



GLOBIX

Connector Product Catalog

High Speed / Miniature / Custom Assembly

Product Catalog

Globix Connector Series

1	GB-B Series Push-Pull Connectors	14
	■ Standard metal push-pull connectors	
2	GB-K Series Waterproof Push-Pull Connectors	27
	■ Waterproof push-pull connectors	
3	GB-T Series Miniature Push-Pull Connectors	34
	■ Miniature push-pull connectors	
4	GB-S Series Half-Moon Insert Connectors	42
	■ Half-moon insert connectors	
5	GB-E Series Coaxial & Stepped Insert Connectors	52
	■ Coaxial / stepped insert connectors	
6	GB-1P Series Connectors	59
	■ 1P series connectors	
7	GB-F Series Circular Push-Pull Connectors	64
	■ Industrial circular push-pull connectors	
8	Insert Configuration, Cable Collet, Bend Relief	76
	■ Insert layout, collets and bend reliefs	
9	PCB Drilling Pattern	93
	■ PCB drilling layouts	

Catalog Guide

Globix model structure and product specification references

Globix Model Naming

GB-BTGG.1B.303.CPARD32Z - straight plug with special appearance prefix

GB-ZCG.1B.3XX.CPLR - fixed receptacle, G key, 1B series

GB-DHG.1B.303.CPLRD32Z - cable-mounted receptacle with bend relief nut

Catalog Sections

Model Coding

GB prefix, model mapping, keying and series rules.

Mechanical Details

Housing, cable fixing, variants and outline dimensions.

Performance Data

Contact, voltage, current and environmental ratings.

Product Drawings

Connector dimensions, panel cut-outs and inserts.

Use the GB model prefix and Globix naming rules throughout formal specifications.

Connector Applications



Aerospace



Medical



Automotive



Industrial Control



Communications, Audio-Video



Military

Product Families

Globix B series model overview

Straight Plugs

GB-TGG / GB-TEG / GB-TNG / GB-JGG

Cable collet plugs, short shells and lanyard release variants.

Elbow Plugs

GB-THG / GB-TSG

Right-angle plug styles for compact routing and adjustable orientation.

Fixed Receptacles

GB-ZCG / GB-ZEG / GB-ZHG / GB-ZIG / GB-ZZG

Front or back panel mounting styles with solder, PCB and elbow PCB contacts.

Cable Receptacles

GB-DHG / GB-P-ZKG / GB-DFG / GB-DEG

Free socket styles with standard back nut or bend relief nut options.

Watertight Models

GB-MGG / GB-MEG / GB-ZXG / GB-ZPG

Sealed connector options for demanding industrial and outdoor applications.

Insert Options

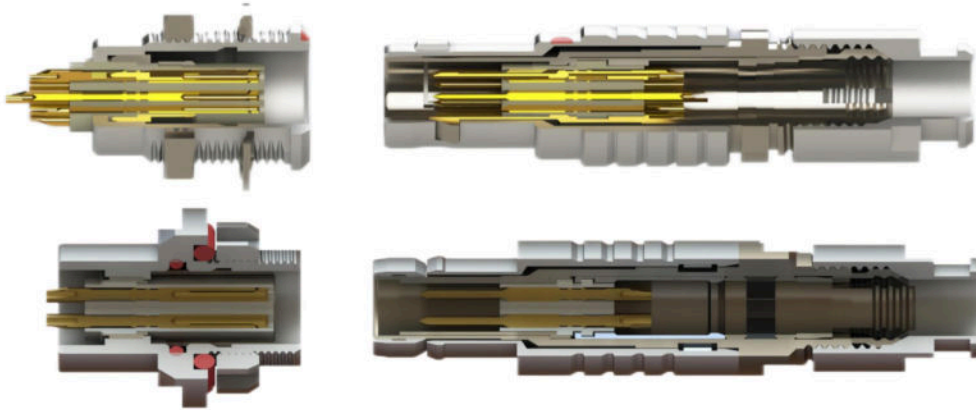
Low voltage / High voltage / Coaxial / Mixed

Multipole inserts and contact layouts matched to the source drawing.

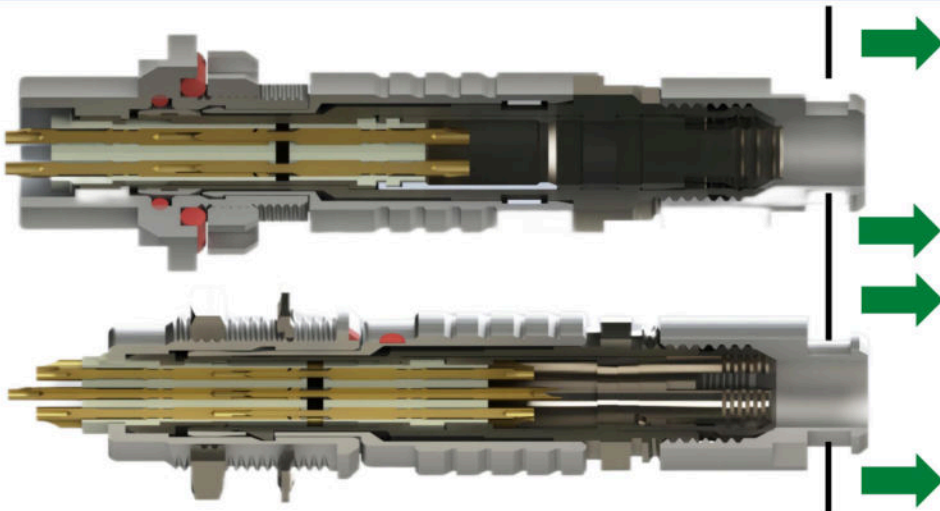
All catalog model names follow the GB naming system. Source drawing codes are not shown as catalog model names.

Globix push pull self-latching connectors

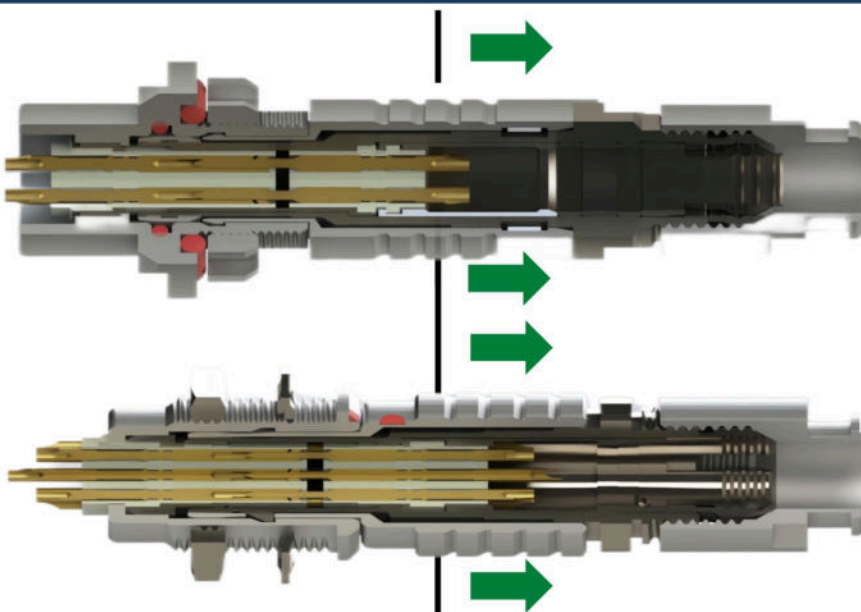
Push pull self-latching connectors are designed for quick mating and un-mating, with secure locking against vibration, shock and cable pull in compact installation spaces.



Just simply pushing the plug axially into the socket, and they can be mated.



Once latched, connection can't be broken by pulling on the cable or any other part other than the outer release sleeve.

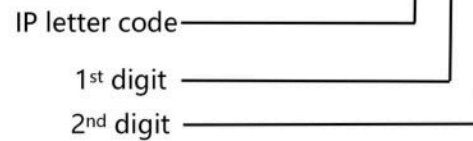


When required, just by a single axial pull on the outer release sleeve, the connector will be disengaged and then you can withdraw the plug from the socket.

Definition of Ingress Protection (IP code)

Classification system for the sealing effectiveness of enclosures of electrical equipment against the intrusion into the equipment of foreign bodies (i.e. tools, dust, fingers) and moisture. This classification system utilizes the letters «IP» (Ingress Protection) followed by two digits.

Example: IP50=IP 5 0



Protection Degrees—the first digit

The first digit of the IP code means the degree to which persons are protected against contact with moving parts and the degree that equipment is protected against solid foreign bodies intruding into an enclosure.

Code	1 st digit description
0	No special protection
1	Protection from a large part of the body such as hand or from solid objects more than 50 mm in diameter
2	Protection against objects less than 80 mm in length and 12 mm in diameter.
3	Protection from entry by tools, wires, ect, with a diameter or thickness more than 2.5 mm
4	Protection from entry by solid objects with a diameter or thickness more than 1.0 mm
5	Protection from dust that would interfere with the operation of the equipment.
6	Dust-tight
7	-
8	-

Protection Degrees—the second digit

The second digit indicates the degree of protection of the equipment inside the enclosure against the harmful entry of various forms of moisture (e.g. dripping, spraying, submersion, etc.)

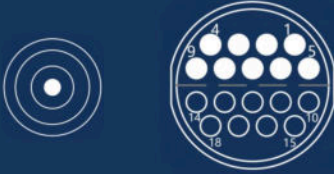
Code	2 nd digit description
0	No special protection
1	Protection from vertically dripping water
2	Protection from dripping water when tilted up to 15°
3	Protection from sprayed water
4	Protection from splashed water
5	Protection from water projected from a nozzle
6	Protection against heavy seas, or powerful jets of water
7	Protection against temporary immersion
8	Protection against complete continuous submersion in water

► Step 2: Select the right connector size and insert configuration

Find out the available contact diameter based on the number of contacts required the rating required.
Select the right contact diameter according to the cross-section area of cable conductor (mm) or AWG, see page 5. The following table shows the contact diameter.

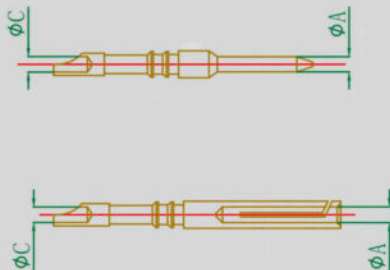
Part number coding . . .

0, 1, A, 2, 3, 4....

No. of Contact	Insert Configuration	Series									
											
		00B	0B-0K-0T	1B-1K-1T	2B-2K-2T	3B-3K-3T	0S	1S	2S	3S	
multipole	2	302	0.5	0.9	1.3	2.0	3.0	0.9	1.3	1.6	2.0
	3	303	0.5	0.9	1.3	1.6	2.0	0.7	0.9	1.3	2.0
	4	304	0.5	0.7	0.9	1.3	2.0	0.7	0.9	1.3	2.0
	5	305	0.35	0.7	0.9	1.3	1.6		0.9/0.7	1.3	2.0/1.3
	6	306	0.35	0.5	0.7	1.3	1.6		0.7	1.3	1.3
	7	307		0.5	0.7	1.3	1.6			1.3/0.9	1.3
	8	308			0.7	0.9	1.3			0.9	1.3
	9	309		0.5			1.3/2.0				
	10	310			0.5	0.9	1.3			0.9	1.3
	12	312		0.35		0.7	0.9				0.9
	13	313									0.9
	14	314			0.5	0.7	0.9				0.9
	16	316			0.5	0.7	0.9				0.9
	18	318				0.7	0.9				0.9
	19	319				0.7					
	20	320					0.7				
	22	322				0.5	0.7				
	24	324					0.7				
	26	326					0.7				
	27	327									
	40	340									

Verify the fitting to your wire

Verify if the selected contact diameter(ϕA) fits to your cable wire diameter (AWG number or max. available section)

Contact Type	Contact			Conductor						F _F ¹⁾ N)	Note
				Solid		Stranded					
	φA (mm)	φC (mm)	Form			AWG Max.	Section max. (mm ²)	AWG			
				Min.	Max.			Min.	Max.		
Solder 	0.35	0.4	-	28	0.09	-	30	-	0.05	-	●
	0.5	0.4		28	0.09		30		0.05		
	0.5	0.457)		28	0.09		28		0.09		
	0.73)	0.63)		24	0.25		26		0.14		
	0.7	0.8		22	0.34		224)		0.34		
	0.9	0.86)		226)	0.346)		224)6)		0.346)		
	1.3	1.0		20	0.5		204)		0.5		
	1.6	1.4		16	1.0		18		1.0		
	2.0	1.8		14	1.5		16		1.5		
	3.0	2.7		10	4.0		12		4.0		
	4.0	3.7		10	6.0		10		6.0		
	5.0	5.2	-	-	8	10.0					
	6.0	5.2	-	-	8	10.0					
	8.0	7.0	-	-	4	21.0					
	12.0	11.5	-	-	0	50.0					

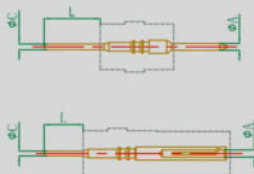
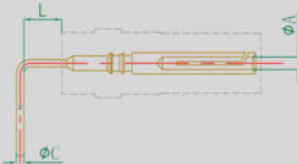
Note:

- 1) Contact retention force in the insulator (according to IEC60512 - 8 test 15 a)
- 2) For 00 multipole series.
- 3) For S series
- 4) For a given AWG, the diameter of some stranded conductor design is larger than the solder cup diameter. Make sure that the max. conductor diameter is smaller than ϕC .
- 5) For 00 multipole series or for 0B/0T and 1B/1T series with male contacts.
- 6) For 0B.302/0B.303, 0K.302/0K.303 and 0T.302/0T.303, $\phi C=1.0\text{mm}$, AWG max. is 20, section max. is 0.50 (mm²)
- 7) For 00 and 1B/1K/1T series, considering manufacturing and plating tolerance, $\phi C_{\min}=0.43\text{mm}$

• Normal part numbers ○ special/customization

Verify the fitting to your wire

Verify if the selected contact diameter(ϕA) fits to your cable wire diameter (AWG number or max. available section)

Contact Type	Contact			Conductor						F _F ¹) N)	Note	
				Solid		Stranded						
	φA (mm)	φC (mm)	Form	AWG Max.	section Max. (mm ²)	AWG		Section(mm ²)				
						Min.	Max.	Min.	Max.			
Print											L dimensions and C are detailed in the section on PCB drilling pattern. See page 87 and page 95	•
Print (Elbow)											L dimensions and C are detailed in the section on PCB drilling pattern. See page 87 and page 95	•

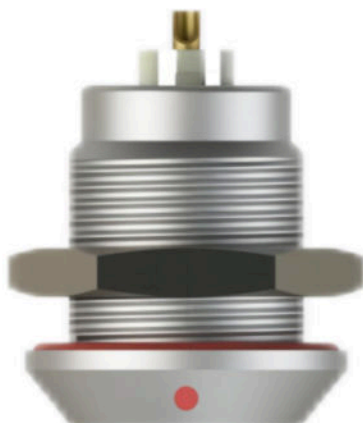
Verify the fitting to your cable.

Verify if the selected connector size fits to your cable diameter.

Series	Cable diameter range (mm)			
	Cable collet		Collet for fitting a bend relief	
	Min.	Max.	Min.	Max.
00B	1.4	3.5	1.4	3.5
0B	1.4	5.6	1.4	5.2
1B	2.2	7.6	2.2	7.2
2B	1.4	9.9	1.4	9.2
3B	4.2	11.9	4.2	11.0
4B	4.9	16.0	4.9	15.0
0K	1.0	5.0	1.0	5.0
1K	1.3	8.5	1.3	8.5
2K	1.3	10.5	1.3	10.5
3K	2.6	15.0	2.6	15.0

Series	Cable diameter range (mm)			
	Cable collet		Collet for fitting a bend relief	
	Min.	Max.	Min.	Max.
0T	1.0	5.0	1.0	5.0
1T	1.3	6.5	1.3	6.5
2T	1.3	8.5	2.2	8.5
3T	2.6	10.5	1.4	10.5
00S	1.3	4.4	4.2	4.4
0S	1.3	6.2	4.9	6.2
1S	1.4	8.7	1.0	8.7
2S	1.3	10.5	1.3	10.5
3S	2.6	13.0	1.3	13.0

B、K、T Series



B Series

K Series

T Series

GB Model Numbering System

Globix B series connector coding reference

Typical GB Part Numbers

Straight plug

GB-BTGG 1B 303 C P A R D32 Z

GB-BTGG.1B.303.CPARD32Z

Cable receptacle

GB-BDHG 1B 303 C P L R D32 Z

GB-BDHG.1B.303.CPLRD32Z

Fixed receptacle

GB-ZCG 1B 3XX C P L R

GB-ZCG.1B.3XX.CPLR

Code	Value	Meaning
Prefix	GB	Globix product prefix.
Model	TGG / THG / TNG / ZCG / ZEG / DHG	Globix model family, keeping real appearance prefixes when present.
Series	00B / 0B / 1B / 2B / 3B	Connector size or series.
Contacts	303 / 304 / 3XX	Insert and number of contacts; 3XX is used for variable inserts.
Housing	C / K / N	Pearl chrome, black chrome, or nickel plated brass.
Insulator	P / L / T	PPS, PEEK, or PTFE.
Contact	A / L / D / N / V / W / M	Solder, PCB, elbow PCB, or crimp contacts.
Variant	Z	Nut for fitting bend relief, only when required.

■ Coding Notes

- 1 Outer shell pattern: special appearance prefix (B) only when shown in the source model.
- 2 Model: Globix families use TGG/THG/TNG for plugs, DHG for free sockets, and ZEG/ZCG for fixed sockets.
- 3 Alignment key: G, A, B, C, D, E, F, J, K, L ...
- 4 Series: 00B, 0B, 1B, 2B, 3B ...
- 5 Contact type: standard multipole contacts, high voltage, coaxial and other drawing-defined inserts.
- 6 Number of contacts: 3 contacts (03), 4 contacts (04), or 3XX when the insert is variable.
- 7 Housing: pearl chrome plated brass (C), black chrome plated brass (K), nickel plated brass (N).
- 8 Insulator: PPS (P), PEEK (L), PTFE (T).
- 9 Contact: L female solder, A male solder, N female PCB, D male PCB, V/W 90 degree PCB, M crimp.
- 10 Dot color: red (R), white (B).
- 11 Collet type: standard (D), oversized (M).
- 12 Collet size: 3.2mm (32), 4.2mm (42), 10.2mm (102) ...
- 13 Variant: nut for fitting bend relief (Z), only when required by the source drawing.

■ Examples

Straight Plug:	GB-BTGG.0B.303.CPARD32
Cable Mounted Receptacle:	GB-BDHG.0B.303.CPLRD32Z
Fixed Receptacle:	GB-ZEG.0B.303.CPLR

Fixed Receptacle

Metal housing models

Fixed plug



GB-TAG

Elbow plugs



GB-THG



GB-TSG

Straight plugs



GB-TEG



GB-JGG



GB-TGG



GB-TNG

Fixed sockets



GB-ZCG



GB-ZCG



GB-ZCG



GB-ZEG



GB-ZGG



GB-ZHG



GB-ZIG



GB-ZZG



GB-ZYG

Free sockets



GB-DHG



GB-P-ZKG



GB-DFG



GB-DEG

Threaded-latching models



GB-TVH

Watertight or vacuumtight models



GB-G8



GB-MEG



GB-MGG

Elbow socket models

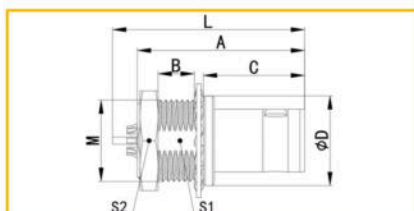


GB-ZXG



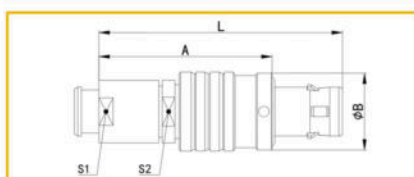
GB-ZPG

GB-TAG-fixed plug,non-latching, nut fixing,key (G) or keys(A...)



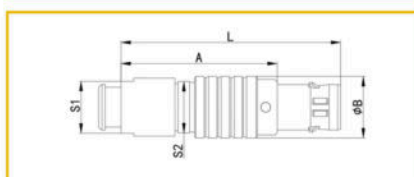
Series	L	A	B _{max}	C	φD	M	S1	S2
00B	≈ 18.1	15	2.9	9	8	M7*0.5	6.3	9
0B	≈ 20.8	18.9	4.2	11.5	10	M9*0.6	8.2	11
1B	≈ 25.2	21.6	5.4	12.5	14	M12*1	10.5	14
2B	≈ 28.7	23.9	6	13.8	18	M15*1	13.5	17
3B	≈ 32.1	30.2	5.8	17	22	M18*1	16.5	22
4B	≈ 37.1	34.7	6.8	20.5	29	M25*1	23.5	30

GB-TEG-straight plug,key (G) or keys(A...), standard nut or nut for fitting a bend relief available (IP54 protection index when mated)



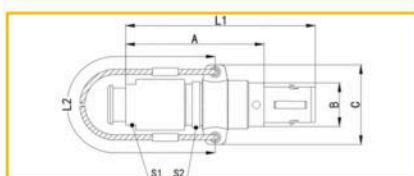
series	L	A	φB	S1	S2			
0B	≈ 35	25	11	7	8			
1B	≈ 42	33	13.5	9	10			
2B	≈ 48	36	16.5	12	13			
3B	≈ 56.5	41.5	19	15	15			

GB-TGG-straight plug,key (G) or keys(A...), standard nut or nut for fitting a bend relief available



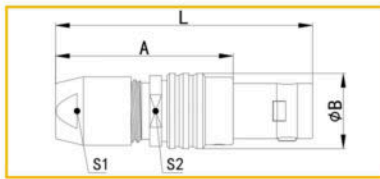
series	L	A	φB	S1	S2			
0B	≈ 35	25	11	7	8			
1B	≈ 42	33	13.5	9	10			
2B	≈ 48	36	16.5	12	13			
3B	≈ 56.5	41.5	19	15	15			

GB-TNG-straight plug,key (G) or keys(A...), standard nut or nut for fitting a bend relief available, lanyard release.



