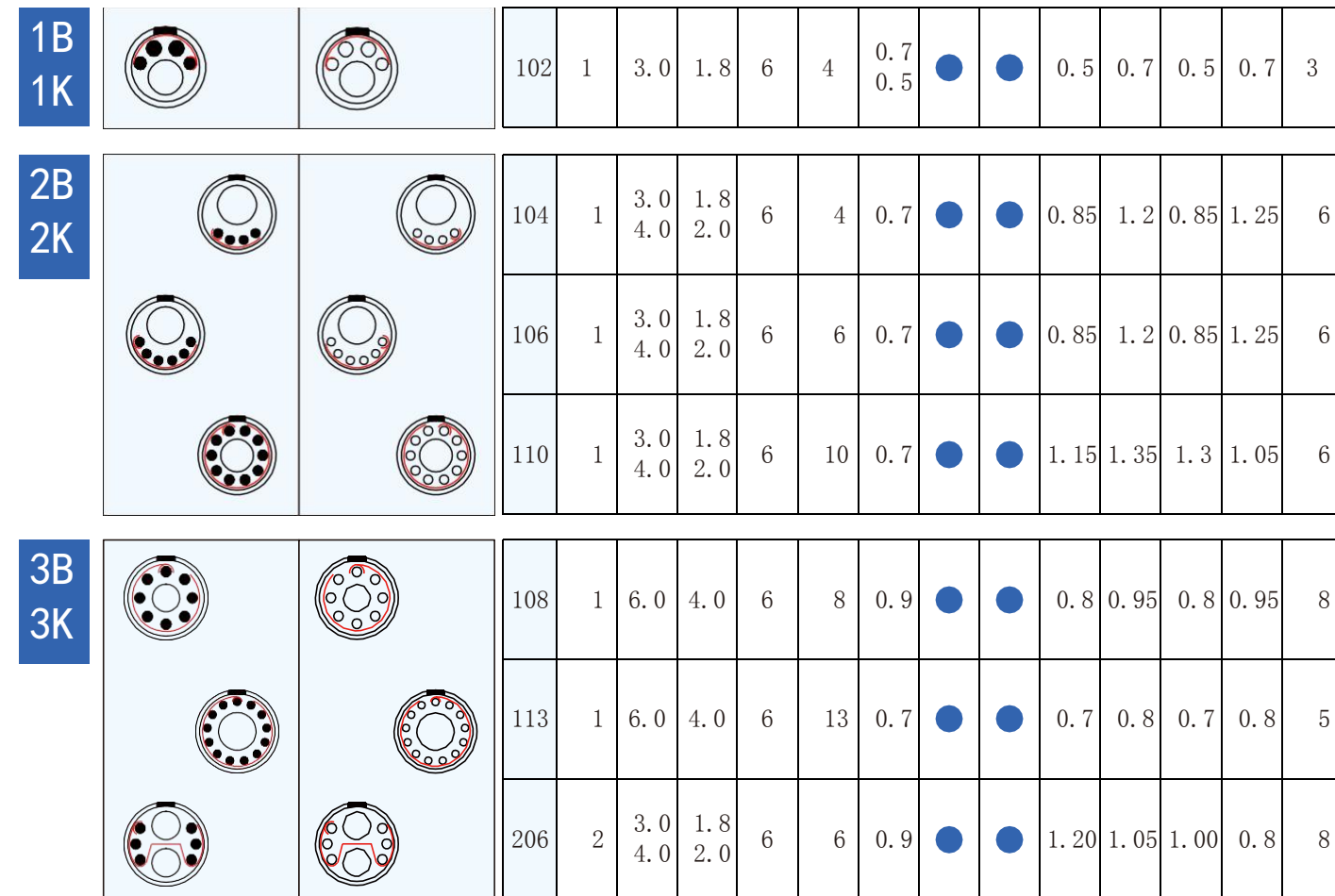
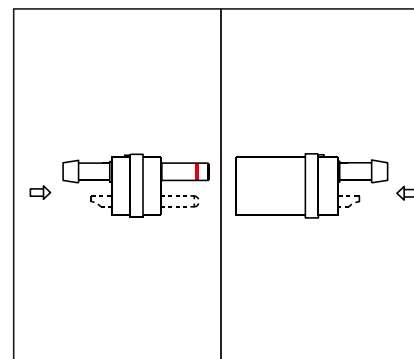
Mixed installation: Multi coaxial, coaxial + low voltage