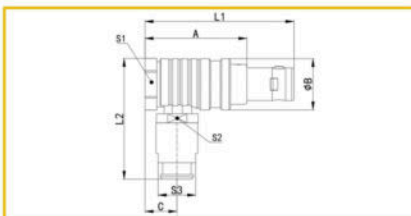
series	L1	L2	A	B	C	S1	S2
0B	≈ 36	≈ 140	26	9.5	15.5	7	8
1B	≈ 42	≈ 140	32	12	18	9	10
2B	≈ 48	≈ 160	37	15	21	12	13

GB-JGG-straight plug, short version, key (G) or keys(A...), standard nut or nut for fitting a bend relief available



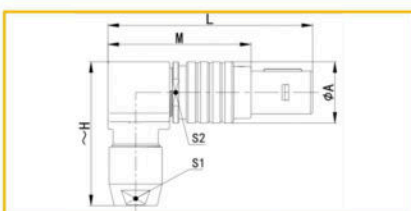
series	L	A	φB	S1	S2
0B	≈ 32	≈ 22	9.5	7	8

GB-THG-Elbow 90 deg plug, key (G) or keys(A...), standard nut or nut for fitting a bend relief available



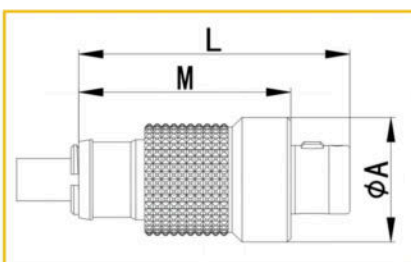
series	L1	L2	A	B	C	S1	S2	S3
00B	≈ 25.3	≈ 18	17	8	5.5	7	5.5	6
0B	≈ 31.6	≈ 23	21.5	11	7	10	8	7
1B	≈ 38.2	≈ 28	27	13.5	9	12	10	9
2B	≈ 43.4	≈ 32	31	16.5	11	15	-	12

GB-TSG-Elbow 90 deg plug, 18 in one adjustable, key (G) or keys(A...), standard nut or nut for fitting a bend relief available



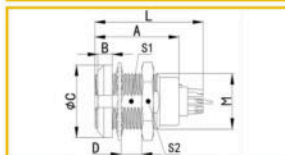
series	A	H	L	M	S1	S2
00B	8.0	18.1	24.8	16.8	5	7
0B	10.0	22.4	30.3	20.3	7	9
1B	12.0	26.4	36.5	25.5	9	11
2B	16.5	34.5	44.0	32.0	12	15

GB-TVB-straight plug, keys(B), short shell for special cable crimping and for fitting a silicone bend relief



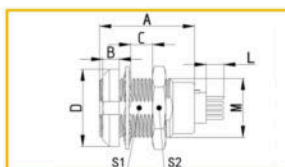
series	A	L	M	-	-
00B	9	20	15.4	-	-

GB-ZCG-Fixed socket with two nuts, key (G) or keys(A...), (back panel mounting)



series	L _{max}	A	B	φC	D _{max}	M	S1	S2
00B	≈ 15.7	12	2.5	10	4.3	M7*0.5	6.3	9
0B	≈ 19.2	14.5	2.5	12	5.5	M9*0.6	8.2	11
1B	≈ 21.5	16.5	3.5	16	6	M12*1	10.5	14
2B	≈ 26.7	18.5	3.5	20	6.5	M15*1	13.5	17
3B	≈ 30.7	22	4.5	23	9	M18*1	16.5	22

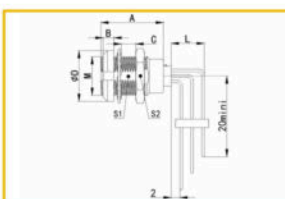
GB-ZCG-Fixed socket with two nuts, key (G) or keys(A...) and straight contact for printed circuit, (back panel mounting)



series	A	B	C _{max}	φD	M	S1	S2
00B	12	2.5	10	4.3	M7*0.5	6.3	9
0B	14.5	2.5	12	5.5	M9*0.6	8.2	11
1B	16.5	3.5	16	6	M12*1	10.5	14
2B	18.5	3.5	20	6.5	M15*1	13.5	17
3B	22	4.5	23	9	M18*1	16.5	22

Note: this contact type is available for Exx socket, the length "L" depends on the No. of contacts, see table on page87

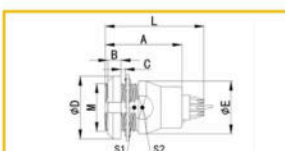
GB-ZCG-Fixed socket with two nuts, key (G) or keys(A...) and elbow contact for printed circuit, (back panel mounting)



series	A	B	φC	D _{max}	M	S1	S2
00B	12	2.5	10	4.3	M7*0.5	6.3	9
0B	14.5	2.5	12	5.5	M9*0.6	8.2	11
1B	16.5	3.5	16	6	M12*1	10.5	14
2B	18.5	3.5	20	6.5	M15*1	13.5	17
3B	22	4.5	23	9	M18*1	16.5	22

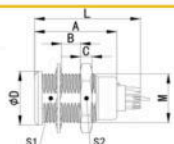
Note: this female contact type is available for all back panel mounting socket models. Length «L» depends on the number of contacts, see PCB drilling pattern on page 90. For male contacts, sockets are available upon request, with J, K or L keys.

GB-ZEG-Fixed socket, nut fixing, key (G) or keys(A...), (back panel mounting)



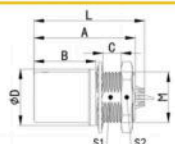
series	L	A	B	C _{max}	φD	φE	M	S1	S2
00B	≈ 15.5	12	2.5	2.3	10	8	M7*0.5	6.4	7.5
0B	≈ 20.7	14.5	2.5	2.4	12	10	M9*0.6	8.2	9
1B	≈ 23	16.5	3.5	6.5	16	14	M12*1	10.5	13
2B	≈ 26.7	18.5	3.5	4.3	20	18	M15*1	13.5	15
3B	≈ 30.7	22	4.5	6.1	23	22	M18*1	16.5	20

GB-ZEG-Fixed socket, nut fixing, key (G) or keys(A...)



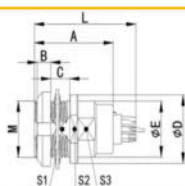
series	L	A	B max	C	φD	M	S1	S2
00B	≈ 15.7	12	6	2	8	M7*0.5	6.3	9
0B	≈ 18.8	14.5	7	2	10	M9*0.6	8.2	11
1B	≈ 21.4	16.5	7.5	2.5	14	M12*1	10.5	14
2B	≈ 24	18.5	8.5	2.5	18	M15*1	13.5	17
3B	≈ 28.2	22	11.5	3	22	M18*1	16.5	22
4B	≈ 34	27	12	5	28	M25*1	23.5	30

GB-ZHG-Fixed socket, nut fixing, key (G) or keys(A...), protruding shell



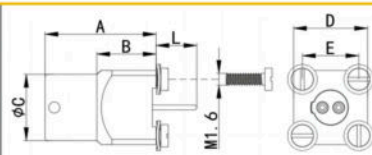
series	L	A	B	C max	φD	M	S1	S2
00B	≈ 15.7	13.7	8.5	2.2	8	M7*0.5	6.3	9
0B	≈ 20.3	18	11	4	10	M9*0.6	8.2	11
1B	≈ 21.3	19	12	3.5	14	M12*1	10.5	14
2B	25.5	22.5	12.5	6	18	M15*1	13.5	17

GB-ZIG-Fixed socket, nut fixing, key (G) or keys(A...), (back panel mounting)



series	L	A	B	C max	φD	φE	M	S1	S2	S3
0B	≈ 18.7	14.5	2.5	3	11	9	M9*0.6	8.2	11	8.2
1B	≈ 21.3	16.5	3.5	2	15	12	M12*1	10.5	14	10.5

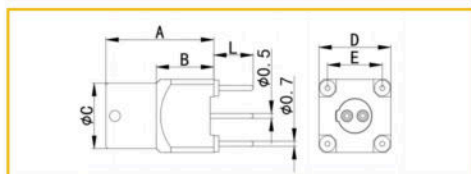
GB-ZZG-straight socket for printed circuit, key (G) or keys(A...)



series	A	B	φC	D	E
0B	15	8	9	10	7.62
1B	20	9	11	12	7.62

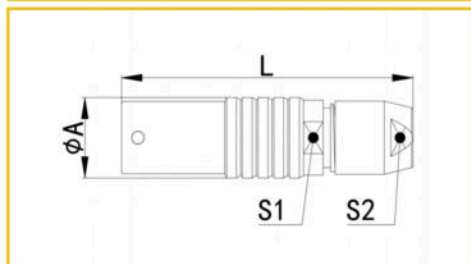
Note: the length "L" depends on the No. of contacts, see table on page 89.

GB-ZZG-straight socket for printed circuit, key (G) or keys (A...)



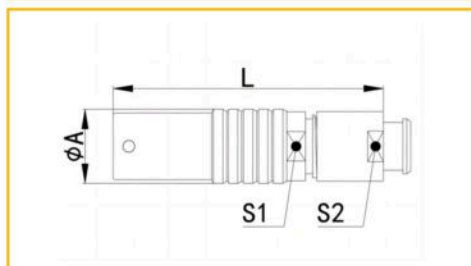
series	L	A	B	φC	D	E
1B	≈ 5	20	9	11	12	7.62

GB-DHG-Free socket, key (G) or keys (A...), cable collet, standard back nut without a bend relief



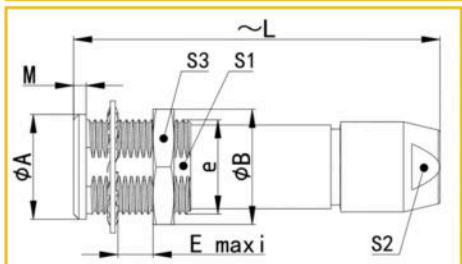
series	≈ L	φA	S1	S2
00B	27.5	7	5.5	5
0B	35.5	9.5	8	7
1B	42	12	10	9
2B	47	16	13	12
3B	56	19	15	14

GB-DHG-Free socket, key (G) or keys (A...), cable collet, nut for fitting a bend relief



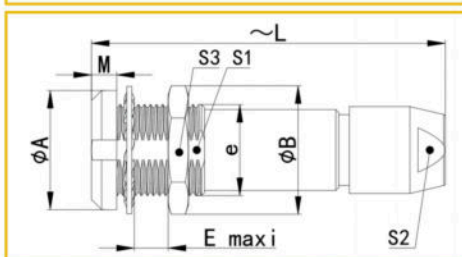
series	≈ L	φA	S1	S2
00B	30	7	5.5	5
0B	34.5	9.5	8	7
1B	39.5	12	10	9
2B	46	16	13	12
3B	54.5	19	15	14

GB-P-ZKG-fixed socket, nut fixing, key (G) or keys (A...), cable collet



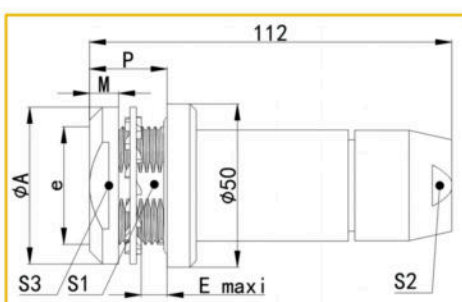
series	A	B	e	E	L	M	S1	S2	S3
00B	8	10.2	M7*0.5	6.5	26.0	1.0	6.3	5	9
0B	10	12.4	M9*0.6	7.0	35.5	1.2	8.2	7	11
1B	14	15.8	M12*1.0	7.5	40.5	1.5	10.5	9	14
2B	18	19.2	M15*1.0	8.5	47.0	1.8	13.5	12	17
3B	22	25.0	M18*1.0	11.5	56.0	2.0	16.5	14	22

GB-DFG-fixed socket with two nuts, key (G) or keys (A...), cable collet(back panel mounting)



series	A	B	e	E	L	M	S1	S2	S3
00B	10	10.0	M7*0.5	5.3	26.0	2.5	6.3	5	9
0B	12	12.4	M9*0.6	5.0	35.5	2.5	8.2	7	11
1B	16	15.8	M12*1.0	5.0	40.5	3.5	10.5	9	14
2B	20	19.2	M15*1.0	6.5	47.0	3.5	13.5	12	17
3B	24	25.0	M18*1.0	9.0	56.0	4.5	16.5	14	22

GB-DEG-fixed socket with two nuts, key (G) or keys (A...), cable collet(back panel mounting)



series	A	B	e	E	L	M	P	S1	S2	S3
3B	24	25	M18*1.0	5.0	56	4.5	12	16.5	14	20
4B	32	34	M25*1.0	12.5	73	5.0	20	23.5	20	27

Note: the 4B series has an -ring on the flange.

Elbow socket models

Technical Characteristics

Types

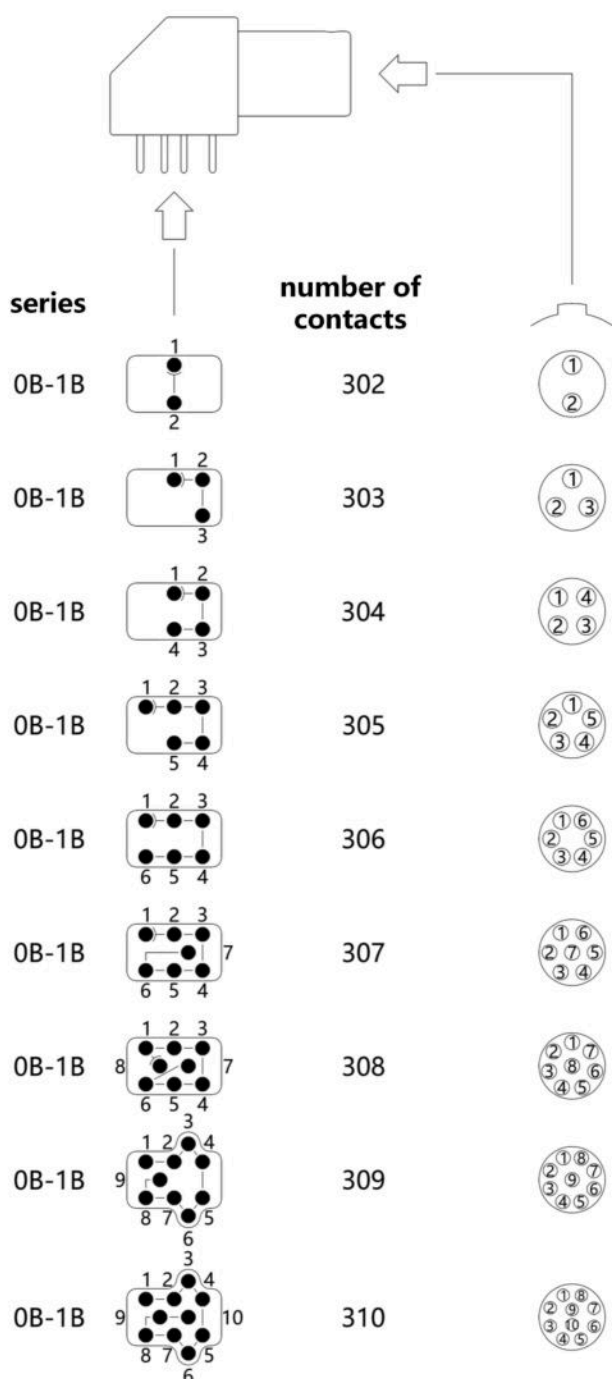
Materials and Treatment

component	Material	Surface treatment		
		C u	N i	A u
Outer shell	PPS	-		
	Brass	0.5	3	
Metallic parts	Brass	0.5	3	
Earthing crown	Brass	0.5	3	
Insulator	PPS	-		
Female contact	Bronze	0.5	3	1.5

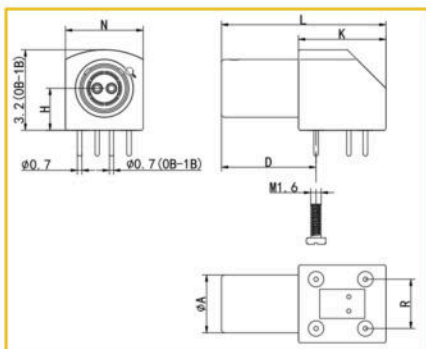
Note: The surface treatment standards are as follows:
Nickel (N) : SAEAMSQQN290.
Gold (G) : ISO 27874

Electrical

Model	series	Types	Test voltage (KV rms) Contact- contact	Test voltage (KV rms) contact-shell	Rated current (A)
GB-ZPG GB-ZXG	0B	302	1.45	1.20	4.5
GB-ZPG GB-ZXG	0B	303	1.7	1.60	4.5
GB-ZPG GB-ZXG	0B	304	1.30	1.10	4.5
GB-ZPG GB-ZXG	0B	305	1.25	1.20	4.5
GB-ZPG GB-ZXG	0B	306	1.25	1.20	2.5
GB-ZPG GB-ZXG	0B	307	1.00	1.00	2.0
GB-ZPG GB-ZXG	0B	309	0.60	0.50	1.5
GB-ZPG GB-ZXG	1B	302	1.70	1.45	4.5
GB-ZPG GB-ZXG	1B	303	1.60	1.85	4.5
GB-ZPG GB-ZXG	1B	304	1.70	1.80	4.5
GB-ZPG GB-ZXG	1B	305	1.30	1.55	4.5
GB-ZPG GB-ZXG	1B	306	1.35	1.45	2.0
GB-ZPG GB-ZXG	1B	307	1.45	1.45	2.0
GB-ZPG GB-ZXG	1B	308	1.30	1.30	2.0
GB-ZPG GB-ZXG	1B	310	1.00	1.00	1.5



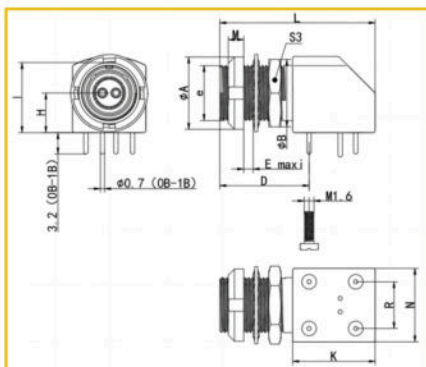
GB-ZPG - Elbow 90° socket for printed circuit, key (G) or keys (A...) (solder or screw fixing)



Part Numbers	Dimensions (mm)							
	A	D	H	I	K	L	N	R
GB-ZPG.0B.302.CPNR	9.0	14.6	6.7	12.6	13.3	25	11.7	7.62
GB-ZPG.0B.303.CPNR								
GB-ZPG.0B.304.CPNR								
GB-ZPG.0B.305.CPNR								
GB-ZPG.0B.306.CPNR								
GB-ZPG.0B.307.CPNR	11.0	16.6	7.5	14.0	13.3	27	12.6	7.62
GB-ZPG.0B.309.CPNR								
GB-ZPG.1B.302.CPNR								
GB-ZPG.1B.303.CPNR								
GB-ZPG.1B.304.CPNR								
GB-ZPG.1B.305.CPNR								
GB-ZPG.1B.306.CPNR								
GB-ZPG.1B.307.CPNR								
GB-ZPG.1B.308.CPNR								
GB-ZPG.1B.310.CPNR								

Note: in the 0B and 1B series, if replace the 4 ground pins by 4 screws (M1.6), need to add an "S" to the end of the part number.

GB-ZXG - Elbow socket with two nuts for printed circuit, key (G) or keys (A...) (solder or screw fixing) (back panel mounting)

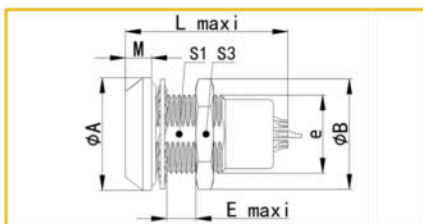


Part Numbers	Dimensions (mm)												
	A	B	D	e	E	H	I	K	L	M	N	R	S3
GB-ZXG.0B.302.CPNR	12	12.4	14.6	M9*0.6	4.5	6.7	12.6	13.3	25	2.5	11.7	7.62	11
GB-ZXG.0B.303.CPNR													
GB-ZXG.0B.304.CPNR													
GB-ZXG.0B.305.CPNR													
GB-ZXG.0B.306.CPNR													
GB-ZXG.0B.307.CPNR	14	15.0	16.6	M11*0.5	7.5	7.5	14.0	13.3	27	3.5	12.6	7.62	13
GB-ZXG.0B.309.CPNR													
GB-ZXG.1B.302.CPNR													
GB-ZXG.1B.303.CPNR													
GB-ZXG.1B.304.CPNR													
GB-ZXG.1B.305.CPNR													
GB-ZXG.1B.306.CPNR													
GB-ZXG.1B.307.CPNR													
GB-ZXG.1B.308.CPNR													
GB-ZXG.1B.310.CPNR													

NOTE: in the 0B and 1B series, if replace the 4 ground pins by 4 screws (M1.6), need to add an "S" to the end of the part number.

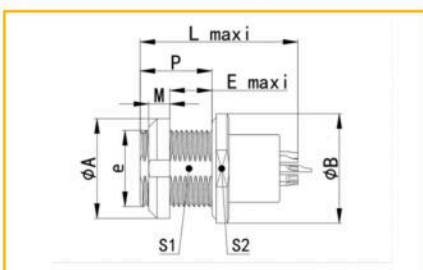
Watertight or vacuumtight models

GB-MGG - fixed socket, nut fixing, key (G) or keys (A...), watertight or vacuumtight.



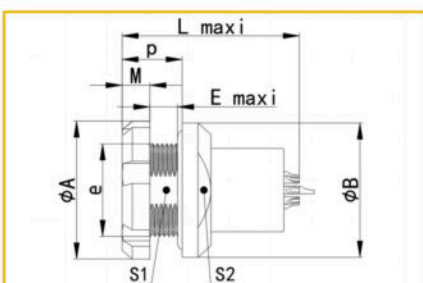
series	A	B	e	E	L	M	S1	S3
0B	13	12.4	M9*0.6	7	21.5	3	10.5	14
1B	18	15.8	M12*1	7	26.6	4.5	13.5	17
2B	20	19.2	M15*1	8	31.6	4	16.5	22

GB-MEG - fixed socket, nut fixing, key (G) or keys (A...), watertight or vacuumtight.(back panel mounting)



series	A	B	e	E	L	M	P	S1	S3
0B	12	13	M9*0.6	5.5	21.5	2.5	9	10.5	-
1B	16	18	M12*1	6.5	26.6	3.5	11	13.5	-
2B	20	20	M15*1	5	31.6	3.5	9.6	16.5	15

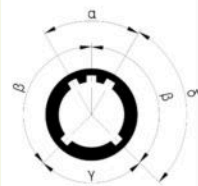
GB-G8 - fixed socket, nut fixing, key (G) or keys (A...), watertight or vacuumtight.(back panel mounting)



series	A	B	e	E	≈ L	M	P	S1	S3
0B	15	14.5	M10*0.5	3	18.7	3	6.5	9	12

Alignment key and polarized keying system

K series connector model part numbers include three letters. The last letter indicates the key position and the contact type (male or female)



Ref.	No. of keys	angles	series			Ref.	No. of keys	angles	series				Contact type		note
			00	0B	1B				2B	3B	4B	5B	plug	socket	
G	1	-	0°	0°	0°	G	1	-	0°	0°	0°	0°	male	female	●
A	2	α	30°	30°	30°	A	2	α	30°	30°	30°	30°	male	female	●
B	2	α	60°	60°	60°	B	2	α	45°	45°	45°	45°	male	female	●
C	2	α	-	90°	90°	C	2	α	60°	60°	60°	60°	male	female	●
D	2	β	-	135°	135°	D	2	γ	95°	95°	95°	95°	male	female	○
E	2	β	-	145°	145°	E	2	β	120°	120°	120°	120°	male	female	○
F	2	β	-	155°	155°	F	2	β	145°	145°	145°	145°	male	female	○
J	2	γ	45°	45°	45°	J	2	α	37.5°	37.5°	37.5°	37.5°	female	male	●
K	2	γ	-	70°	70°	K	2	α	52.5°	52.5°	52.5°	52.5°	female	male	○
L	2	γ	-	80°	80°	L	2	γ	70°	70°	70°	70°	female	male	○
M	2	δ	-	110°	-	M	2	-	-	-	-	-	female	male	○
Y	3	-	-	-	-	Y	3	β	112.5°	126°	112.5°	-	male	female	● ¹
	3	-	-	-	-		3	γ	100°	102°	147.5°	-	male	female	● ¹



Ref.	No. of keys	angles	series			Ref.	No. of keys	angles	series				Contact type		note
			00	0B	1B				2B	3B	4B	5B	plug	socket	
R	5	α	-	-	-	R	5	α	-	-	-	95°	male	female	●
	5	β	-	-	-		5	β	-	-	-	115°	male	female	●
	5	γ	-	-	-		5	γ	-	-	-	20°	male	female	●
	5	δ	-	-	-		5	δ	-	-	-	30°	male	female	●

Note:

GB-TTG, GB-TGY, GB-ZNY models are not available with all the keys; please consult pages corresponding to these models.

1) only for GB-TGY and GB-ZNY.

● first choice alternative

○ special order alternative

K series connectors are specifically designed for outdoor applications

All models of this series are watertight when correctly assembled to an appropriate cable (at least IP66). K series connectors have the same insulators as the B series and have the following main features:

- ▲ security of the push pull self- latching system
- ▲ rugged housing for extreme working conditions
- ▲ 360 degree screening for full EMC shielding
- ▲ keying system
- ▲ multipole types 2 to 40 contacts
- ▲ watertight connection (IP66/IP67) ;
- ▲ solder, print(straight or elbow) contacts
- ▲ multiple key options to avoid cross mating of similar connectors.
- ▲ high packing density for space saving.



Technical Characteristics

Mechanical and Climatical:

- ▲ Endurance: >5000 cycles;
- ▲ Humidity: up to 95% at 60°C
- ▲ Temperature range: when filled with silicone, -55°C ~ +200°C, filled with resin, -55°C ~ +125°C, without any glue or resin (PPS insulator) -55°C ~ +200°C;
- ▲ resistance to vibrations: 10-2000Hz, 15g;
- ▲ shock resistance: 100g, 6ms;
- ▲ salt spray corrosion test: >96h;
- ▲ IP rating: IP67;

Part Numbering System

Plug / Free socket

GB- B TG G 0K 3 03 C P A R C 32 Z

Outer shell pattern: 1

variant: 13

Cable collet size: 12

Collet type: 11

Fixed socket

GB- ZG G 0K 3 03 C P A R

Model: 2

Alignment key: 3

series: 4

Insert configuration: 5

No. of contacts: 6

housing: 7

Dot color: 10

Contact type: 9

insulator: 8

Note:

- 1 outer shell pattern: stripe pattern (B)
- 2 Model: GB-TGG, GB-TNG.....
- 3 Alignment key: G、A、B、C、D、E、F、J、K、L
- 4 series: 0K、1K.....
- 5 Contact type: Pneumatic contact in the middle (1)、Pneumatic contact at side (2)、Standard contacts regular distribution (3)、multipole irregular distribution (4)、High Voltage (6)、Coaxial (8)
- 6 Number of contacts: 3 contacts (03)、4 contacts (04)
- 7 Housing: brass, chrome plating (C)、brass, black chrome plating (S)、brass, nickel plating (N)、brass, gold plating (G)
- 8 Insulator: PPS material (P)、PEEK material (L)、Teflon material (T)
- 9 Contact: solder type female contact (L)、solder type male contact (A)、print type female contact (N)、print type male contact (D)、90° elbow print type contact (V)
- 10 Dot color: red color (R)、white color (B)
- 11 Collet type: standard type (D)、oversized type (M)
- 12 Collet size: 3.2mm (32)、4.2mm (42)10.2mm (102)
- 13 Variant: nut for fitting a bend relief (Z)

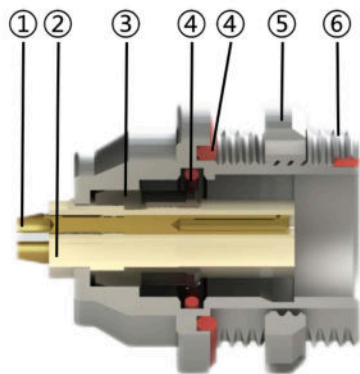
Example:

Straight Plug: GB-BTGG.0K.303.CPARD32=stripe pattern (B), model (FG), alignment key 0° (G), 0K series (0K), 3 contacts (303)、chrome plated brass outer shell (C)、PPS insulator (P)、solder type male contact (A)、red dot (R)、standard type collet (D)、3.2mm (32)、standard back nut

Free Socket: GB-BDHG.0K.303.CPLRD32Z= stripe pattern (B), model (DH), alignment key 0° (G), 0K series (0K), 3 contact(303)、chrome plated brass outer shell (C)、PPS insulator (P)、solder type female contact (L)、red dot (R)、standard type collet (D)、3.2mm (32). Variant (Z) nut for fitting a bend relief.

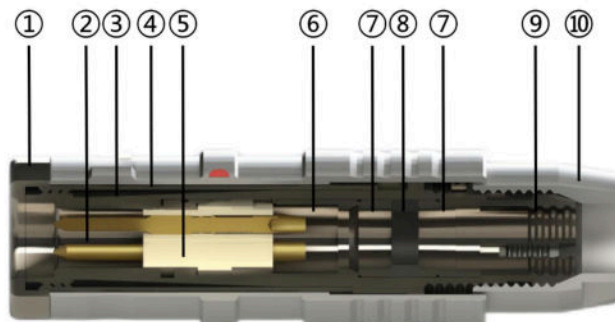
Fixed Socket: GB-ZGG.0K.303.CPLR=Model (EG), alignment key 0° (G), 0K series (0K), 3 contacts (303)、chrome plated brass outer shell (C)、PPS insulator (P)、solder type female contact (L)、red dot (R)

Part section showing internal components



Fixed socket

- 1: female contact
- 2: insulator
- 3: retaining ring
- 4: O ring
- 5: hexagonal nut
- 6: outer shell



Straight plug

- 1: outer shell
- 2: male contact
- 3: inner shell
- 4: latch sleeve
- 5: insulator
- 6: insulator carrier
- 7: earthing cone
- 8: gasket
- 9: collet
- 10: back nut

Metal housing models

Straight plugs



GB-TGG



GB-TGG



GB-TGG

Fixed sockets



GB-ZEG



GB-ZEG



GB-ZEG

Free sockets



GB-DHG

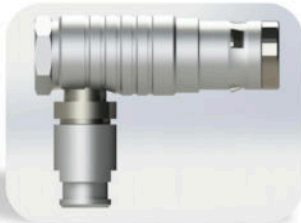


GB-DHG

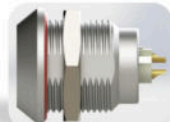


GB-DHG

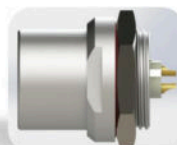
Elbow plugs



GB-THG



GB-ZGG



GB-ZHG

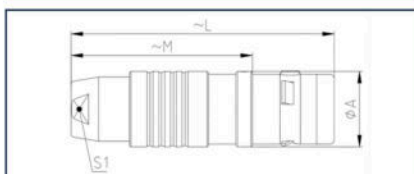
Watertight or vacuumtight model Fixed socket



GB-MGG

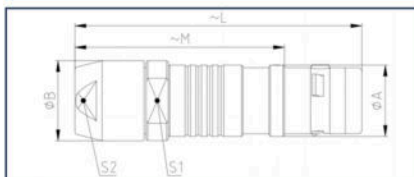
Metal Housing Models

GB-TGG - straight plug, key (G) or keys (A...), cable collet



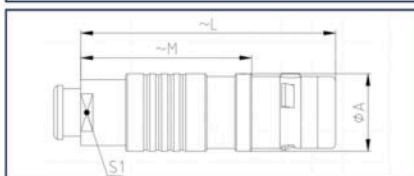
series	L	M	φA	S1				
0K	≈ 34	≈ 23	11	7				
1K	≈ 42	≈ 28	13	9				
2K	≈ 52	≈ 36	16	12				
3K	≈ 61	≈ 41	19	15				

GB-TGG - straight plug, key (G) or keys (A...), cable collet and oversize cable collet



series	L	M	φA	φB	S1	S2			
1K	≈ 60	≈ 46	13	14.5	12	12			
2K	≈ 68	≈ 52	16	17	15	15			

GB-TGG - straight plug, key (G) or keys (A...), cable collet and nut for fitting a bend relief



series	L	M	φA	S1					
0K	≈ 34	≈ 23	11	7					
1K	≈ 42	≈ 28	13	9					
2K	≈ 52	≈ 36	16	12					
3K	≈ 60	≈ 40	19	15					

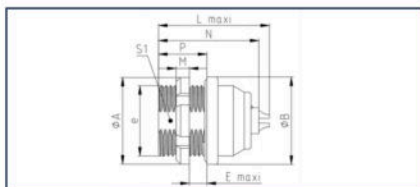
Note: the bend relief must be ordered separately.

GB-THG - Elbow (90°) plug, key (G) or keys (A...), cable collet and nut for fitting a bend relief



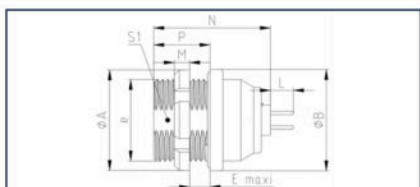
series	A	D	H	L	M	S1	S2	S3	
3K	21	11.5	47	≈ 60	≈ 40	18	15	15	
4K	27.5	15.5	57	≈ 72	≈ 51.5	24	19	20	

GB-ZEG - fixed socket, nut fixing, key (G) or keys (A...),(back panel mounting)



series	A	B	e	E	L	M	N	P	S1
0K	≈ 21.7	≈ 23	M14*1.0	3.4	21.7	3.5	20.1	7.0	12.5
1K	≈ 27	≈ 28	M16*1.0	6.2	27.0	3.5	25.1	10.0	14.5
2K	≈ 30.7	≈ 36	M20*1.0	5.0	30.7	3.5	28.6	10.0	18.5
3K	≈ 36.2	≈ 41	M24*1.0	7.5	36.2	4.5	33.6	12.0	22.5

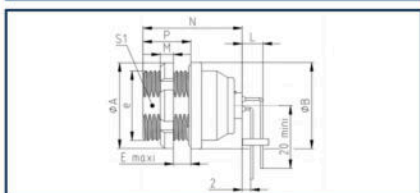
GB-ZEG - fixed socket, nut fixing, key (G) or keys (A...),straight print contacts for printed circuit (back panel mounting)



series	A	B	e	E	M	N	P	S1
0K	≈ 21.7	≈ 23	M14*1.0	3.4	3.5	20.1	7.0	12.5
1K	≈ 27	≈ 28	M16*1.0	6.2	3.5	25.1	10.0	14.5
2K	≈ 30.7	≈ 36	M20*1.0	5.0	3.5	28.6	10.0	18.5
3K	≈ 36.2	≈ 41	M24*1.0	7.5	4.5	33.6	12.0	22.5

Note: this contact type is available for E** socket models fitted with female contact. The length "L" depends on the number of contacts, see table page 87.

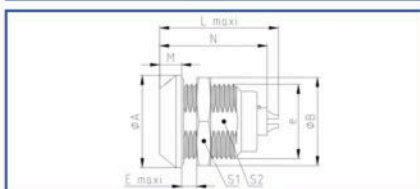
GB-ZEG - fixed socket, nut fixing, key (G) or keys (A...),elbow print contacts for printed circuit (back panel mounting)



series	A	B	e	E	M	N	P	S1
0K	18	18	M14*1.0	3.4	3.5	19.3	7.0	12.5
1K	20	20	M16*1.0	6.2	3.5	24.3	10.0	14.5
2K	25	25	M20*1.0	5.0	3.5	26.6	10.0	18.5
3K	30	31	M24*1.0	7.5	4.5	31.3	12.0	22.5

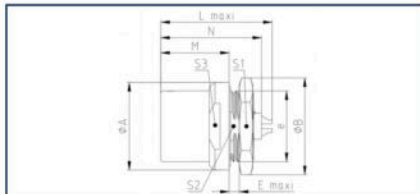
Note: The length "L" depends on the number of contacts, see PCB drilling pattern page 90.

GB-ZGG - fixed socket, nut fixing, key (G) or keys (A...)



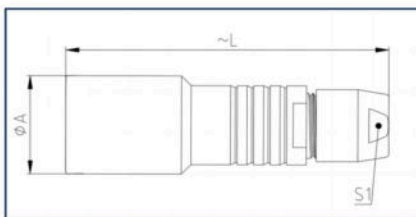
series	A	B	e	E	L	M	N	S1	S3
0K	18	19.2	M14*1.0	6	21.7	4.0	20.1	12.5	17
1K	20	21.5	M16*1.0	9	27.0	4.5	25.1	14.5	19
2K	25	27	M20*1.0	9	30.7	5.0	28.6	18.5	24
3K	30	34	M24*1.0	11	36.2	6.0	33.6	22.5	30
4K	37	40.5	M30*1.0	9	40.2	6.5	38.6	28.5	36

GB-ZHG - fixed socket, nut fixing, key (G) or keys (A...), protruding shell



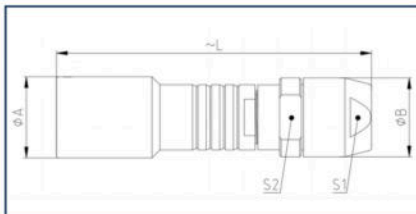
series	A	B	e	E	L	M	N	S1	S2	S3
0K	18	19.2	M14*1.0	1.5	21.7	10.5	20.1	15	12.5	17
1K	20	21.5	M16*1.0	1.5	27.0	15.5	25.1	17	14.5	19
2K	25	27.0	M20*1.0	1.5	30.7	17.0	27.1	20	18.5	24

GB-DHG - free socket, key (G) or keys (A...), cable collet



series	A	L	S1
0K	13	34	8
1K	15	45	9
2K	19	54	12
3K	23	65	15

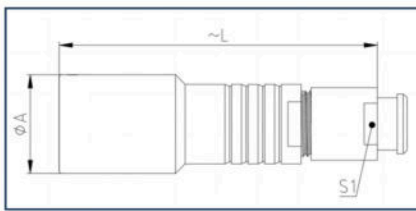
GB-DHG - free socket, key (G) or keys (A...), cable collet and oversize cable collet



series	A	B	L	S1	S2
1K	15	14.5	63	12	12
2K	19	17.0	70	15	15
3K	23	22.0	65	19	19

Note: corresponding to K type of collet, with oversize collet, it allows them to be fitted to the cables that can be accommodated by the next housing size up.

GB-DHG - free socket, key (G) or keys (A...), cable collet and nut for fitting a bend relief

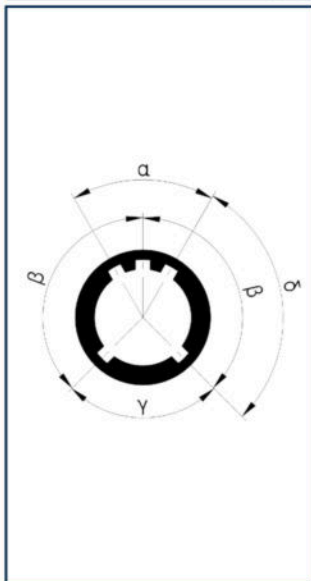


series	A	L	S1
0K	13	34.0	7
1K	15	45.0	9
2K	19	54.0	12
3K	23	64.0	15

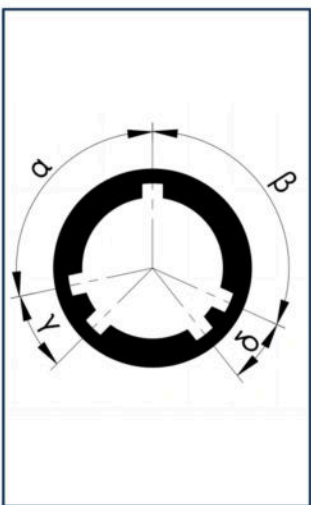
Note: the bend relief must be ordered separately.

Alignment Key (K series)

K series connector model part numbers include three letters. The last letter indicates the key position and the contact type (male or female)



Ref.	No. of keys	angles	series				Contact type		note
			0K	1K	2K	3K	plug	socket	
G	1	-	0°	0°	0°	0°	male	female	●
A	2	α	30°	30°	30°	30°	male	female	●
B	2	α	45°	45°	45°	45°	male	female	●
C	2	α	60°	60°	60°	60°	male	female	●
D	2	γ	95°	95°	95°	95°	male	female	○
E	2	β	120°	120°	120°	120°	male	female	○
F	2	β	145°	145°	145°	145°	male	female	○
J	2	γ	75°	75°	75°	75°	female	male	●



Ref.	No. of keys	angles	series			3K	Contact type		Note
			0K	1K	2K		plug	socket	
			R	5	α	-	-	-	
5	β	-		-	-	115°	male	female	●
5	γ	-		-	-	35°	male	female	●
5	δ	-		-	-	25°	male	female	●

Note: please consult the pages corresponding to these models

- First choice alternative
- Special order alternative

T series connectors are specifically designed for outdoor applications

All models of this series are watertight when correctly assembled to an appropriate cable (at least IP66). K series connectors have the same insulators as the B series and have the following main features:

- ▲ security of the push pull self- latching system
- ▲ rugged housing for extreme working conditions
- ▲ 360 degree screening for full EMC shielding
- ▲ keying system
- ▲ multipole types 2 to 40 contacts
- ▲ watertight connection (IP66/IP68)
- ▲ solder, print(straight or elbow) contacts
- ▲ multiple key options to avoid cross mating of similar connectors.
- ▲ high packing density for space saving.



Technical Characteristics

Mechanical and Climatical:

- ▲ Endurance : >3000 cycles;
- ▲ Humidity: up to 95% at 60°C ;
- ▲ Temperature range: when filled with silicone, -55°C ~ +200°C, filled with resin, -55°C ~ +125°C, without any glue or resin (PPS insulator) -55°C ~ +200°C;
- ▲ resistance to vibrations : 10-2000Hz, 15g;
- ▲ shock resistance : 100g, 6ms;
- ▲ salt spray corrosion test : >96h;
- ▲ IP rating : IP68;

Part Numbering System

Plug / Free socket

GB- B TG G 0T 3 03 C P A R C 32 Z

Free socket: GB-BD HG

Outer shell
pattern : 1

variant: 13

Cable collet
size : 12

Collet type :
11

Fixed socket

GB- ZG G 0T 3 03 C P A R

Model : 2

Alignment key : 3

series: 4

Insert
configuration : 5

No. of contacts : 6

housing : 7

Dot color : 10

Contact type : 9

insulator : 8

Note:

1. outer shell pattern: stripe pattern (B) 、 scale pattern (I)
2. model: GB-TGG.....
3. Alignment key: G、 A、 B、 C、 D、 E、 F、 J、 K、 L
4. series : 0T、 1T.....
5. Contact type: Pneumatic contact in the middle (1) 、 Pneumatic contact at side (2) 、 Standard contacts regular distribution (3) 、 multipole irregular distribution (4) 、 High Voltage (6) 、 Coaxial (8)
6. Number of contacts: 3 contacts (03) 、 4 contacts (04)
7. Housing: brass, chrome plating (C) 、 brass, black chrome plating (S) 、 brass, nickel plating (N) 、 brass, gold plating (G)
8. Insulator: PPS material (P) 、 PEEK material (L) 、 Teflon material (T)
9. Contact: solder type female contact (L) 、 solder type male contact (A) 、 print type female contact (N) 、 print type male contact (D) 、 90° elbow print type contact (V)
10. Dot color: red color (R) 、 white color (B)
11. Collet type: standard type (D) 、 oversized type (M)
12. Collet size: 3.2mm (32) 、 4.2mm (42)10.2mm (102)
13. Variant: nut for fitting a bend relief (Z)

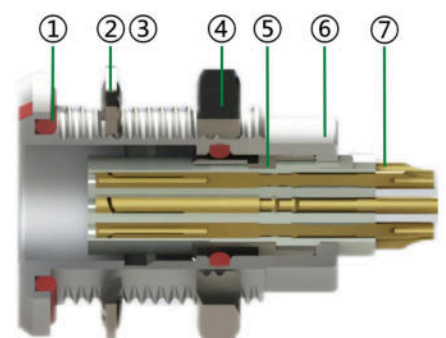
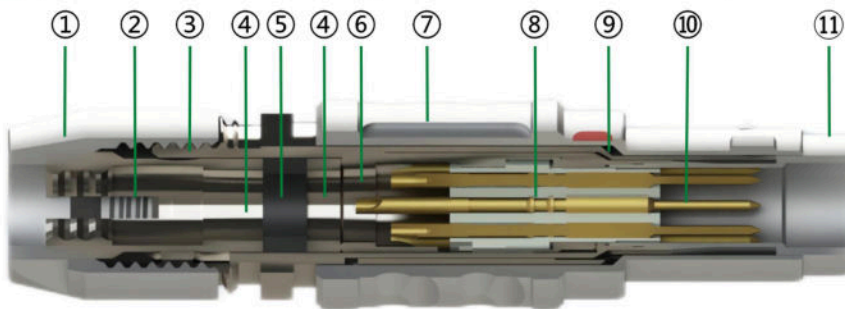
Example:

Straight Plug: GB-BTGG.0K.303.CPARD32=stripe pattern (B), model (FG), alignment key 0° (G), 0K series (0K), 3 contacts (303)、 chrome plated brass outer shell (C) , PPS insulator (P) , solder type male contact (A) , red dot (R) , standard type collet (D) , 3.2mm (32) , standard back nut

Free Socket: GB-BDHG.0K.303.CPLRD32Z= stripe pattern (B), model (DH), alignment key 0° (G), 0K series (0K), 3 contact(303)、 chrome plated brass outer shell (C) , PPS insulator (P) , solder type female contact (L) , red dot (R) , standard type collet (D) , 3.2mm (32) . Variant (Z) nut for fitting a bend relief

Fixed Socket: GB-ZGG.0K.303.CPLR=Model (EG), alignment key 0° (G), 0K series (0K), 3 contacts (303)、 chrome plated brass outer shell (C) , PPS insulator (P) , solder type female contact (L) , red dot (R)

Part section showing internal components



Straight plug

- 1: back nut
- 2: collet
- 3: inner shell
- 4: earthing cone
- 5: gasket
- 6: insulator carrier
- 7: outer shell
- 8: insulator
- 9: latch sleeve
- 10: back nut

Fixed socket

- 1: O ring
- 2: locking washer
- 3: insulator
- 4: hexagonal nut
- 5: earthing crown
- 6: outer shell
- 7: female contact

Metal housing models

Straight plug



GB-TGG



GB-TGG

Fixed socket



GB-ZGG



GB-ZEG

Free socket



GB-DHG



GB-DHG

Six petal pattern plug

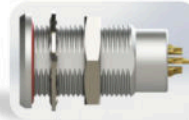


GB-TGG



GB-TGG

Watertight or vacuumtight models Fixed socket

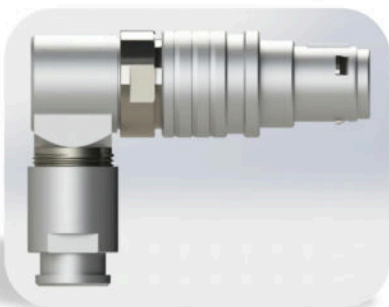


GB-MGG



GB-MEG

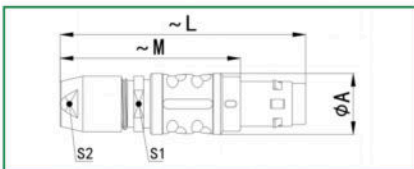
Elbow Plug



GB-TSG

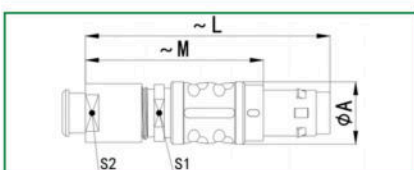
Metal housing models

GB-TGG - straight plug, cable collet



series	L	M	φA	S1	S2			
0T	≈ 39	≈ 29	9.5	7.5	7			
1T	≈ 46	≈ 35	12	11	9			
2T	≈ 55	≈ 43	15	14	12			

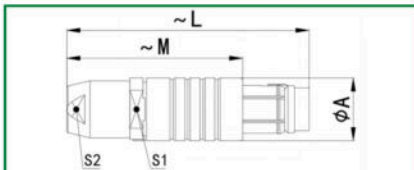
GB-TGG - straight plug, cable collet and nut for fitting a bend relief



series	L	M	φA	S1	S2			
0T	≈ 38	≈ 28	9.5	7.5	7			
1T	≈ 45	≈ 34	12	11	9			
2T	≈ 54	≈ 42	15	14	12			

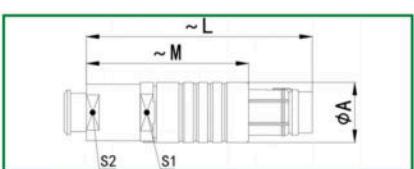
Note: bend relief must be ordered separately.