Number	Coaxial needle core			Low pressure							
	Number of needle cores	Impedance (Ω)	Cable group	Number of needle cores	(Mm)∅	Core type		Test voltage (kv RMS)	Test voltage (kv DC)	Rated current (a)	
						Welding	Crimping				
2B 2K	806	1	50	1-2-3	6	0.7	●	●	0.75	1.05	7
	810	1	50	1-2-3	10	0.7	●	●	0.95	1.35	7
3B 3K	808	1	50	1-2-3	8	0.9	●	●	1.0	1.5	8
	813	1	50	1-2-3	13	0.7	●	●	0.9	1.3	7
	906	2	50	1-2-3	6	0.9	●	●	0.9	1.3	10



Mixed loading: Gas + low pressure

Number	Gas				Low voltage (LV)									
	Number of jet pipes	Outer diameter of trachea	Inner diameter of trachea	Maximum working pressure	Number of cores	(Mm)∅	Core type		Welding		Crimping		Rated current (a)	
							Welding	Crimping	Test voltage - pin core	Test voltage - enclosure	Test voltage - pin core	Test voltage - enclosure		
1B 1K	102	1	3.0	1.8	6	4	0.7 0.5	●	●	0.5	0.7	0.5	0.7	3
	2B 2K	104	1	3.0 4.0	1.8 2.0	6	4	0.7	●	●	0.85	1.2	0.85	1.25
3B 3K	106	1	3.0 4.0	1.8 2.0	6	6	0.7	●	●	0.85	1.2	0.85	1.25	6
	110	1	3.0 4.0	1.8 2.0	6	10	0.7	●	●	1.15	1.35	1.3	1.05	6
	206	2	3.0 4.0	1.8 2.0	6	6	0.9	●	●	1.20	1.05	1.00	0.8	8



B series Indoor

K series Outdoor

S series Indoor

F series outdoor

W series Deepwater connector

Y Series Outdoor

U series Outdoor

2C series Indoor



Main features and advantages

1. Safe push-pull self-locking system;
2. Multi core type 2-30 cores;
3. Welding and PCB pin cores (straight and bent);
4. High density installation, saving space;
5. Multiple key positions are selected to avoid mixed insertion between similar connectors;
6. 360 degree shielding provides comprehensive EMC protection.

Main features and advantages

1. Safe push-pull self-locking system;
2. Multi core type 2-30 cores;
3. Welding and PCB pin cores (straight and bent);
4. High density installation, saving space;
5. Multiple key positions are selected to avoid mixed insertion between similar connectors;
6. 360 degree shielding provides comprehensive EMC protection.
7. Waterproof connector (ip66/ip68);
8. Rugged housing design for harsh outdoor applications

Main features and advantages

1. Safe push-pull self-locking system;
2. Number of cores: single core -10 cores;
3. Welding and PCB pin cores (straight and bent);
4. High density installation, saving space;
5. Ladder shaped (half moon type) insert core, the insulator is equipped with male and female needle cores at the same time, with polarity positioning;
6. 360 degree shielding provides comprehensive EMC protection.

Main features and advantages

1. Safety split push-pull self-locking system;
2. Multi core type 2-30 cores;
3. Welding and PCB pin cores (straight and bent);
4. High density installation, saving space;
5. 360 degree shielding provides all-round EMC protection;
6. Semicircular metal ring positioning to avoid misinsertion;

Main features and advantages

1. Threaded connection;
2. Multi core type;
3. Welding and crimping needle core;
4. 50m deep waterproof;
5. High density installation, saving space;
6. Four positioning modes are available;
7. Temperature range -20 °C -200 °C;
8. 360 degree shielding provides all-round EMC protection against electromagnetic interference;
9. IP68, plug and unplug 5000 times.

Main features and advantages

1. Safety split push-pull self-locking system;
2. Multi core type, 2-16 cores;
3. Welding and connecting pin core of printed board (straight type and angle type);
4. Military industrial DC and AC connectors;
5. High density installation, saving space;
6. Opening size m9/m145 double key position groove + double semicircle double positioning anti stupidity;
7. IP68, plug and unplug 5000 times.

Main features and advantages

1. Safe push-pull self-locking system;
2. Multi core type 2-13 cores;
3. Welding and connecting pin core of printed board (straight type and angle type);
4. High density installation, space saving, opening size m7/m9/m10
5. Three key position slot + double semicircle positioning double positioning anti freeze;
6. 360 ° shielding provides all-round EMC protection (anti electromagnetic interference);
7. IP68, plug and unplug 5000-10000 times

Main features and advantages

1. Safe push-pull self-locking system;
2. Multi core type 2-14 cores;
3. Ultra short high-density installation, saving space;
4. 360 degree shielding provides all-round EMC protection;
5. High and low insulators are positioned to prevent MIS insertion.