GB-TGG - straight plug, six petal pattern, cable collet



series	L	M	φA	S1	S2			
0T	≈ 38	≈ 28	9.5	7.5	7			
1T	≈ 45	≈ 34	12	11	9			
2T	≈ 54	≈ 42	15	14	12			

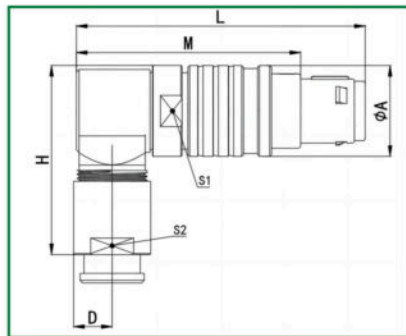
GB-TGG - straight plug, six petal pattern, cable collet and nut for fitting a bend relief



series	L	M	φA	S1	S2			
0T	≈ 37	≈ 27	9.5	7.5	7			
1T	≈ 44	≈ 33	12	11	9			
2T	≈ 53	≈ 41	15	14	12			

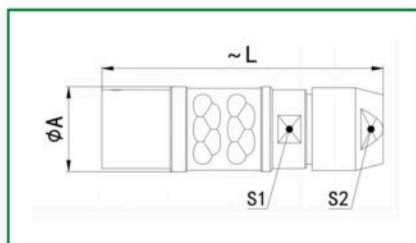
Note: bend relief must be ordered separately

GB-TSG - elbow plug, 18 in one adjustable, cable collet and nut for fitting a bend relief



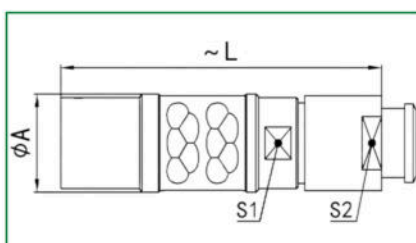
series	L	M	φA	H	D	S1	S2
2T	≈ 54	≈ 42	17.0	≈ 40	7.2	16	12

GB-DHG - free socket, cable collet



series	L	φA	S1	S2
2T	52	15	14	12
3T	61.5	18.8	16	14

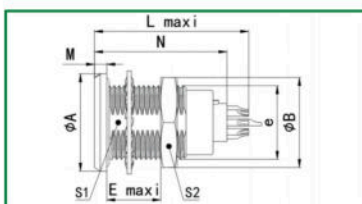
GB-DHG - free socket, cable collet and nut for fitting a bend relief



series	L	φA	S1	S2
2T	51	15	14	12
3T	60	18.8	16	14

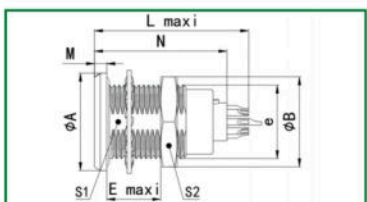
Note: bend relief must be ordered separately.

GB-ZGG - fixed socket, nut fixing



series	A	B	e	E	L	M	N	S1	S2
0T	12	12.5	M9*0.6	6.0	21	1.5	19.1	8.2	11
1T	15.5	16	M12*1.0	6.0	23	1.8	21.5	10.5	14
2T	18.5	19.6	M15*1.0	7.5	26.5	1.8	24.6	13.5	17
3T	23.5	25.1	M18*1.0	9.6	30.1	2.5	25.0	16.5	22

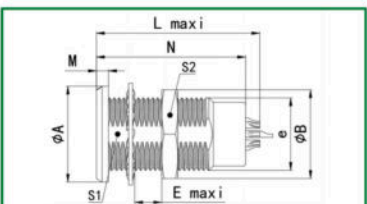
GB-ZEG - fixed socket, nut fixing, back panel mounting



series	A	B	e	E	L	N	P	S1
0T	12.0	12.0	M9*0.6	6.5	21.0	19.1	9.0	8.2
1T	15.5	16.0	M12*1.0	6.5	23.0	21.5	10.0	10.5
2T	18.5	20.0	M15*1.0	7.5	26.5	24.6	11.0	13.5
3T	23.5	24.0	M18*1.0	7.5	30.1	25.0	12.0	16.5

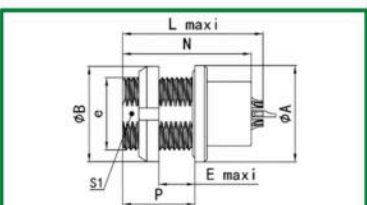
Watertight or vacuumtight models

GB-MGG - fixed socket, nut fixing, back panel mounting, watertight or vacuumtight



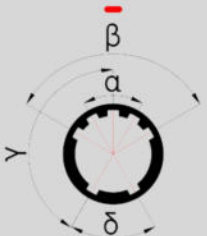
series	A	B	e	E	L	M	N	S1	S2
0T	12.0	12.5	M9*0.6	6.5	22.0	1.5	18.5	8.2	11
1T	15.5	16.0	M12*1.0	6.0	26.0	1.8	21.5	10.5	14.0
2T	18.5	19.6	M15*1.0	8.0	30.5	1.8	25.0	13.5	17.0

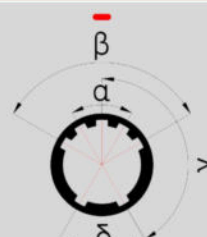
GB-MEG - fixed socket, nut fixing, back panel mounting, watertight or vacuumtight



series	A	B	e	E	L	N	P	S1
0T	12.0	12.0	M9*0.6	6.5	22.0	18.5	9	8.2
1T	15.5	16.0	M12*1.0	6.5	26.0	21.5	10.0	10.5
2T	18.5	20.0	M15*1.0	7.5	30.5	25.0	11.0	13.5

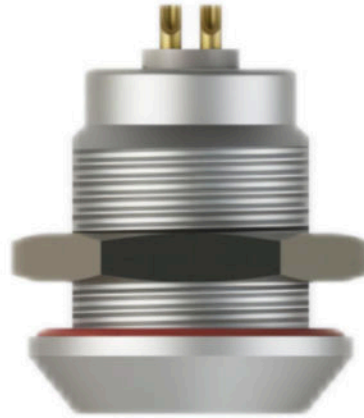
Alignment Key (T series)

Plug (front view)	Ref.	No. of keys	angles	series				Contact type		note
				0T	1T	2T	3T	plug	socket	
	G	1	-	0°	0°	0°	0°	male	female	●
	A	2	α	30°	30°	30°	30°	male	female	●
	D	2	γ	135°	135°	95°	95°	male	female	●
	L	2	δ	80°	80°	70°	70°	female	male	●
	J	2	β	45°	45°	135°	-	female	male	●

Socket (front view)	Ref.	No. of keys	angles	series				Contact type		note
				0T	1T	2T	3T	plug	socket	
	G	1	-	0°	0°	0°	0°	male	female	●
	A	2	α	30°	30°	30°	30°	male	female	●
	D	2	γ	135°	135°	95°	95°	male	female	●
	L	2	δ	80°	80°	70°	70°	female	male	●
	J	2	β	45°	45°	37.5°	-	female	male	●

- first choice alternative
- special order alternative

S、 E series connectors



S series



E series

S series connectors

S series connectors have the following main features

- ▲ security of the push pull self- latching system
- ▲ solder, print(straight or elbow) contacts
- ▲ unipole types transmitting current up to 230A, multipole types with up to 106 contacts
- ▲ polarization by stepped insert (half-moon) fitted with male and female contacts
- ▲ 360 degree screening for full EMC shielding

Technical Characteristics

Mechanical and Climatical :

- ▲ Endurance: >5000 cycles;
- ▲ Humidity: up to 95% at 60°C;
- ▲ Temperature range: when filled with resin, -55°C ~ +200°C
- ▲ resistance to vibrations : 10-2000Hz, 15g;
- ▲ shock resistance: 100g, 6ms;
- ▲ salt spray corrosion test: >96h;
- ▲ IP rating: IP50;



Part Numbering System

Plug / Free socket

GB- B TFA .0S.3 03.C P L C 32 Z

variant: 11

Outer shell
pattern : 1

Cable collet
size : 10

Collet type:
9

Fixed socket

GB- ZRA .0S.3 03.C P A

model: 2

Contact type: 8

series: 3

insulator: 7

Insert
configuration : 4

housing: 6

No. of
contacts : 5

Note:

- 1 Outer shell pattern: scale pattern (I)
- 2 Model: GB-TFA, GB-TAA.....
- 3 series: 0S、1S.....
- 4 Contact type: Pneumatic contact in the middle (1)、Pneumatic contact at side (2)、Standard contacts regular distribution (3)、multipole irregular distribution (4)、High Voltage (6)、Coaxial (8)
- 5 Number of contacts: 3 contacts (03)、4 contacts (04)
- 6 Housing: brass, chrome plating (C)、brass, black chrome plating (S)、brass, nickel plating (N)、brass, gold plating (G)
- 7 Insulator: PPS material (P)、PEEK material (L)、Teflon material (T)
- 8 Contact: solder type female contact (L)、solder type male contact (A)、print type female contact (N)、print type male contact (D)、90° elbow print type contact (V)
- 9 Collet type: standard type (D)、oversized type (M)
- 10 Collet size: 3.2mm (32)、4.2mm (42)10.2mm (102)
- 11 Variant: nut for fitting a bend relief (Z)

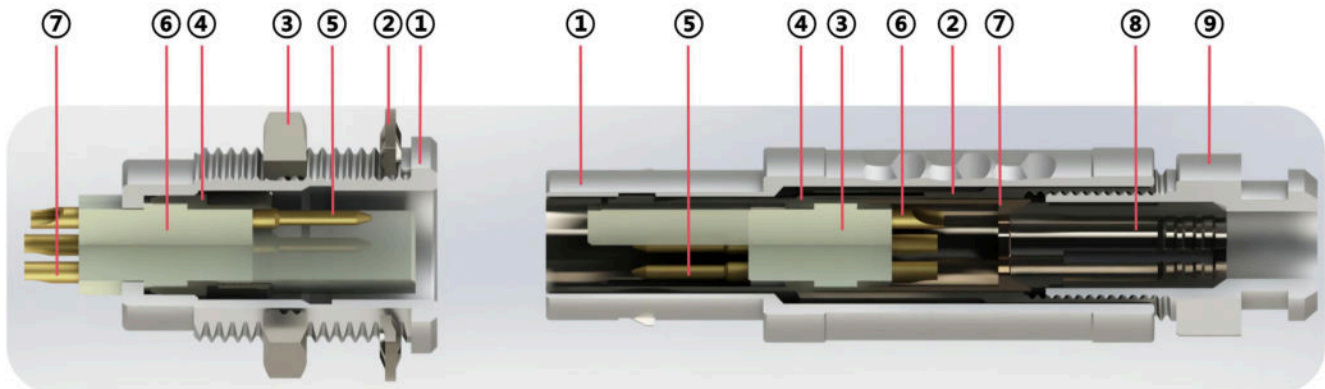
Example:

Straight plug: GB-ITFA.0S.303.CPAC32Z= scale pattern (1), model (GB-TFA), 0S series (0S), 3 contacts (303)、chrome plated brass outer shell (C)、PPS insulator (P)、solder type male contact (A)、C type collet (C)、3.2mm collet (32)、Variant (Z) nut for fitting a bend relief.

Free socket: GB-IDCA.0S.303.CPLC32Z= scale pattern (1), model (GB-DCA), 0S series (0S), 3 contacts (303)、chrome plated brass outer shell (C)、PPS insulator (P)、solder type female contact (L)、C type collet (C)、3.2mm collet (32)、Variant (Z) nut for fitting a bend relief

Fixed socket: GB-ZRA.0S.303.CPL=model (GB-ZRA), 0S series (0S), 3 contact (303), chrome plated brass outer shell (C)、PPS insulator (P)、solder type female contact (L)

Part Section Showing Internal Components



Fixed Socket

- 1: outer shell
- 2: locking washer
- 3: hexagonal nut
- 4: retaining ring
- 5: male contact
- 6: insulator
- 7: female contact

Straight Plug

- 1: outer shell
- 2: latch sleeve
- 3: insulator
- 4: retaining ring
- 5: male contact
- 6: female contact
- 7: center-piece
- 8: cable collet
- 9: back nut

Metal Housing Models

Fixed plug



GB-TAA

Elbow plug



GB-TLA

Straight plug



GB-TFA / GB-TFP



GB-TFA / GB-TFP



GB-TFA



GB-TFF



GB-TFS

Fixed socket



GB-ZRA



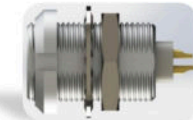
GB-ZRN



GB-ZRC



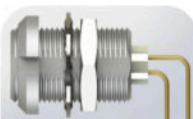
GB-ZHP



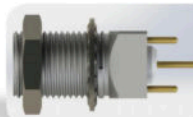
GB-ZCP



GB-ZCP

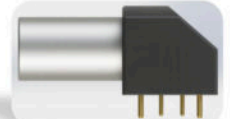


GB-ZCP

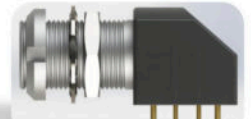


GB-ZPE

Elbow socket



GB-ZPL



GB-ZXP

Free socket



GB-DCA



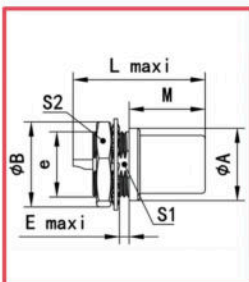
GB-DCA



GB-DCA

Metal Housing Models

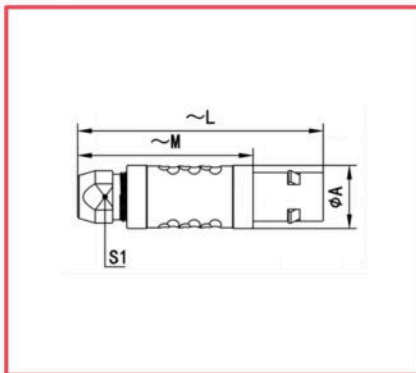
GB-TAA - fixed plug, non-latching, nut fixing



series	L	L ¹	M	φA	φB	e	E	S1	S2
00S	-	15.5	9.0	8.0	10.2	M7*0.5	2.0	6.3	9.0
0S	18.5	18.0	11.2	10.0	12.4	M9*0.6	2.0	8.2	11.0
1S	22.5	21.7	12.5	14.0	15.8	M12*1.0	2.5	10.5	14.0
2S	25.0	25.3	13.8	18.0	19.2	M15*1.0	4.0	13.5	17.0
3S	31.0	29.0	17.0	22.0	25.0	M18*1.0	4.0	16.5	22.0

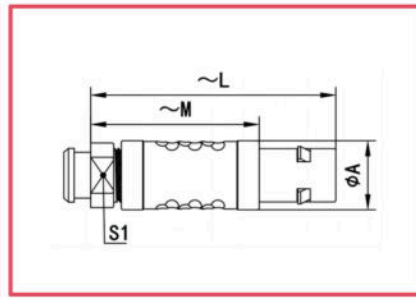
Note: L¹ Unipole model

GB-TFA - Straight plug, cable collet



series	L	M	φA	S1
00S	26.0	18.0	6.4	4.5
0S	34.5	24.5	9.0	6.5
1S	42.5	31.5	12.0	8.5
2S	52.0	40.0	14.8	11.0
3S	61.0	46.0	17.8	14.0

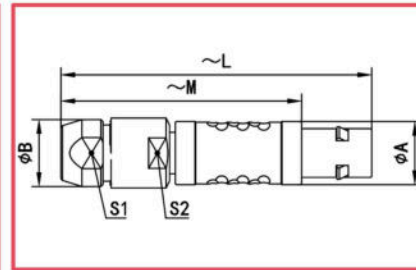
GB-TFA - Straight plug, cable collet and nut for fitting a bend relief



series	L	M	φA	S1
00S	26.0	18.0	6.4	6.0
0S	34.5	24.5	9.0	7.0
1S	42.5	31.5	12.0	9.0
2S	52.0	40.0	14.8	12.0
3S	61.0	46.0	17.8	14.0

Note: bend relief must be ordered separately

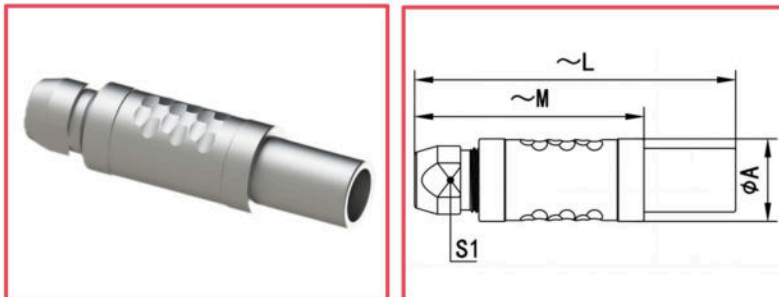
GB-TFA - Straight plug, oversize cable collet



series	L	M	φA	φB	S1	S2
00S	26.0	18.0	6.4	8.0	6.5	7.0
0S	34.5	24.5	9.0	10.0	8.5	9.0
1S	42.5	31.5	12.0	13.0	11.0	12.0
2S	52.0	40.0	14.8	18.0	14.0	14.0
3S	61.0	46.0	17.8	21.0	19.0	19.0

Note: corresponding to C type of collet, with oversize collet, it allows them to be fitted to the cables that can be accommodated by the next housing size up.

GB-TFF - straight plug, non-latching, cable collet



series	L	M	φA	S1
00S	26.0	18.0	6.4	4.5
0S	34.5	24.5	9.0	6.5
1S	42.5	31.5	12.0	8.5
2S	52.0	40.0	14.8	11.0

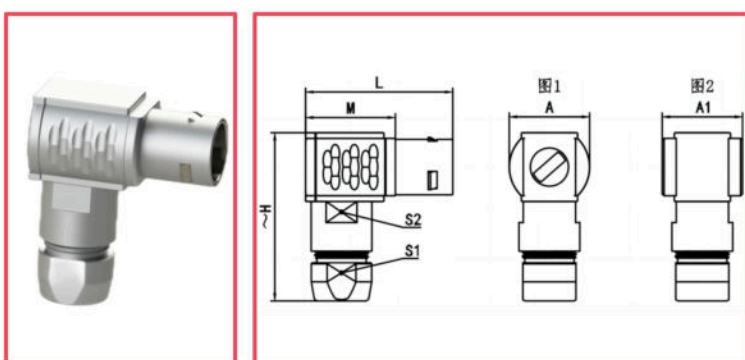
GB-TFS - straight plug for cable crimping



series	L	M	φA	S1	S2
00S	31	23	6.4	4.5	5.5
3S	68.0	53.0	17.8	14.0	14.0

Note: this model only with crimp back nut

GB-TLA - Elbow plug, cable collet



series	A	A1	H	L	M	S1	S2
0S	13.0	13.0	24.5	23.0	13.0	6.5	8.0
1S	16.0	16.0	28.5	26.5	15.5	8.5	10.0
2S	20.0	20.0	37.0	31.0	19.0	11.0	13.0
3S	21.0	21.0	44.0	38.5	23.5	14.0	15.0

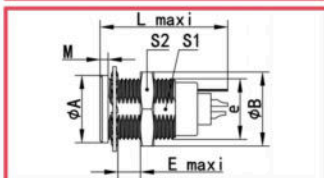
Note: pic.1 is used for unipole type,
pic.1 is used for multipole type.
Max. operating temperature: 120°C

GB-ZRA - fixed socket, nut fixing



series	A	B	e	E	L	L ¹	M	S1	S2
00S	8.0	10.2	M7*0.5	5.5	-	14.5	1.0	6.3	9.0
0S	10.0	12.4	M9*0.6	7.0	17.5	18.0	1.2	8.2	11.0
1S	14.0	15.8	M12*1.0	7.5	21.0	20.5	1.5	10.5	14.0
2S	18.0	19.2	M15*1.0	8.5	24.5	23.5	1.8	13.5	17.0
3S	22.0	25.0	M18*1.0	11.5	29.0	27.5	2.0	16.5	22.0

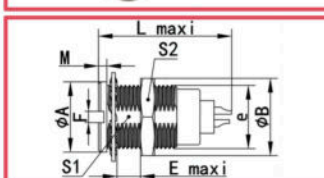
GB-ZRN - Fixed socket, nut fixing, with earthing tag



series	A	B	e	E	L	L ¹	M	S1	S2
0S	10.0	12.4	M9*0.6	7.0	19.3	19.3	1.2	8.2	11.0
1S	14.0	15.8	M12*1.0	7.5	22.4	22.4	1.5	10.5	14.0
2S	18.0	19.2	M15*1.0	8.5	26.3	26.3	1.8	13.5	17.0
3S	22.0	25.0	M18*1	11.5	29.8	29.8	2.0	16.5	22.0

Note: L¹ Unipole model

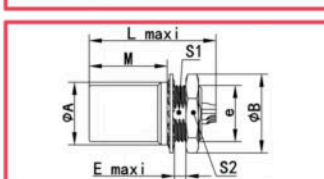
GB-ZRC - Fixed socket, nut fixing, with slot in the flange



series	A	B	e	E	F	L	L ¹	M	S1	S2
00S	8.0	10.2	M7*0.5	5.5	1.6	-	14.5	1.0	6.3	9.0
0S	10.0	12.4	M9*0.6	7.0	2.0	17.5	18.0	1.2	8.2	11.0
1S	14.0	15.8	M12*1.0	7.5	2.5	20.2	20.5	1.5	10.5	14.0

Note: L¹ Unipole model

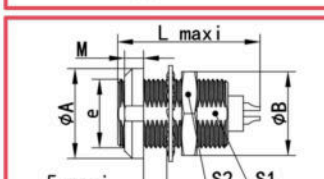
GB-ZHP - Fixed socket, nut fixing, protruding shell



series	A	B	e	E	L	L ¹	M	S1	S2
0S	10.0	12.4	M9*0.6	2.0	20.5	18.0	12.5	8.2	11.0
1S	14.0	15.8	M12*1.0	3.5	20.2	20.5	12.0	-	14.0
3S	22.0	25.0	M18*1.0	4.0	29.0	29.0	18.7	-	22.0

Note: L¹ Unipole model

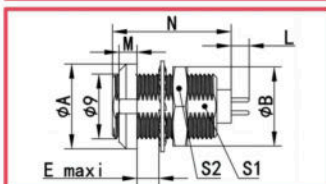
GB-ZCP - Fixed socket with two nuts, long threaded shell (back panel mounting)



series	A	B	e	E	L	L ¹	M	S1	S2
0S	12.0	12.4	M9*0.6	5.5	17.5	18.0	2.5	8.2	11.0
1S	16.0	15.8	M12*1.0	6.0	20.2	20.5	3.5	10.5	14.0
2S	20.0	19.2	M15*1.0	6.5	24.5	23.5	3.5	13.5	17.0
3S	24.0	25.0	M18*1.0	9.0	29.0	27.5	4.5	16.5	22.0