C series Outdoor

T series Outdoor

E series Outdoor

FS Outdoor

P series Indoor

Coaxial series Indoor

Gas electricity series Indoor

Coaxial mixed Indoor



Main features and advantages

1. The shell is made of copper alloy with chromium or nickel plating on the surface. Stainless steel can be used for special requirements;
2. The pins and jacks are made of copper alloy, and the surface is plated with gold;
3. The insulator is made of engineering plastics with high temperature resistance and good insulation performance by injection molding;
4. The sheath adopts soft engineering plastic injection molding, which can well protect the cable.
5. The waterproof sealing ring is made of high temperature resistant silicone rubber.

Main features and advantages

1. Safe push-pull self-locking system;
2. Multi core type, 2-16 cores;
3. Welding and connecting pin core of printed board (straight type and angle type);
4. High density installation, space saving, opening size m9/mi2
5. Multi key position selection to avoid mixed insertion;
6. Positioning pin system (G is the standard positioning pin) is used for connector positioning;
7. 360 degree shielding provides all-round EMC protection (anti electromagnetic interference);

Main features and advantages

1. Secure plug-in self-locking system
2. Waterproof connection (ip68/ip66)
3. The stepped (half moon) insert core is equipped with male and female needle cores at the same time, with polarity positioning
4. Welding, crimping and PCB pin core (straight or angled)
5. 360 ° shielding provides comprehensive EMC protection (anti electromagnetic interference)
6. Rugged housing design for extreme working conditions

Main features and advantages

1. Safety split push-pull self-locking system
2. Waterproof connection (ip68/ip66)
3. The stepped (half moon) insert core is equipped with male and female needle cores at the same time, with polarity positioning
4. Welding, crimping and PCB pin core (straight or angled)
5. 360 ° shielding provides all-round EMC protection (anti electromagnetic interference)
6. Rugged housing design for extreme working conditions

Main features and advantages

1. 1. Safe push-pull self-locking system;
2. 2 multi core type 2-30 cores;
3. 3. Welding and PCB pin cores;
4. 4. High density installation, saving space;
5. 5. The tail nut and socket round nut are distinguished by color to prevent misinsertion

Main features and advantages

1. Secure plug-in self-locking system
2. Coaxial, triaxial, and hybrid core configurations
3. Welding or PCB pin core, suitable for coaxial and triaxial pin core configuration
4. Semicircle positioning, male and female needle cores can be configured
5. 360 ° shielding, providing all-round EMC shielding (anti electromagnetic interference)

Main features and advantages

1. Secure plug-in self-locking system
2. Configuration of gas circuit and mixed needle core
3. Waterproof connection (ip50/ip68)
4. Welding or crimping needle core
5. 360 ° shielding provides all-round EMC shielding (anti electromagnetic interference)
6. A variety of locating pins can be selected to avoid mixed insertion between connectors
7. High density installation, saving space (<g> positioning pin is the standard positioning method)

Main features and advantages

1. Secure plug-in self-locking system
2. Coaxial, triaxial and mixed core configurations
3. Waterproof connection (ip50/ip68)
4. Welding or crimping needle core
5. Up to 10 coaxial cores
6. 360 ° shielding provides all-round EMC shielding (anti electromagnetic interference)
7. A variety of locating pins can be selected to avoid mixed insertion between connectors
8. High density installation, space saving (<g> positioning pin is the standard positioning method)

Cable harness processing

In order to provide customers with one-stop service, we also provide cable welding service. Cables can be provided by customers or use the pilot standard line. Our company has skilled welding line technicians, and each line will undergo complete point-to-point conduction test and high voltage test to avoid possible problems. In order to meet various special requirements of customers, our company will spare no effort and go all out.

- Mixed cable
- Miniature cable
- Coaxial cable
- Triax cable
- Video cable
- Audio cable
- Multicore cable
- Spiral cable
- PTFE cable
- Viton
- High voltage cable
- Silicone rubber cable
- Base station cable
- Cable assembly
- Plastic optical cable
- Computer cable
- Pur cable
- optical cable
- Cat 5 / cat 7 flat cable
- Special composite cable



Thank you!



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