Note: L¹ Unipole model

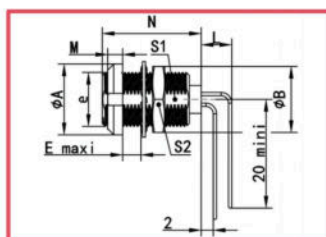
GB-ZCP - Fixed socket with two nuts, long threaded shell with straight contact for printed circuit (back panel mounting)



series	A	B	e	E	M	N	S1	S2
0S	12.0	12.4	M9*0.6	5.5	2.5	15.0	8.2	11.0
1S	16.0	15.8	M12*1.0	6.0	3.5	17.5	10.5	14.0
2S	20.0	19.2	M15*1.0	6.5	3.5	20.0	13.5	17.0
3S	24.0	25.0	M18*1.0	9.0	4.5	24.0	16.5	22.0

Note : this contact type is available for E** socket models fitted with female contact. The length "L" depends on the number of contacts

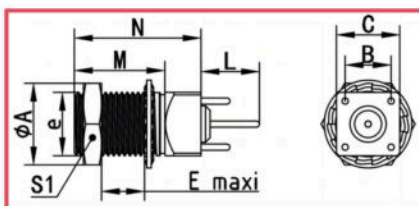
GB-ZCP - Fixed socket with two nuts, long threaded shell with elbow contact for printed circuit (back panel mounting)



series	A	B	e	E	M	N	S1	S2
0S	12.0	12.4	M9*0.6	5.5	2.5	15.0	8.2	11.0
1S	16.0	15.8	M12*1.0	6.0	3.5	17.5	10.5	14.0
2S	20.0	19.2	M15*1.0	6.5	3.5	20.0	13.5	17.0
3S	24.0	25.0	M18*1.0	9.0	4.5	24.0	16.5	22.0

Note : this contact type is available for E** socket models fitted with female contact. The length "L" depends on the number of contacts

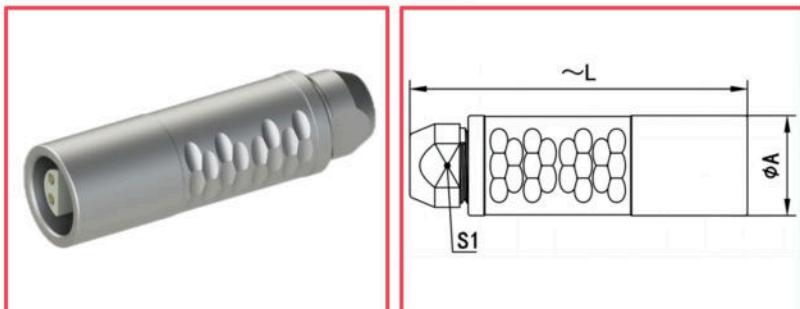
GB-ZPE - Fixed socket with two nuts, long threaded shell with straight contact for printed circuit (back panel mounting)



series	N	M	L	A	e	E	C	B	S1
00S	14	10	4.0	10.2	M7*0.5	7.0	7.0	5.0	9.0

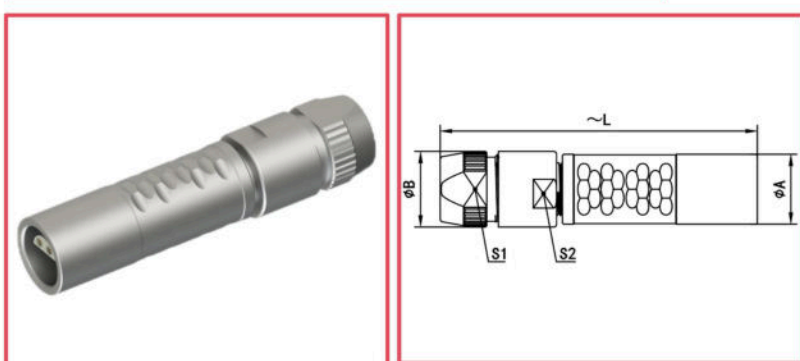
Note: The length "L" depends on the number of contacts, see page 93.

GB-DCA - free socket, cable collet



series	L	φA	S1
00S	25.0	6.5	4.5
0S	33.5	8.9	6.5
1S	40.5	11.9	8.5
2S	50.0	14.8	11.0
3S	59.0	17.8	14.0

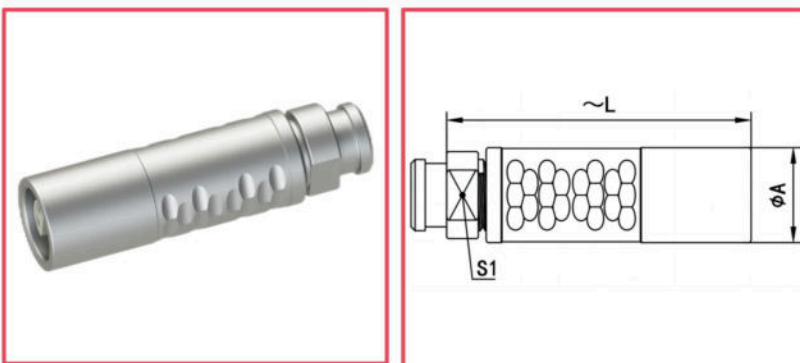
GB-DCA - free socket with oversize cable collet



series	φA	φB	L	S1	S2
00S	6.0	8.0	33.0	6.5	7.0
0S	8.9	10.0	44.5	8.5	9.0
1S	11.9	13.0	55.0	11.0	12.0
2S	14.8	18.0	65.0	14.0	14.0
3S	17.8	21.0	83.0	19.0	19.0

Note : corresponding to C type of collet, with oversize collet, it allows them to be fitted to the cables that can be accommodated by the next housing size up.

GB-DCA - free socket, cable collet and nut for fitting a bend relief



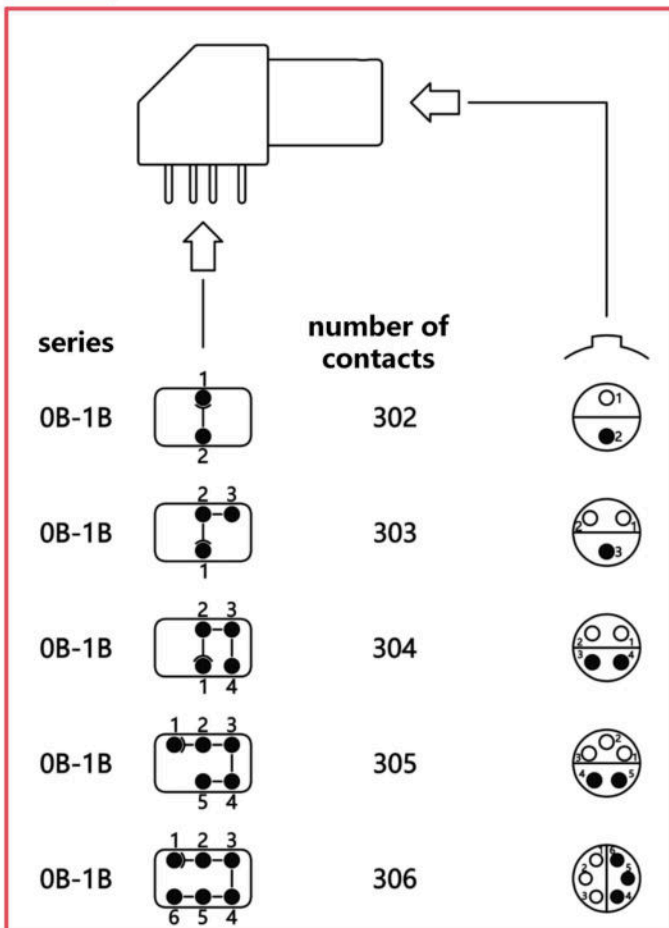
series	φA	L	S1
00S	6.5	25.0	6.0
0S	8.9	33.5	7.0
1S	11.9	40.5	9.0
2S	14.8	50.0	12.0
3S	17.8	59.0	14.0

Note: bend relief must be ordered separately.

Elbow socket models

Technical Characteristics

types



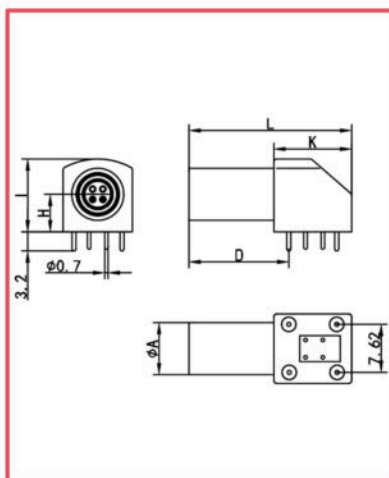
Materials and treatment

component	material	Surface treatment (pm)		
		Cu	Ni	Au
housing	PPS, brass	0.5	0.3	-
Metallic parts	brass	0.5	0.3	-
Earthing crown	brass	0.5	0.3	-
insulator	PPS	-		
Female contact	bronze	0.5	0.3	-

Electrical

model	series	types	Test voltage (V)	Rated current (A)
GB-ZPL	0S	302-303-304	1200	4.5
GB-ZXP	0S			
GB-ZPL	1S	302-303-304	1200	4.5
GB-ZXP	1S			
GB-ZPL	1S	305-306	700	4.5
GB-ZXP	1S			

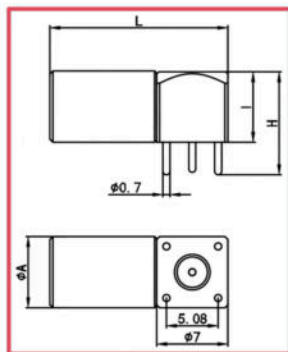
GB-ZPL - elbow socket for printed circuit (solder or screw fixing)



Part number	dimensions (mm)					
	A	D	H	I	K	L
GB-ZPL.0S.302	9	14.6	6.7	12.6	13.3	25
GB-ZPL.0S.303						
GB-ZPL.0S.304						
GB-ZPL.1S.302	11	16.6	7.5	14.0	13.3	27
GB-ZPL.1S.303						
GB-ZPL.1S.304						
GB-ZPL.1S.305						
GB-ZPL.1S.306						

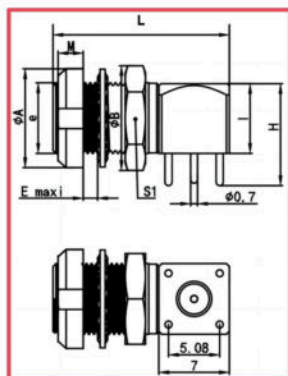
Note: to replace the 4 ground pins by 4 screws (M1.6), add a "S" to the end of the part number.

GB-ZPL - elbow socket for print circuit



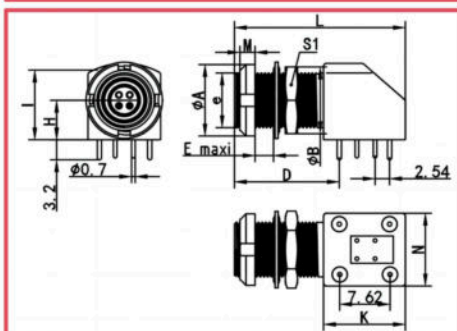
Part number	dimensions (mm)			
	A	H	I	L
GB-ZPL-00S	6.8	10	7	12

GB-ZXP - elbow socket for print circuit, with two nuts



Part number	dimensions (mm)								
	L	M	E	e	A	B	I	H	S1
GB-ZXP-00S	12.6	2.5	4.5	M7*0.5	10	10.2	7	10	9

GB-ZXP - elbow socket for printed circuit with two nuts (solder or screw fixing)



Part number	dimensions (mm)											
	A	B	D	e	E	H	I	K	L	M	N	S1
GB-ZPL.0S.302												
GB-ZPL.0S.303	12	12.4	14.6	M9*0.6	6.0	6.7	12.6	13.3	25	2.5	11.7	11
GB-ZPL.0S.304												
GB-ZPL.1S.302												
GB-ZPL.1S.303												
GB-ZPL.1S.304	14	15.0	16.6	M11*0.5	7.5	7.5	14.0	13.3	27	3.5	12.6	13
GB-ZPL.1S.305												
GB-ZPL.1S.306												

Note: to replace the 4 ground pins by 4 screws (M1.6), add a "S" to the end of the part number.

E Series connectors

Main Features :

- ▲ security of the push pull self-latching system –
- ▲ solder, print (straight or elbow) contacts
- ▲ Unipole types transmitting current up to 230A, mutipole types with up to 106 contacts
- ▲ polarization by stepped insert (half-moon) fitted with male and female contacts
- ▲ 360 degree screening for full EMC shielding.

Technical Characteristics

Mechanical and climatical:

- ▲ Endurance: >5000 cycles ;
- ▲ Humidity: up to 95% at 60°;
- ▲ Temperature range: when filled resin, -55°~+200
- ▲ Resistance to vibration : 10-2000Hz, 15g;
- ▲ Shock resistance : 100g, 6ms;
- ▲ Salt spray corrosion test : >96h;
- ▲ IP rating : IP68/IP66;



Part Numbering System

Plug / Free socket

GB- B TFA .1E.3 03.C P L C 32 Z

variant: 11

Outer shell
pattern : 1

Collet size: 10

Collet type : 9

Fixed socket

GB- ZRA .1E.3 03.C P A

Model: 2

Contact : 8

Series: 3

Insulator : 7

Insert
configuration: 4

Housing: 6

No. of contacts: 5

Note :

- 1 Outer shell pattern: stripe pattern (B)
- 2 Model: GB-TFA.....
- 3 Series: 1E.....
- 4 Contact type: Pneumatic contact in the middle (1) 、 Pneumatic contact at side (2) 、 Standard contacts regular distribution (3) 、 multipole irregular distribution (4) 、 High Voltage (6) 、 coaxial (8)
- 5 Number of contacts: 3 contacts (03) 、 4 contacts (04)
- 6 Housing: brass, chrome plating (C) 、 brass, black chrome plating (S) 、 brass, nickel plating (N) 、 brass, gold plating (G)
- 7 Insulator: PPS material (P) 、 PEEK material (L) 、 Teflon material (T)
- 8 Contact: solder type female contact (L) 、 solder type male contact (A) 、 print type female contact (N) 、 print type male contact (D) 、 90° elbow print type contact (V)
- 9 Collet type: standard type (C) 、 oversized type (M)
- 10 Collet size: 3.2mm (32) 、 4.2mm (42)10.2mm (102)
- 11 Variant: nut for fitting a bend relief (Z)

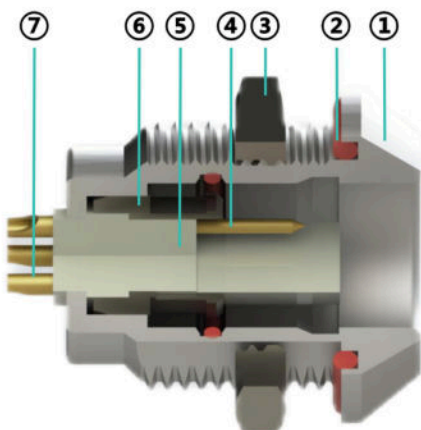
Example :

Straight plug: GB-ITFA.1E.303.CPAC32Z= scale pattern (1), model (GB-TFA), 1E series (1E), 3 contacts (303), chrome plated brass outer shell (C) , PPS insulator (P) , solder type male contact (A) , C type collet (C) , 3.2mm collet (32) , Variant (Z) nut for fitting a bend relief.

Free socket: GB-IDCA.1E.303.CPLC32Z= scale pattern (1), model (GB-DCA), 1E series (1E), 3 contacts (303), chrome plated brass outer shell (C) , PPS insulator (P) , solder type female contact (L) , C type collet (C) , 3.2mm collet (32) , Variant (Z) nut for fitting a bend relief

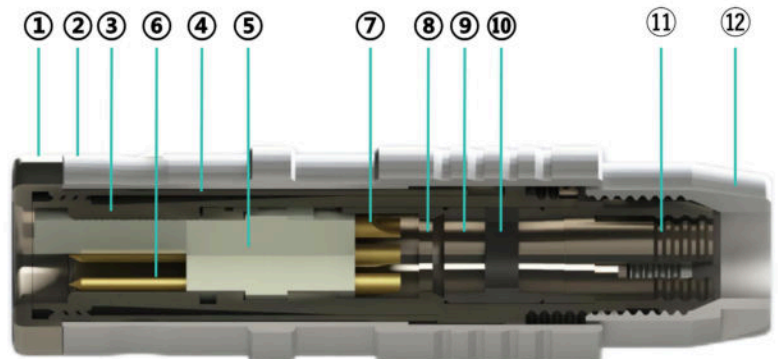
Fixed socket: GB-ZRA.1E.303.CPL=model (GB-ZRA), 1E series (1E), 3 contact (303), chrome plated brass outer shell (C) , PPS insulator (P) , solder type female contact (L)

Part Section Showing Internal Components



Fixed Socket

- 1: Outer shell
- 2: O ring
- 3: hexagonal nut
- 4: male contact
- 5: insulator
- 6: retaining ring
- 7: female contact



Straight Plug

- 1: retaining ring
- 2: outer shell
- 3: inner shell
- 4: latch sleeve
- 5: insulator
- 6: male contact
- 7: female contact
- 8: insulator carrier
- 9: earthing cone
- 10: gasket
- 11: cable collet
- 12: back nut

Metal Housing Models

Straight plug



GB-TFA / GB-TFP

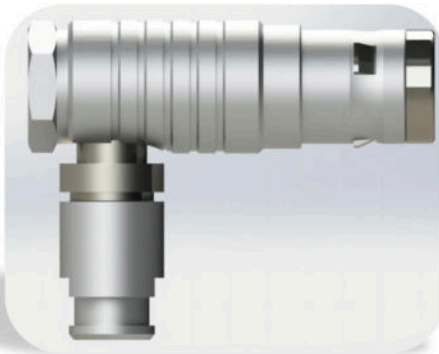


GB-TFA



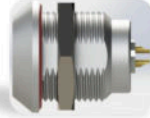
GB-TFA

Elbow plug



GB-TLA

Fixed socket



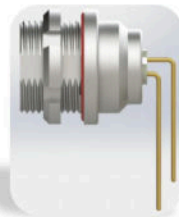
GB-ZRA



GB-ZEP



GB-ZEP



GB-ZEP



GB-ZHP

Free socket



GB-DCA



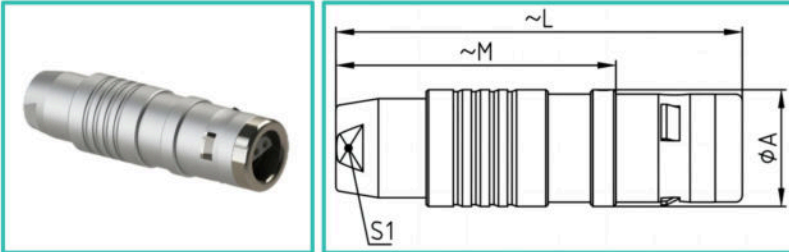
GB-DCA



GB-DCA

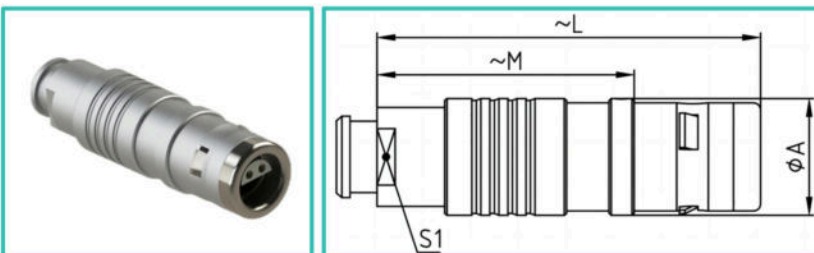
Metal housing models

GB-TFA - straight plug, cable collet



series	A	L	M	S1
0E	11.0	34.0	23.0	8.0
1E	13.0	42.0	28.0	9.0
2E	16.0	52.0	36.0	12.0
3E	19.0	61.0	41.0	15.0

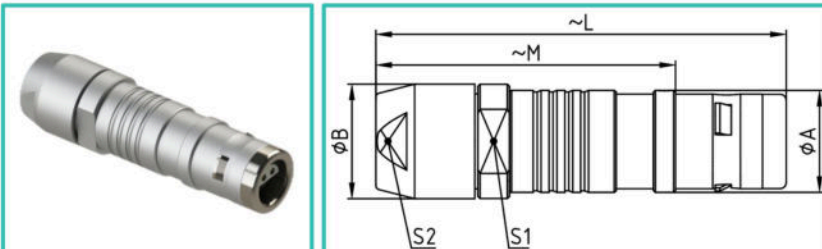
GB-TFA - straight plug, cable collet and nut for fitting a bend relief



series	A	L	M	S1
0E	11.0	34.0	23.0	7.0
1E	13.0	42.0	28.0	9.0
2E	16.0	52.0	36.0	12.0
3E	19.0	60.0	40.0	15.0

Note: bend relief must be ordered separately.

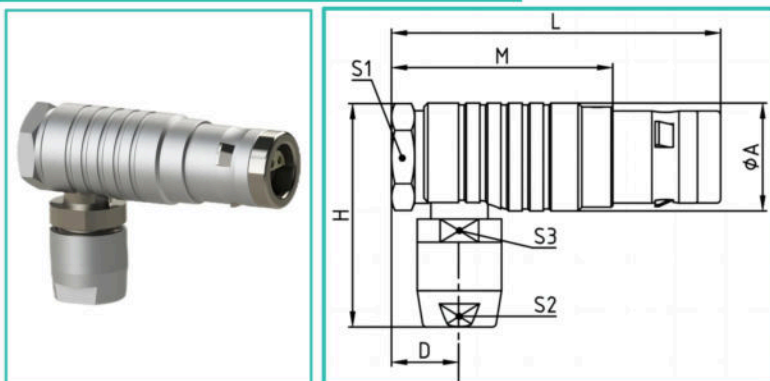
GB-TFA - straight plug, oversize cable collet



Note: corresponding to C type of collet, with oversize collet, it allows them to be fitted to the cables that can be accommodated by the next housing size up.

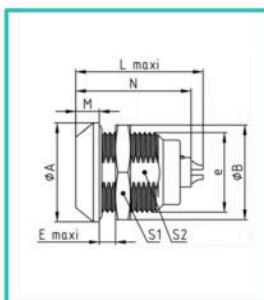
series	A	B	L	M	S1	S2
1E	13.0	14.5	55.0	41.0	12.0	12.0
2E	16.0	17.0	65.0	49.0	15.0	15.0
3E	19.0	22.0	80.0	60.0	19.0	19.0

GB-TLA - Elbow socket, cable collet



series	A	D	H	L	M	S1	S2	S3
3E	21	11.5	47.0	60.0	40.0	18.0	15.0	15.0

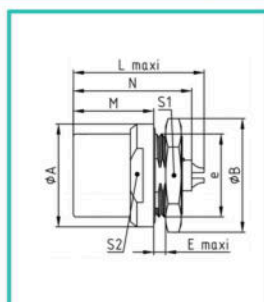
GB-ZRA - Fixed socket, nut fixing



series	A	B	e	E	L	L ¹	M	S1	S2
0E	18.0	19.2	M14*1.0	5.5	19.5	20.5	4.0	12.5	17.0
1E	20.0	21.5	M16*1.0	9.0	24.0	25.3	4.5	14.5	19.0
2E	25.0	27.0	M20*1.0	9.0	28.5	30.0	5.0	18.5	24.0
3E	31.0	34.0	M24*1.0	11.0	34.0	35.0	6.0	22.5	30.0

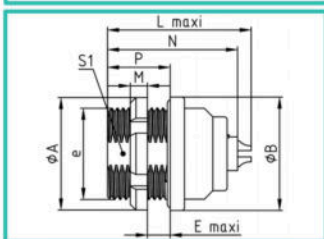
Note: L¹ Unipole model

EHP - Fixed socket, nut fixing, protruding shell



series	A	B	e	E	L	M	S1	S2
0E	18.0	19.5	M14*1.0	1.5	19.5	10.5	17.0	15.0
1E	20.0	21.5	M16*1.0	1.5	24.0	15.5	19.0	17.0
2E	25.0	27.0	M20*1.0	1.5	28.5	17.0	24.0	20.0

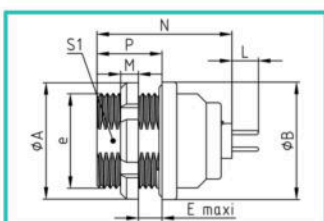
GB-ZEP - Fixed socket, nut fixing (back panel mounting)



series	A	B	e	E	L	L ¹	M	P	S1
0E	18.0	18.0	M14*1.0	3.5	19.5	20.5	3.5	7.0	12.5
1E	20.0	20.0	M16*1.0	6.5	24.0	25.3	3.5	10.0	14.5
2E	25.0	25.0	M20*1.0	6.5	28.5	30.0	3.5	10.0	18.5
3E	30.0	31.0	M24*1.0	7.5	34.0	35.0	4.5	12.0	22.5

Note: L¹ Unipole model

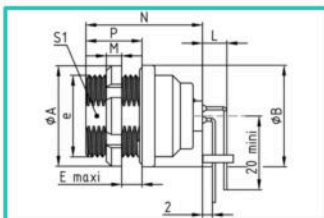
GB-ZEP - Fixed, nut fixing, with straight contact for printed circuit (back panel mounting)



series	A	B	e	E	M	N	P	S1
0E	18.0	18.0	M14*1.0	3.5	3.5	16.0	7.0	12.5
1E	20.0	20.0	M16*1.0	6.5	3.5	21.5	10.0	14.5
2E	25.0	25.0	M20*1.0	6.5	3.5	24.0	10.0	18.5
3E	30.0	31.0	M24*1.0	7.5	4.5	29.5	12.0	22.5

Note: this contact type is available for E** socket models fitted with female contact. The length "L" depends on the number of contacts, see page 92 to page 94

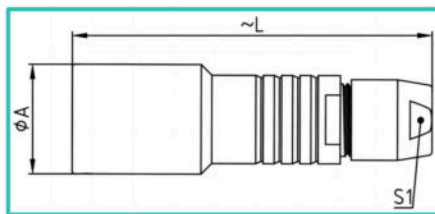
GB-ZEP - Fixed socket, nut fixing, with elbow contact for printed circuit (back panel mounting)



series	A	B	e	E	M	N	P	S1
1E	20.0	20.0	M16*1.0	6.5	3.5	21.5	10.0	14.5
2E	25.0	25.0	M20*1.0	6.5	3.5	24.0	10.0	18.5

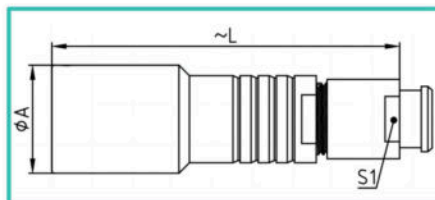
Note : this contact type is available for E** socket models fitted with female contact. The length "L" depends on the number of contacts, see page 92 to page 94

GB-DCA - free socket, cable collet



series	A	L	S1
0E	13.0	34.0	8.0
1E	15.0	45.0	9.0
2E	19.0	54.0	12.0
3E	23.0	65.0	15.0

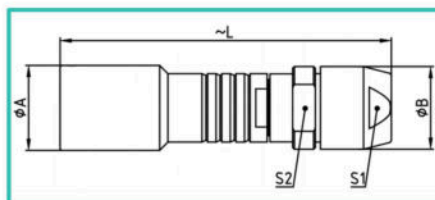
GB-DCA - free socket, cable collet and nut for fitting a bend relief



series	A	L	S1
0E	13.0	34.0	7.0
1E	15.0	45.0	9.0
2E	19.0	54.0	12.0
3E	23.0	64.0	15.0

Note: bend relief must be ordered separately.

GB-DCA - free socket with oversize cable collet



series	A	B	L	S1	S2
1E	15.0	14.5	58.0	12.0	12.0
2E	19.0	17.0	67.0	15.0	15.0
3E	23.0	22.0	84.0	19.0	19.0

Note : corresponding to C type of collet, with oversize collet, it allows them to be fitted to the cables that can be accommodated by the next housing size up.

Plastic Circular Push Pull Connectors P Series



1P Series Connectors

Main Features :

- ▲ security of the push pull self-latching system
- ▲ multiple types
- ▲ high packing density for space savings.
- ▲ keying system for connector alignment
- ▲ solder, print (straight or elbow) contacts



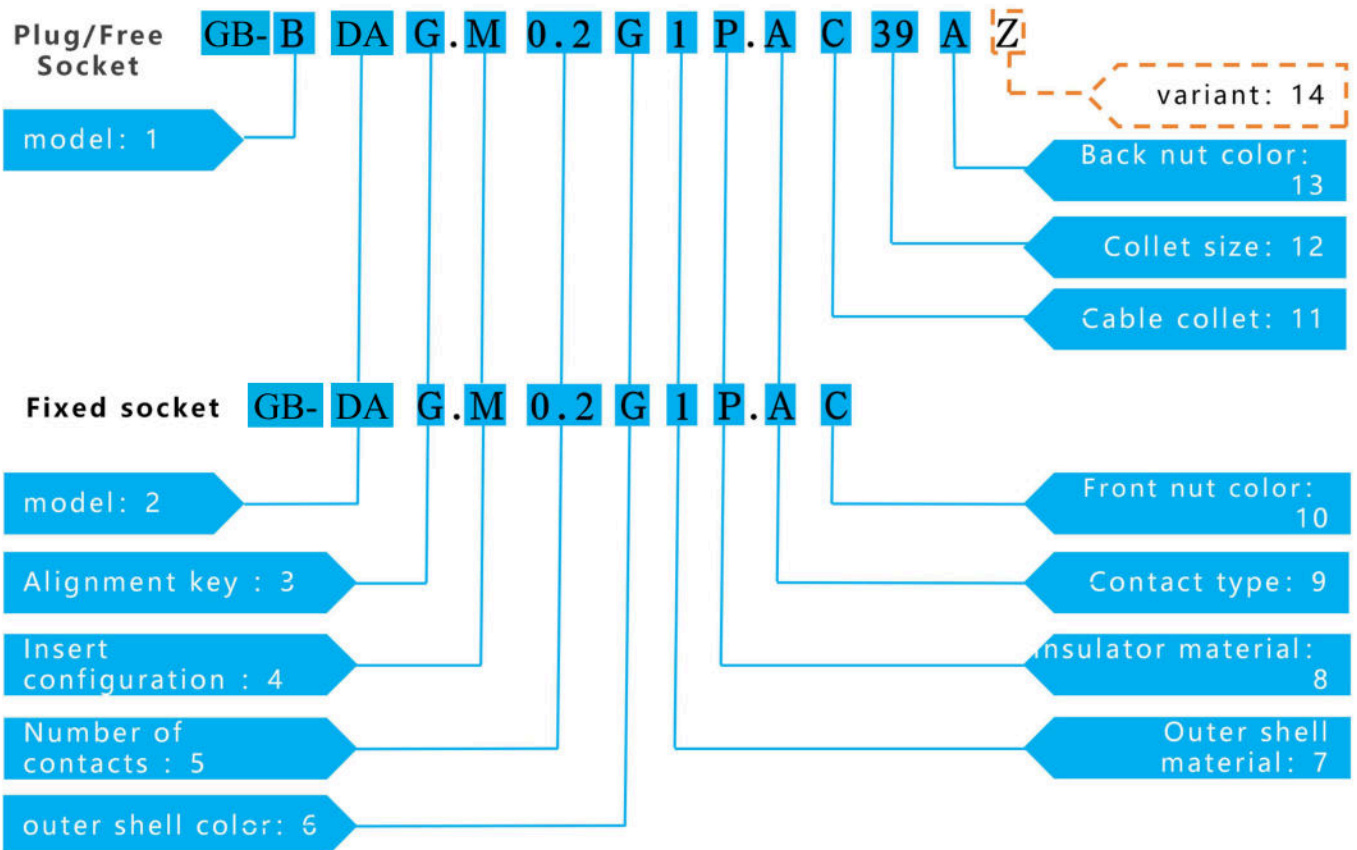
Technical Characteristics :

Mechanical and climatical:

- ▲ Endurance: >1000 cycles;
- ▲ Humidity: up to 95% at 60°;
- ▲ Temperature range: when filled resin, -55°~+200°
- ▲ Resistance to vibration: 10-2000Hz, 15g;
- ▲ Shock resistance : 100g, 6ms;
- ▲ Salt spray corrosion test: >24h;
- ▲ IP rating: IP50~IP64;



Part Numbering System



Note:

- 1 Outer shell pattern: plain pattern (B) 、bowling pattern (C)
- 2 Model: GB-DA, GB-P-ZL, GB-P-ZK.....
- 3 Alignment key: G、A、B、C、H、J.....
- 4 Contact type: M (multipole) 、N (power) 、A (pneumatic)
- 5 number of contacts: 2 contacts (0.2) 、3 contacts (0.3) 、10 contacts (1.0) 、14 contacts (1.4)
- 6 outer shell color: grey (G) 、black (N) 、white (B)
- 7 shell material: PC (1) 、PSU (2) 、PEI (3)
- 8 insulator material: PPS (P) 、PEEK (L) 、Teflon material (T)
- 9 Contact: solder type female contact (L) 、solder type male contact (A) 、print type female contact (N) 、print type male contact (D) 、90° elbow print type contact (V)
- 10 front nut color: grey (G) 、blue (A) 、white (B) 、yellow (J) 、black (N) 、red (R) 、green (V)
- 11 cable collet type: C type (C)
- 12 cable collet size: 3.9mm (39) 、5.2mm (52) 、6.5mm (65)
- 13 back nut color: grey (G) 、blue (A) 、white (B) 、yellow (J) 、black (N) 、red (R) 、green (V)
- 14 Variant: nut for fitting a bend relief (Z)

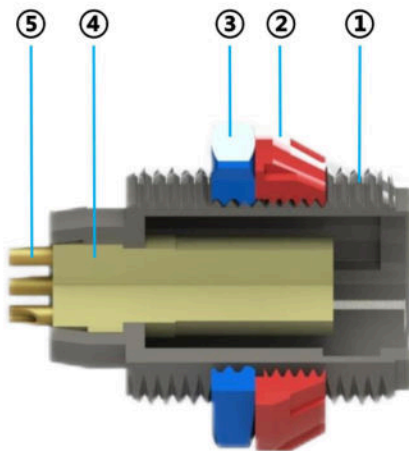
Example:

Straight plug: GB-CDAG.M0.2G1P.AC39AZ= bowling pattern outer shell (C), model (GB-DAG), multipole (M), 2 contacts (0.2), grey shell (G) , PC material shell (1) , insulator material (P) , solder type male contact (A) , C type collet (C) , 3.9 mm cable collet (39) , blue back nut (A) , nut for fitting a bend relief (Z)

Free socket: GB-BDRG.M0.2G1P.LC39AZ= plain pattern outer shell (B), model (GB-DRG), multipole (M), 2 contacts (0.2), grey shell (G) , PC material shell (1) , insulator material (P) , solder type female contact (L) , C type collet (C) , 3.9 mm cable collet (39) , blue back nut (A) , nut for fitting a bend relief (Z)

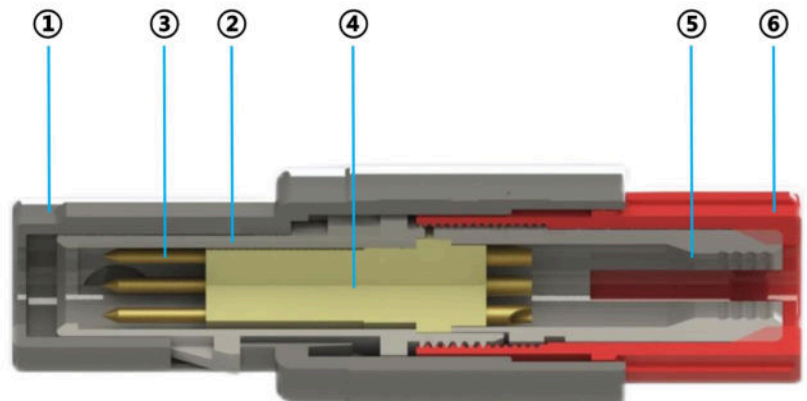
Fixed socket: GB-P-ZKG.M0.2G1P.LA= model (GB-P-ZKG), multipole (M), 2 contacts (0.2), grey shell (G), PC material shell (1) , insulator material (P) , solder type female contact (L) , blue nut (A)

Part Section Showing Internal Components



Fixed socket

- 1: outer shell
- 2: front nut
- 3: hexagonal nut
- 4: insulator
- 5: female contact



Straight plug

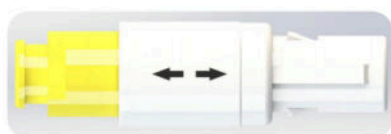
- 1: outer shell
- 2: latch sleeve
- 3: male contact
- 4: insulator
- 5: cable collet
- 6: back nut

Plastic shell models

Straight plug

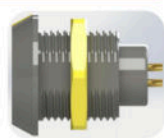


GB-DA●



GB-DA●

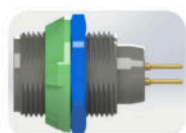
Fixed socket



GB-DA●



GB-P-ZK●



GB-P-ZK●



GB-P-ZK●

Free socket



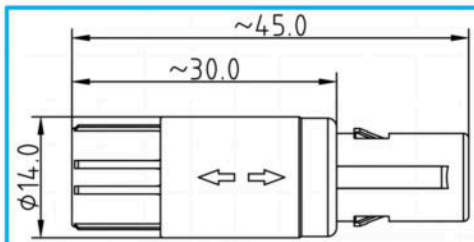
GB-DR●



GB-DR●

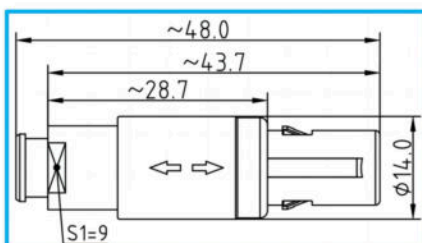
Plastic shell models

GB-DAG - straight plug, key (G) and keys (A, B, C, H, J...), cable collet



Part number	Cable ϕ	
	min	max
GB-DAG.M●.●G1P.AJ20A	1.7	2.0
GB-DAG.M●.●G1P.AJ39A	2.7	3.9
GB-DAG.M●.●G1P.AJ52A	4.0	5.2
GB-DAG.M●.●G1P.AJ65A	5.3	6.5

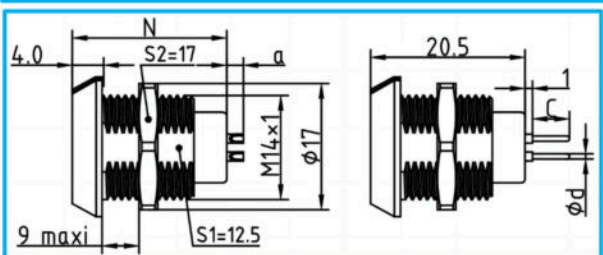
GB-DAG - straight plug, key (G) and keys (A, B, C, H, J...), cable collet, nut for fitting a bend relief



Note: bend relief must be ordered separately.

Part number	cable ϕ	
	min	max
GB-DAG.M●.●G1P.AJ20AZ	1.7	2.0
GB-DAG.M●.●G1P.AJ39AZ	2.7	3.9
GB-DAG.M●.●G1P.AJ52AZ	4.0	5.2
GB-DAG.M●.●G1P.AJ65AZ	5.3	6.5

GB-P-ZLG - fixed socket, key (G) and keys (A, B, C, H, J...), nut fixing

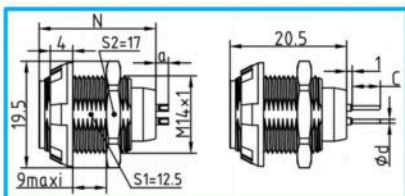


Solder type

Print type

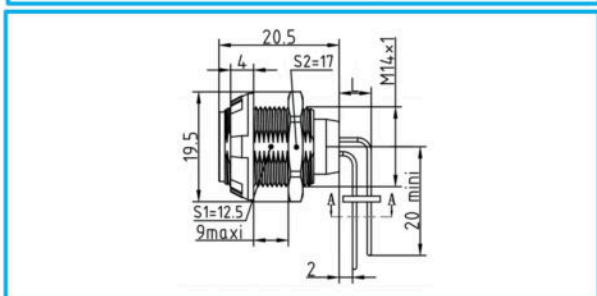
Part number	No. of contacts	solder		print	
		N	a maxi	C	ϕd
GB-P-ZLG.M0.2G1P.LG	2	20.5	2.5	5	0.7
GB-P-ZLG.M0.4G1P.LG	4	20.5	2.5	5	0.7
GB-P-ZLG.M0.5G1P.LG	5	20.5	2.5	5	0.7
GB-P-ZLG.M0.6G1P.LG	6	20.5	2.5	3	0.5
GB-P-ZLG.M0.7G1P.LG	7	20.5	4.5	3	0.5
GB-P-ZLG.M0.8G1P.LG	8	20.5	4.5	3	0.5
GB-P-ZLG.M0.9G1P.LG	9	20.5	3.9	3	0.5
GB-P-ZLG.M1.0G1P.LG	10	20.5	3.9	3	0.5
GB-P-ZLG.M1.4G1P.LG	14	20.5	3.9	3	0.5

GB-P-ZKG - fixed socket with two nuts, key (G) and keys (A, B, C, H, J,...) (back panel mounting)



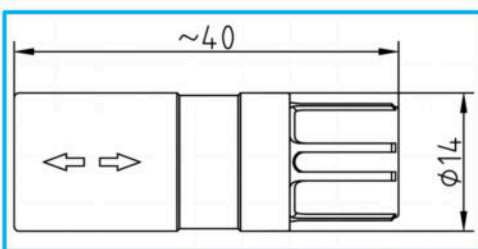
Part number	No. of contacts	solder		print	
		N	a maxi	C	φd
GB-P-ZLG.M0.2G1P	2	20.5	2.5	5	0.7
GB-P-ZLG.M0.4G1P	4	20.5	2.5	5	0.7
GB-P-ZLG.M0.5G1P	5	20.5	2.5	5	0.7
GB-P-ZLG.M0.6G1P	6	20.5	2.5	3	0.5
GB-P-ZLG.M0.7G1P	7	20.5	4.5	3	0.5
GB-P-ZLG.M0.8G1P	8	20.5	4.5	3	0.5
GB-P-ZLG.M0.9G1P	9	20.5	3.9	3	0.5
GB-P-ZLG.M1.0G1P	10	20.5	3.9	3	0.5
GB-P-ZLG.M1.4G1P	14	20.5	3.9	3	0.5

GB-P-ZKG - fixed socket with two nuts, key (G) and keys (A, B, C, H, J,...), elbow print pin (back panel mounting)



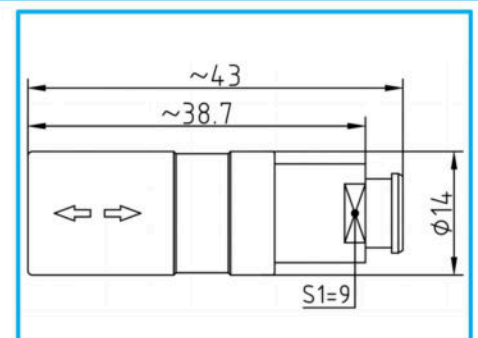
Part number	No. of contacts	L
GB-P-ZLG.M0.2G1P.VG	2	5.4
GB-P-ZLG.M0.4G1P.VG	4	5.2
GB-P-ZLG.M0.5G1P.VG	5	7.7
GB-P-ZLG.M0.6G1P.VG	6	7.7
GB-P-ZLG.M0.7G1P.VG	7	7.7
GB-P-ZLG.M0.8G1P.VG	8	7.7
GB-P-ZLG.M0.9G1P.VG	9	10.3
GB-P-ZLG.M1.0G1P.VG	10	10.3
GB-P-ZLG.M1.4G1P.VG	14	12.9

GB-DRG - free socket, key (G) and keys (A, B, C, H, J,...), cable collet



Part number	Cable φ	
	min	max
GB-DRG.M●.G1P.AR20A	1.7	2.0
GB-DRG.M●.G1P.AR39A	2.7	3.9
GB-DRG.M●.G1P.AR52A	4.0	5.2
GB-DRG.M●.G1P.AR65A	5.3	6.5

GB-DRG - free socket, key (G) and keys (A, B, C, H, J,...), cable collet and nut for fitting a bend relief



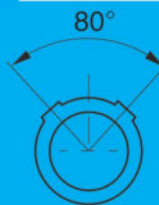
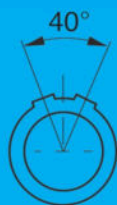
Part number	Cable φ	
	min	max
GB-DRG.M●.G1P.AR20AZ	1.7	2.0
GB-DRG.M●.G1P.AR39AZ	2.7	3.9
GB-DRG.M●.G1P.AR52AZ	4.0	5.2
GB-DRG.M●.G1P.AR65AZ	5.3	6.5

Note: bend relief must be ordered separately.

Alignment key (1P series)

Use the keying character at the end of the model family (for example, G in GB-DAG) to select the required keying.

Keying (plug front view)



Reference	G	A	B	C	H	J
Contact type for plug	male	male	male	male	female	female
Contact type for socket	female	female	female	female	male	male
Number of contacts	2-14				8, 10-14	

Outer shell material

Ref.	Material	Ref.	color	temperature
3	PEI	G	grey	-50°C/+170°C
3	PEI	N	black	-50°C/+170°C
2	PSU	G	grey	-50°C/+150°C
2	PSU	N	black	-50°C/+150°C
1	PC	G	grey	-40°C/+135°C
1	PC	N	black	-40°C/+135°C

Note: for extensive sterilization use PEI. For complete connector in PEI (collet nut, front nut or flange also in PEI), available colors are grey or black only. Use color coding grey or black according to color coding table (see below)

Color coding

color	grey	blue	yellow	black	red	green	white
Ref.	G	A	J	N	R	V	B
RAL code	7001	5002	1016	9005	3020	6024	9003

Note: the RAL colors are indicative and depend on raw material and production process. Color may differ.

Circular Push Pull Connectors

F Series



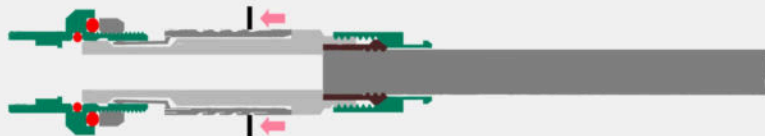
F Series Connectors

Locking Principle

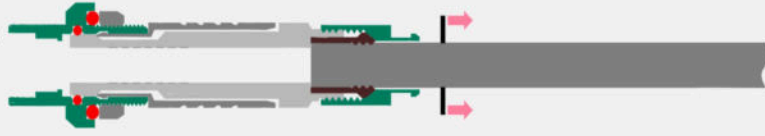
Connector in unmated condition



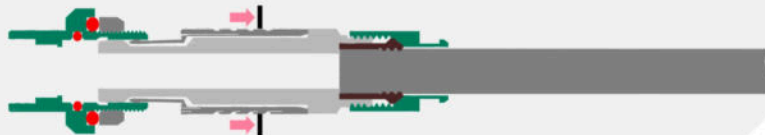
Connector in mated condition



Pulling on the cable or on the back nut causes the locking fingers to grip tighter into the groove inside the receptacle. A separation is virtually impossible.

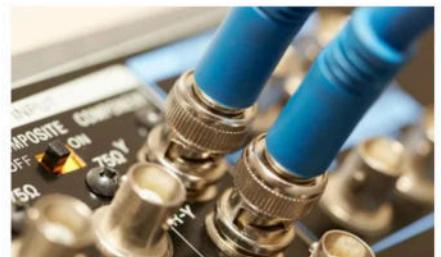


Pulling on the outer plug housing disengages the locking fingers from the receptacle groove and the connector separates easily.



Important Applications for F Series Connectors

- Medical Electronics
- Test and Laboratory
- Measurement Instrumentation
- Data and Telecom Systems
- Audio and Video Applications
- Military and Aerospace
- Industrial Controls



Main Features:

Quick and easy mating and de-mating, Quick and easy separating

Definite and secure locking condition

multiple key options to avoid cross mating of similar connectors.

360 degree screening for full EMC shielding.

high packing density for space savings.

solder, print (straight or elbow) contacts

Technical Characteristics

Temperature range : $-55^{\circ}\sim+155^{\circ}$;

Humidity: 90%~90% ($40\pm 2^{\circ}\text{C}$) ;

IP rating: IP68;

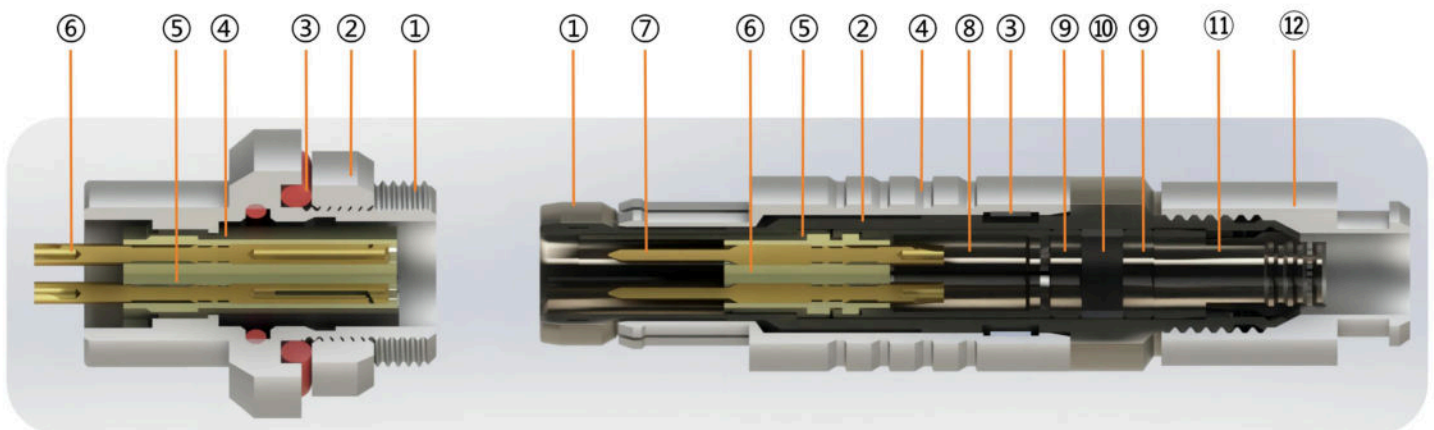
Salt spray corrosion test: >96h

Endurance: 5000 cycles;

Resistance to vibration : 10Hz ~ 2000Hz

Shock resistance : 980m/s^2

Part Section Showing Internal Components



Fixed socket

- 1: outer shell
- 2: nut
- 3: O ring
- 4: insulator carrier
- 5: insulator
- 6: female contact

Straight plug

- 1: conical sleeve
- 2: inner shell
- 3: locking ring
- 4: outer shell
- 5: guide ring
- 6: insulator
- 7: male contact
- 8: insulator carrier

- 9: EMI ring
- 10: gasket
- 11: cable collet
- 12: back nut

Part Numbering System

Straight Plug

S4.0F.1 C.302 .P A R D 62 Z

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪

Note:

1 Model: SS, SS1, S2, S4.....

2 series: 0F, 1F, AF, 2F.....

3 coding: (1), (2), (3), (4), see coding table at page 69

4 Housing: brass, black chrome plating (S), brass, chrome plating (C), brass, nickel plating (N), black chrome plated brass outer shell and nickel plated brass latch sleeve (H), chrome plated brass outer shell and nickel plated brass latch sleeve (K)

5 Number of contacts: 2 contacts (302), 3 contacts (303)10 contacts (310)

6 insulator material: PPS (P), PEEK (L), Teflon material (T)

7 Contact type: solder type female contact (L), solder type male contact (A), print type female contact (N), print type male contact (D), 90° elbow print type contact (V)

8 Dot color: red color (R), white color (B)

9 collet type: standard collet (D), S, U, E.....

10 collet size: 6.2mm (62), 5.2mm (52), 4.2mm (42)

11 back nut: chrome plated brass nut for fitting a bend relief (Z), nickel plated brass nut for fitting a bend relief (Z1), chrome plated brass standard nut with a hole (N1), chrome plated brass standard nut without a hole (N2), bright nickel plated brass standard nut with a hole (N3), nickel plated brass standard nut without a hole (N4), matt nickel plated brass standard nut with a hole (N5), black chrome plated brass standard nut with a hole (N7), knurl back nut (G)

Fixed socket

GB-G8.0F.1 C.302.P L R R - 30 L

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪

Note:

1 Model: GB-G8, GK, GB-G8-3.....

2 Series: 0F, 1F, AF, 2F.....

3 Coding: (1), (2), (3), (4), see coding table at page 69

4 Housing : brass, black chrome plating (S), brass, chrome plating (C)

5 Number of contacts: 2 contacts (302), 3 contacts (303)10 contacts (310)

6 insulator material: PPS (P), PEEK (L), Teflon material (T)

7 Contact type: solder type female contact (L), solder type male contact (A), print type female contact (N), print type male contact (D), 90° elbow print type contact (V)

8 Dot color: red color (R), white color (B)

9 gasket type: red silicone gasket (R), black silicone gasket (N), grey conductive gasket (D), blue conductive gasket (L), black silicone rectangle gasket (E)

10 variant: contact length exceeds the shell surface 30mm (30)

11 variant: with earthing tag

**Free socket
GB-DGX model**

GB-DGX . 0F . 1 C . 302 . P L R - N8 L

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

Note:

1 Model: GB-SS, GB-SS1, GB-S2, GB-S4.....

2 series: 0F、1F、AF、2F.....

3 Coding: (1)、(2)、(3)、(4), see coding table at page 69

4 Housing: brass, black chrome plating (S)、brass, chrome plating (C)

5 Number of contacts: 2 contacts (051)、3 contacts (052)、4 contacts (053)

6 insulator material: PPS (P)、PEEK (L)、Teflon material (T)

7 Contact type: solder type female contact (L)、solder type male contact (A)、print type female contact (N)、print type male contact (D)、90° elbow print type contact (V)

8 Dot color: red color (R)、white color (B)

9 back nut: chrome plated brass nut for fitting a bend relief (Z)、nickel plated brass nut for fitting a bend relief (Z1)、chrome plated brass standard nut with a hole (N1)、chrome plated brass standard nut without a hole (N2)、bright nickel plated brass standard nut with a hole (N3)、nickel plated brass standard nut without a hole (N4)、matt nickel plated brass standard nut with a hole (N5)、black chrome plated brass standard nut with a hole (N7)、knurl back nut (G)

10 variant: with earthing tag

**Free socket
GB-KE model**

GB-KE . 102 . 1 C . 051 . P L R 62 Z

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

Note:

1 Model: GB-KE, GB-K.....

2 Series: 102、103、1031.....

3 Coding: (1)、(2)、(3)、(4), see coding table at page 69

4 Housing: brass, black chrome plating (S)、brass, chrome plating (C)

5 Number of contacts: 2 contacts (051)、3 contacts (052)、4 contacts (053)

6 insulator material: PPS (P)、PEEK (L)、Teflon material (T)

7 Contact type: solder type female contact (L)、solder type male contact (A)、print type female contact (N)、print type male contact (D)、90° elbow print type contact (V)

8 Dot color: red color (R)、white color (B)

9 collet size: 6.2mm (62)、5.2mm (52)、4.2mm (42)

10 back nut: chrome plated brass nut for fitting a bend relief (Z)、nickel plated brass nut for fitting a bend relief (Z1)、chrome plated brass standard nut with a hole (N1)、chrome plated brass standard nut without a hole (N2)、bright nickel plated brass standard nut with a hole (N3)、nickel plated brass standard nut without a hole (N4)、matt nickel plated brass standard nut with a hole (N5)、black chrome plated brass standard nut with a hole (N7)、knurl back nut (G)

Metal housing models

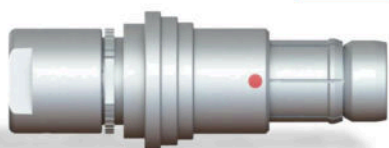
Straight plug



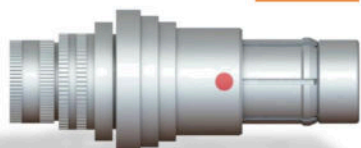
GB-S4



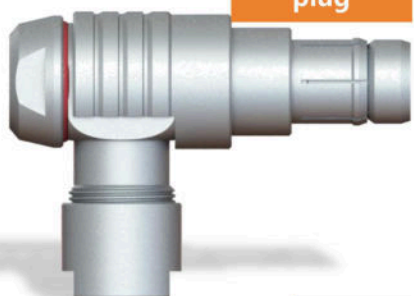
GB-S2



GB-SS1



GB-SS



GB-WSO

Free socket



GB-KE



GB-DGX

Fixed socket



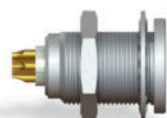
GB-G8



GB-G8-3



GB-G8-11



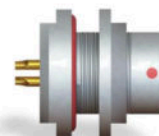
GB-G1



GB-G2



GB-G4



GB-GK



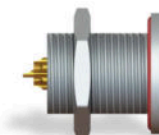
GB-DEE



GB-DBP



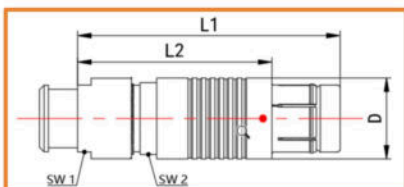
GB-DG



GB-DEU

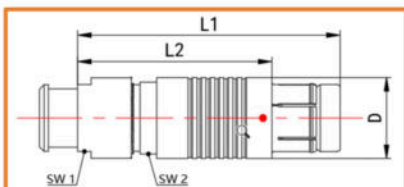
GB-DBP

① straight plug S4 (IP68)



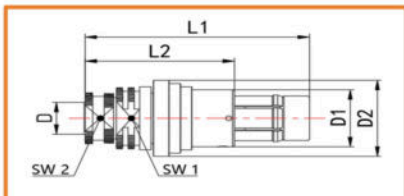
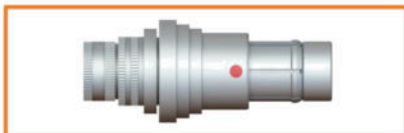
series	L1	L2	D	SW 1 A	SW 1 A1	SW 2 B	SW 2 B1
0F	~ 37.0	~ 27.0	9.5	8.0	9.0	7.0	8.0
1F	~ 44.0	~ 33.0	12.0	10.0	-	9.0	-
AF	~ 47.0	~ 37.0	13.0	11.0	-	12.0	-
2F	~ 49.0	~ 37.0	15.0	12.0	-	13.0	-
3F	~ 58.0	~ 43.0	18.0	15.0	-	16.0	-

② straight plug S2 (IP50)



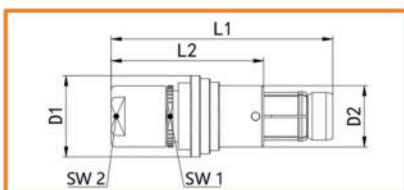
series	L1	L2	D	SW 1 A	SW 1 A1	SW 2 B	SW 2 B1
0F	~ 37.0	~ 27.0	9.5	8.0	9.0	7.0	8.0
1F	~ 44.0	~ 33.0	12.0	10.0	-	9.0	-
AF	~ 47.0	~ 37.0	13.0	11.0	-	12.0	-
2F	~ 49.0	~ 37.0	15.0	12.0	-	13.0	-
3F	~ 58.0	~ 43.0	18.0	15.0	-	16.0	-

③ short plug SS (IP68)



series	L1	L2	D maxi	D1	D2	SW 1	SW 2
0F	~ 30.0	~ 20.0	3.8	9.0	12.0	8.0	7.0
1F	~ 33.0	~ 22.0	6.0	12.0	15.0	11.0	10.0
AF	~ 33.0	~ 23.0	6.2	12.4	15.5	11.0	10.0
2F	~ 38.0	~ 26.0	8.0	15.0	18.0	12.0	13.0
3F	~ 44.0	~ 29.0	10.0	18.0	21.0	15.0	16.0

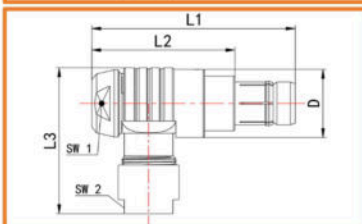
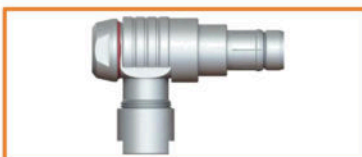
④ plug SS1 (IP68)



series	L1	L2	D1	D2	SW 1 A	SW 1 B1	SW 2 B1	SW 2 B2
0F	~ 33.0	~ 23.0	11.9	9.0	8.0	7.0	9.0	8.0
1F	~ 37.0	~ 26.0	15.0	12.0	11.0	-	12.0	-
AF	~ 40.0	~ 30.0	15.5	12.3	11.5	-	12.0	-
2F	~ 46.0	~ 34.0	18.0	15.0	14.0	-	14.0	-
3F	~ 52.0	~ 37.0	21.0	18.0	16.5	-	16.0	-

Elbow plug model:

Elbow plug GB-WSO (IP68)



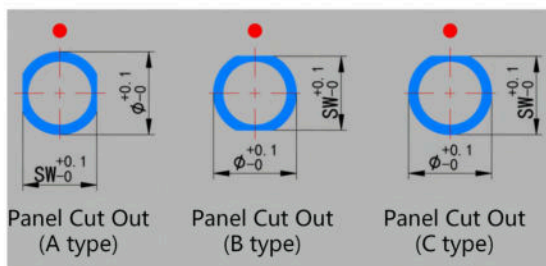
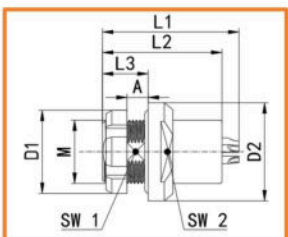
series	L1	L2	L3	D	SW 1	SW 2
0F	~ 33.0	~ 23.0	~ 24.0	12.0	9.0	8.0
1F	~ 38.0	~ 27.0	~ 29.0	15.0	11.0	12.0
AF	~ 41.0	~ 30.0	~ 33.0	17.0	12.0	11.0
2F	~ 45.0	~ 33.0	~ 39.0	19.0	14.0	12.0

C) Fixed socket model:

Fixed socket GB-G8 (IP68)

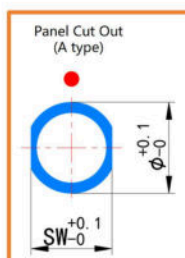
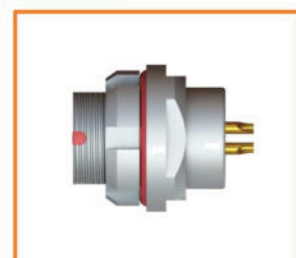
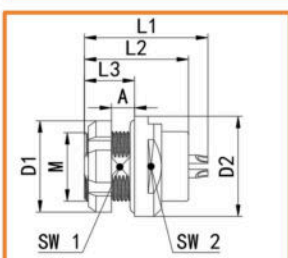


series	L1	L2	L3	A maxi	M	D1	D2	SW 1					SW 2
								A	A1	B	B1	C	
0F	~ 19.4	17.0	6.5	3.0	M9*0.5	12.0	14.0	8.1	8.1	8.1	7.9	8.5	11.0
1F	~ 23.8	21.0	8.0	4.0	M14*1	18.0	18.0	12.0	12.5	12.5	-	-	15.0
AF	~ 21.7	19.5	7.0	3.0	M14*1	18.0	19.0	12.0	-	12.5	-	-	15.0
2F	~ 25.0	22.5	8.0	4.0	M16*1	20.0	21.0	14.3	-	14.3	-	15.15	16.0
3F	~ 28.7	26.5	10.0	5.0	M20*1	24.9	27.0	-	-	-	-	18.9	20.0
3F	~ 30.3	28.5	10.0	5.0	M20*1	24.9	25.8	-	-	18.0	-	-	-
3F	~ 27.1	24.0	10.0	5.0	M20*1	24.9	25.8	-	-	18.0	-	-	20.0



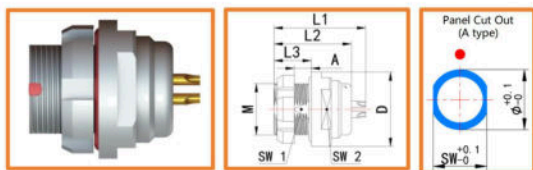
series	SW 1					φ
	SW A	SW A1	SW B	SW B1	SW C	
0F	8.2	8.2	8.2	8.0	8.6	9.1
1F	12.1	12.6	12.6	-	-	14.1
AF	12.1	-	12.6	-	-	14.1
2F	14.4	-	14.4	-	15.25	16.1
3F	-	-	-	-	19.0	20.1
3F	-	-	18.1	-	-	20.1
3F	-	-	18.1	-	-	20.1

Fixed socket GB-G8-3 (IP68)



series	L1	L2	L3	A maxi	M	D1	D2	SW 1		SW 2	Panel cut dimensions	
								A	B		SW A	φ
0F	~ 16.0	13.5	6.5	3.5	M9*0.5	12.0	13.0	7.8	7.8	11.0	7.9	9.1

Fixed socket GB-G8-11

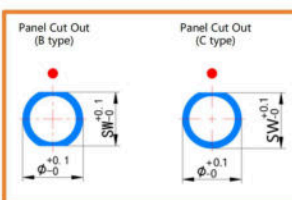
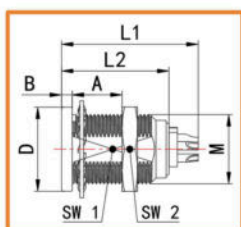


series	L1	L2	L3	A maxi	D	M	SW 1	SW 2	Panel cut dimensions	
									SW 1 A	φ
0F	~ 15.5	13.5	6.5	3.5	13.0	M9*0.5	8.3	14	8.4	9.1

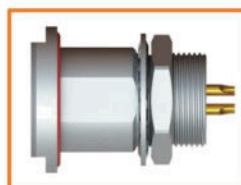
Fixed socket GB-G1 (IP50)



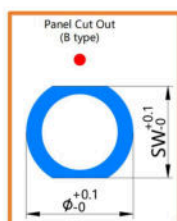
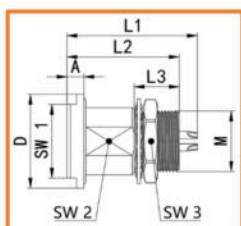
series	L1	L2	A maxi	B	D	M	SW 1 B	SW 1 C	SW 2	Panel cut dimensions		
										SW 1 B	SW 1 C	φ
0F	~ 18.0	14.0	9.0	1.4	11.0	M9*0.5	-	8.4	11.0	-	8.5	9.1
1F	~ 20.5	16.5	8.0	1.6	14.0	M12*1	10.0	11.0	14.0	10.1	11.1	12.1
2F	~ 23.0	18.0	10.0	2.0	18.5	M15*1	-	14.0	17.0	-	14.1	15.1
3F	~ 18.0	24.0	15.0	2.0	21.9	M18*1	-	17.0	22.0	-	17.1	18.1



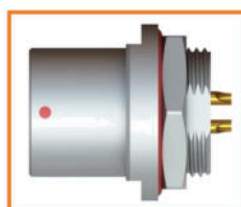
Fixed socket GB-G2 (IP68)



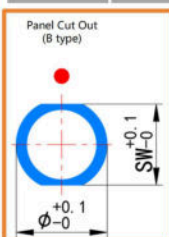
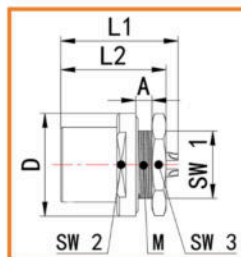
series	L1	L2	L3	A	D	M	SW 1	SW 2	SW 3	Panel cut dimensions	
										SW 2 B	φ
0F	~ 19.5	16.7	6.7	2.5	14.0	M9*0.5	11.0	9.0	11.0	9.1	10.1



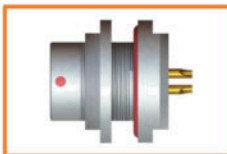
Fixed socket GB-G4 (IP68)



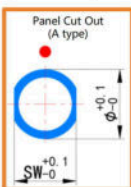
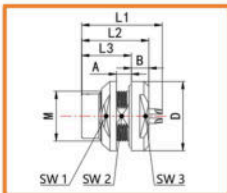
series	L1	L2	A maxi	D	M	SW 1	SW 2	SW 3	Panel cut dimensions	
									SW 2 B	φ
0F	~ 21.0	18.5	3.5	18.0	M9*0.5	8.2	11.0	12.0	8.3	10.1
	~ 22.0	22.5	3.5	18.0	M16*1	14.4	17.0	19.0	14.5	16.1



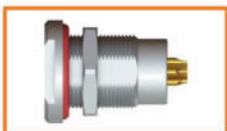
Fixed socket GB-GK (IP50)



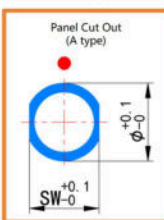
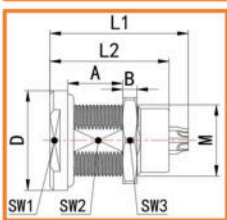
series	L1	L2	L3	A maxi	B	D	M	SW 1	SW 2	SW 3	Panel cut dimensions	
											SW 1 A	φ
0F	~ 15.5	13.5	10.0	3.5	3.5	14.0	M10*0.5	11.0	9.0	11.0	9.1	10.1
1F	~ 23.5	21.0	17.5	6.5	-	18.0	M14*1	-	12.0	15.0	12.1	14.1
AF	~ 21.5	19.5	16.0	6.0	3.5	19.0	M15*1	17.0	13.4	15.0	13.5	15.1



Fixed socket GB-DEE (IP68)



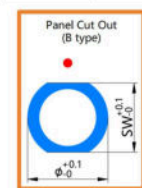
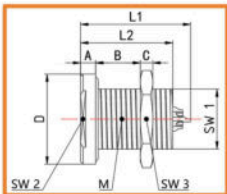
series	L1	L2	A maxi	B	D	M	SW 1	SW 2	SW 3	Panel cut dimensions	
										SW 1 A	φ
0F	~ 19.5	16.5	8.0	2.0	14.0	M10*0.5	11.0	9.0	12.0	9.1	10.1



Fixed socket GB-DEU (IP68)



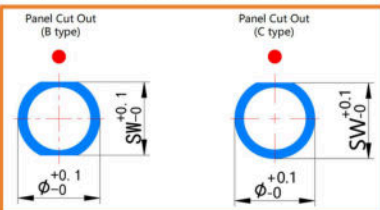
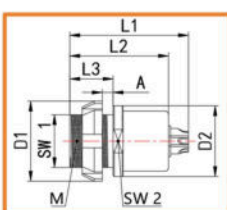
series	L1	L2	A	B maxi	C	D	M	SW 1	SW 2	SW 3	Panel cut dimensions	
											SW 1 A	φ
1F	~ 22.0	18.5	3.0	13.0	2.5	18.0	M14*1	12.0	14.0	17.0	12.1	14.1
AF	~ 23.0	19.5	3.0	14.0	2.5	19.0	M14*1	12.9	14.95	17.0	13.0	14.1
2F	~ 24.5	20.0	4.0	12.5	3.5	22.0	M16*1	14.4	15.95	24.0	14.5	16.1



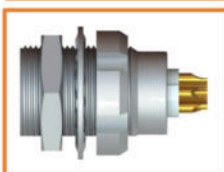
Fixed socket GB-DBP (IP50)



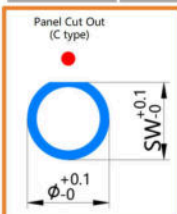
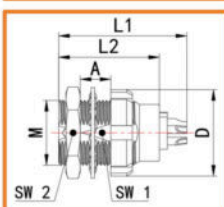
series	L1	L2	L3	A maxi	D1	D2	M	SW1 B	SW 1 C	SW 2	Panel cut dimensions		
											SW 1 B	SW 1 C	φ
0F	~ 17.5	14.8	6.5	3.5	12.0	10.5	M9*0.5	7.9	-	10.0	8.0	-	9.1
3F	~ 27.5	24.0	17.0	12.0	23.0	19.9	M18*1	-	17.0	-	-	17.1	18.1



Fixed socket GB-DG (IP50)

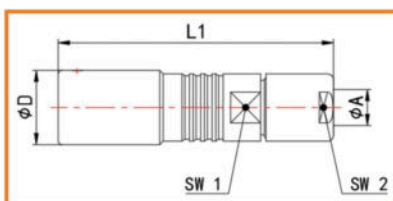


series	L1	L2	A maxi	D	M	SW 1	SW 2	Panel cut dimensions	
								SW 1 C	φ
0F	~ 18.0	14.0	6.5	12.0	M9*0.5	8.4	11.0	8.5	9.1



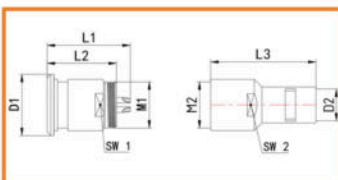
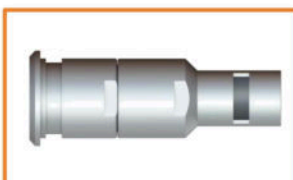
Free socket models

Free socket GB-KE (IP68)



series	L1	A maxi	D	SW 1	SW 2
0F	~ 18.0	5.0	10.0	8.0	7.0
1F	~ 45.0	7.0	12.9	10.0	9.0
AF	~ 33.0	8.0	13.5	11.0	11.0

Free socket GB-DGX (IP68)

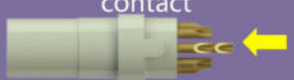
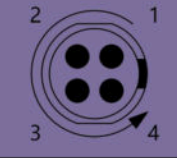
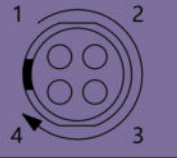
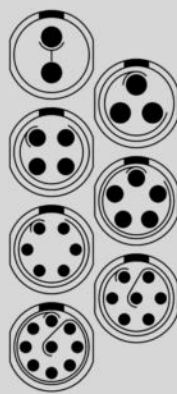
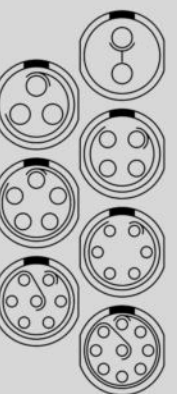
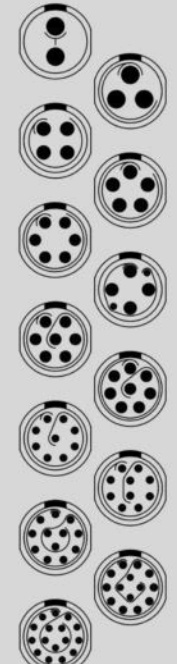
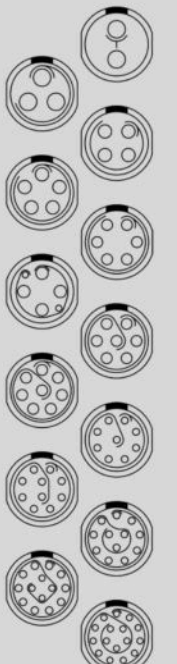


series	L1	L2	L3	D1	D2	M1	M2	SW 1	SW 2
0F	~ 18.0	13.5	20.5	12	6.2	M9*0.5	M9*0.5	9.0	9.0

Coding

	Ref.	plug	socket	series				
				0F	1F	AF	2F	3F
	1			•	•	•	•	•
	2			•	•			
	3					•	•	•
	4					•	•	•

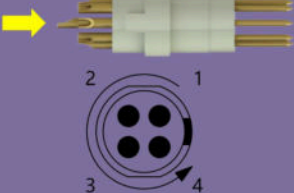
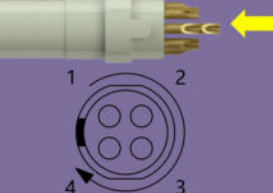
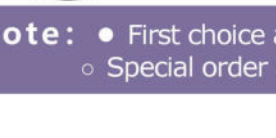
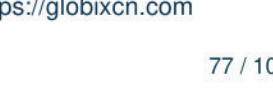
Insert Configuration (B, K, T series)

multipole	Solder type male contact	Solder type female contact	ref.	No. of contacts	contact diameter	Contact type			Solder contact	rated current (A)
						solder	Print(straight)	Print(elbow)	contact to contact test voltage (V)	
00			302	2	0.5	•	•	•	900	3.5
			303	3	0.5	•	•	•	700	3.0
			304	4	0.5	•	•	•	700	2.0
			305	5	0.35	•	-	•	600	1.7
0B 0K 0T			302	2	0.9	•	•	•	900	10.0 ²
			303	3	0.9	•	•	•	700	8.0 ²
			304	4	0.7	•	•	•	600	7.0 ²
			305	5	0.7	•	•	•	600	6.5 ²
			306	6	0.5	•	•	•	600	2.5
			307	7	0.5	•	•	•	550	2.5
			309	9	0.5	•	•	•	450	2.0
1B 1K 1T			302	2	1.3	•	•	•	1300	15.0 ³
			303	3	1.3	•	•	•	1100	12.0
			304	4	0.9	•	•	•	1200	10.0 ²
			305	5	0.9	•	•	•	1100	9.0 ²
			306	6	0.7	•	•	•	950	7.0 ²
			406	4+2	0.9/0.5	•	•	○	750	6.3/1.8
			307	7	0.7	•	•	•	850	7.0 ²
			308	8	0.7	•	•	•	850	5.0
			310	10	0.5	•	•	•	800	2.5
			312	12	0.5	•	•	•	800	2.5
			314	14	0.5	•	•	•	700	2.0
			316	16	0.5	•	•	○	700	1.5

Note: • First choice alternative
○ Special order alternative

Note: 2) rated current = 6A for socket with elbow (90°) contact for printed circuit.
3) rated current = 12A for socket with elbow (90°) contact for printed circuit.

Insert Configuration (B, K, T series)

multipole	Solder type male contact		Solder type female contact		ref.	No. of contacts	contact diameter	Contact type			Solder contact	rated current (A)
								solder	Print(straight)	Print(elbow)	contact to contact test voltage (V)	
2B 2K 2T					302	2	2.0	•	•	•	1900	25.0
					303	3	1.6	•	•	•	2100	17.0
					304	4	1.3	•	•	•	1600	15.0
					305	5	1.3	•	-	•	1600	14.0
					306	6	1.3	•	•	•	1200	12.0
					307	7	1.3	•	•	•	1600	11.0
					308	8	0.9	•	•	•	1350	10.0
					310	10	0.9	•	•	•	1300	8.0
					312	12	0.7	•	•	•	1100	7.0
					314	14	0.7	•	•	•	1000	6.5
					316	16	0.7	•	•	•	850	6.0
					318	18	0.7	•	•	•	750	5.5
					319	19	0.7	•	•	•	850	5.0
					326	26	0.5	•	•	○	850	2.0
					332	32	0.5	•	•	○	700	1.5

Note: • First choice alternative
○ Special order alternative

Note: 2) rated current = 6A for socket with elbow (90°) contact for printed circuit.
3) rated current = 12A for socket with elbow (90°) contact for printed circuit.

Insert Configuration (B, K, T series)

	multipole	Solder type male contact	Solder type female contact	Ref.	No. of contacts	contact diameter	Contact type			Solder contact to contact test voltage (V)	rated current (A)
							solder	Print(straight)	Print(elbow)		
3B 3K 3T				302	2	3.0	•	○	-	1900	25.0
				303	3	2.0	•	•	○	1700	17.0
				304	4	2.0	•	•	•	1300	15.0
				305	5	1.6	•	•	○	1700	14.0
				306	6	1.6	•	•	•	1450	12.0
				307	7	1.6	•	•	○	1550	11.0
				308	8	0.9	•	•	•	1350	10.0
				309	8/1	1.3/2.0	•	•	-	1200	6.0/15.0
				310	10	1.3	•	•	•	1100	12.0
				312	12	0.9	•	•	•	1300	9.0
				314	14	0.9	•	•	•	1050	9.0 ²
				316	16	0.9	•	•	•	1050	8.0
				318	18	0.9	•	•	•	1050	7.0
				320	20	0.7	•	•	•	900	6.0
				322	22	0.7	•	•	○	9000	5.5
				324	24	0.7	•	•	•	850	4.0
				326	26	0.7	•	•	○	850	4.0
				330	30	0.7	•	•	•	700	3.5

Note: • First choice alternative
○ Special order alternative

Note: 2) rated current = 6A for socket with elbow (90°) contact for printed circuit.
3) rated current = 12A for socket with elbow (90°) contact for printed circuit.

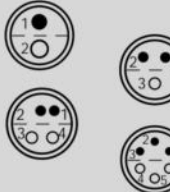
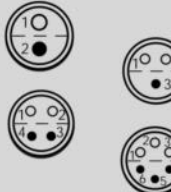
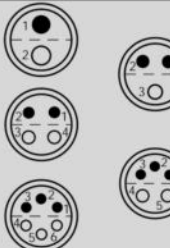
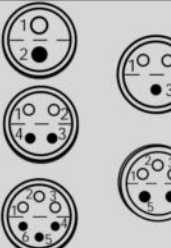
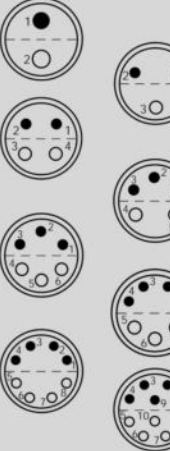
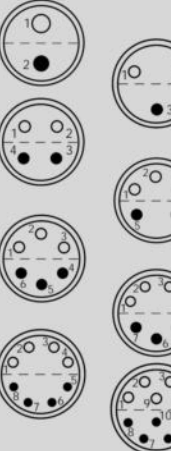
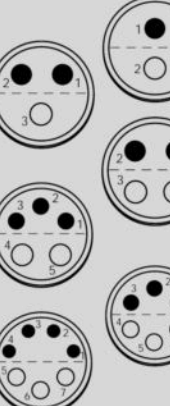
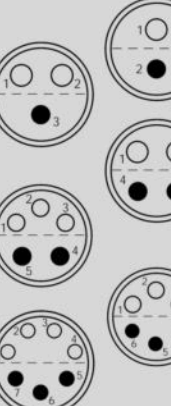
Insert Configuration (B, K, T series)

	multipole	Solder type male contact	Solder type female contact	Ref.	No. of contacts	contact diameter	Contact type			Solder contact to contact test voltage (V)	rated current (A)
							solder	Print(straight)	Print(elbow)		
4B 4K 4T				304	4	3.0	•	•	○	1350	5.0
				306	6	2.0	•	•	○	1550	1.5
				307	7	2.0	•	•	○	1600	25.0 ³
				310	10	1.6	•	•	○	1150	17.0 ³
				312	12	1.3	•	•	○	1450	15.0 ³
				316	16	0.9	•	•	•	1350	14.0 ³
				320	20	0.9	•	•	•	900	12.0
				324	24	0.9	•	•	•	1300	11.0
				330	30	0.9	•	•	•	750	10.0 ²
				340	40	0.7	•	•	•	800	8.0 ²

Note: • First choice alternative
○ Special order alternative

Note: 2) rated current = 6A for socket with elbow (90°) contact for printed circuit.
3) rated current = 12A for socket with elbow (90°) contact for printed circuit.

Insert Configuration (S, E series)

multipole	Solder type male contact 	Solder type female contact 	Ref.	series		No. of contacts	contact diameter	Contact type			contact to contact test voltage (V)	rated current (A)
				standard	watertight			solder	Print(straight)	Print(elbow)		
0S 0E			302	0S	0E	2	0.9	•	•	•	950	10 ³⁾
			303	0S	0E	3	0.7	•	•	•	900	7 ³⁾
			304	0S	0E	4	0.7	•	•	•	900	7 ³⁾
			306	0S	0E	6	0.5	•	•	○	800	2.5
1S 1E			302	1S	1E	2	1.3	•	•	•	1050	15 ³⁾
			303	1S	1E	3	0.9	•	•	•	1050	10 ³⁾
			304	1S	1E	4	0.9	•	•	•	1050	10 ³⁾
			305	1S	1E	2 3	0.9 0.7	•	•	•	1300 1300	10 ³⁾ 7 ³⁾
			306	1S	1E	6	0.7	•	•	•	1050	7 ³⁾
2S 2E			302	2S	2E	2	1.6	•	○	○	1500	20 ⁴⁾
			303	2S	2E	3	1.3	•	•	○	1350	15 ⁴⁾
			304	2S	2E	4	1.3	•	•	•	1500	15 ⁴⁾
			305	2S	2E	5	1.3	•	•	•	1350	13 ⁴⁾
			306	2S	2E	6	1.3	•	•	•	1350	12
			307	2S	2E	3 4	1.3 0.9	•	•	•	720 720	12 ³⁾ 9 ³⁾
			308	2S	2E	8	0.9	•	•	•	720	9 ³⁾
			310	2S	2E	10	0.9	•	•	•	720	7 ³⁾
3S 3E			302	3S	3E	2	2.0	•	○	-	2700	23
			303	3S	3E	3	2.0	•	○	-	1350	20
			304	3S	3E	4	2.0	•	○	-	1350	18
			305	3S	3E	2 3	2.0 1.3	•	○	-	1350 1350	18 14
			306	3S	3E	6	1.3	•	•	-	1890	14
			307	3S	3E	7	1.3	•	•	-	900	12

Note: • First choice alternative
○ Special order alternative

注: 3) rated current = 6A for socket with elbow (90°) contact for printed circuit.

4) rated current = 12A for socket with elbow (90°) contact for

Insert Configuration (S, E series)

multipole	Solder type male contact	Solder type female contact	Ref.	series		No. of contacts	contact diameter	Contact type			contact to contact test voltage (V)	rated current (A)
				standard	watertight			solder	Print(straight)	Print(elbow)		
3S 3E			308	3S	3E	8	1.3	●	●	○	900	10
			310	3S	3E	10	1.3	●	●	●	900	9
			312	3S	3E	12	0.9	●	●	●	1350	8
			313	3S	3E	13	0.9	●	●	○	1350	8
			314	3S	3E	14	0.9	●	●	●	1350	7
			316	3S	3E	16	0.9	●	●	●	900	7
			318	3S	3E	18	0.9	●	●	○	900	6

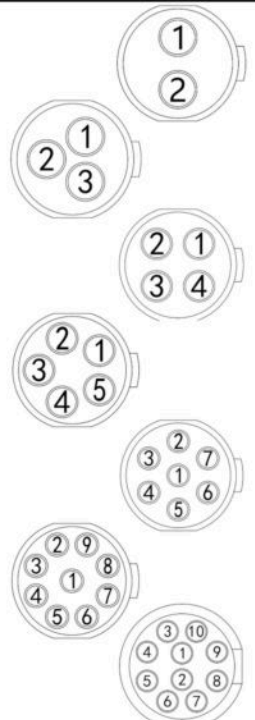
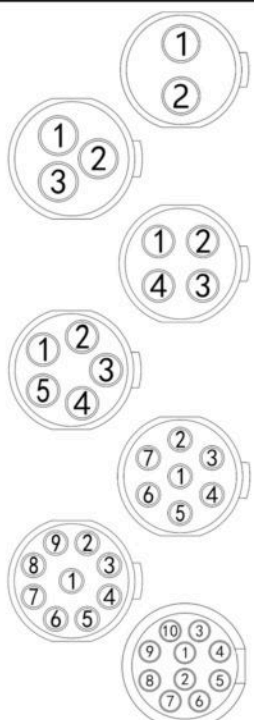
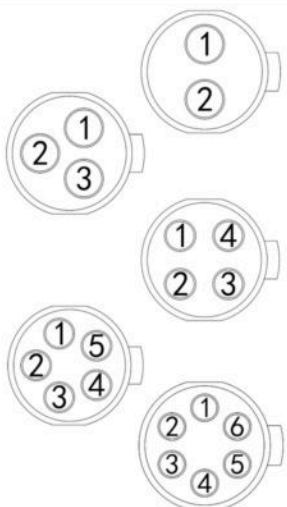
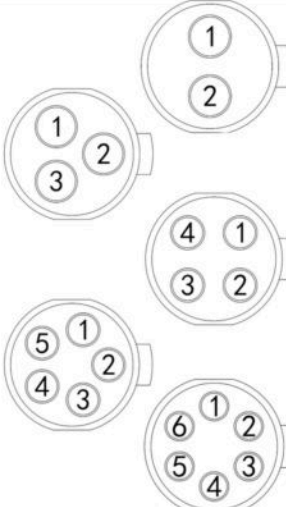
Note: ● First choice alternative
○ Special order alternative

Insert Configuration (1P series)

	multipole	Solder type male contact	Solder type female contact	Ref.	No. of contacts	contact diameter	Contact type			Solder contact contact to contact test voltage (V)	rated current (A)
							solder	Print(straight)	Print(elbow)		
1P				M0.2	2	1.3	•	•	•	1080	10.0
				M0.4	4	0.9	•	•	•	1080	8.0
				M0.5	5	0.9	•	•	•	945	7.0
				M0.6	6	0.7	•	•	•	945	6.0
				M0.7	7	0.7	•	•	•	945	5.0
				M0.8	8	0.7	•	•	•	945	5.0
				M0.9	9	0.5	•	•	•	765	3.0
				M1.0	10	0.5	•	•	•	765	3.0
				M1.4	14	0.5	•	•	•	540	2.0

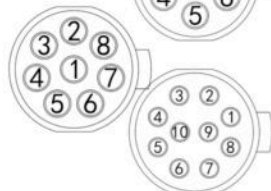
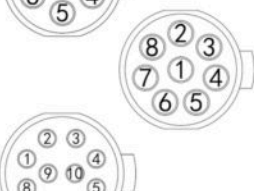
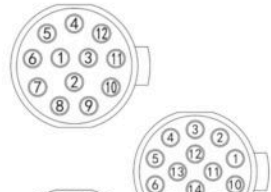
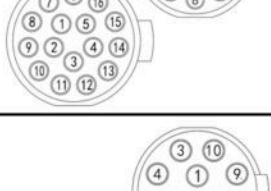
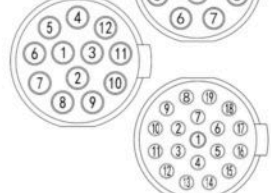
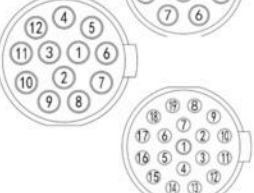
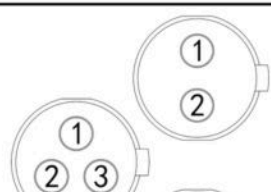
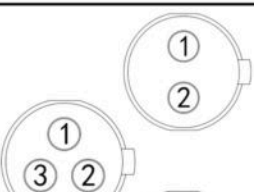
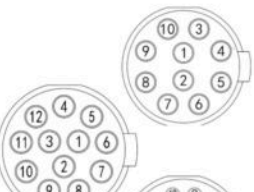
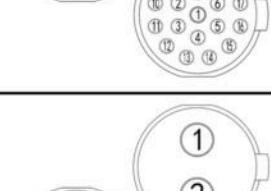
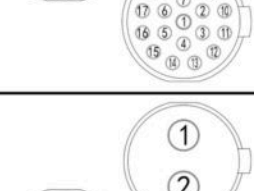
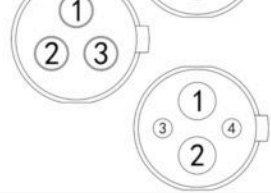
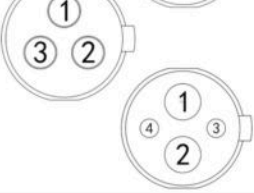
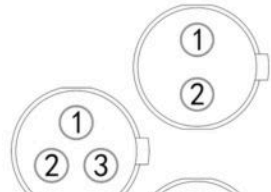
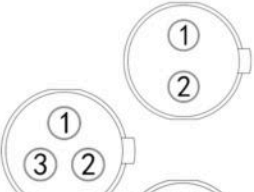
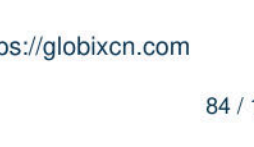
Note: • First choice alternative
○ Special order alternative

Insert Configuration (F series)

	Solder type male contact 	Solder type female contact 	Ref.	No. of contacts	contact diameter	Contact type			Solder contact contact to contact test voltage (V)	rated current (A)
						solder	Print(straight)	Print(elbow)		
0F			051	2P	0.9	•	•	•	875V	10A
			052	3P	0.9	•	•	•	750V	8A
			053	4P	0.7	•	•	•	750V	7A
			054	5P	0.7	•	•	•	750V	6.5A
			056	7P	0.5	•	•	•	500V	2.5A
			059	9P	0.5	•	•	•	500V	2A
			060	10P	0.5	•	•	•	400V	1.5A
1F			051	2P	1.3	•	•	•	1000V	12A
			052	3P	1.3	•	•	•	1000V	12A
			053	4P	0.9	•	•	•	875V	10A
			054	5P	0.9	•	•	•	875V	9A
			056	6P	0.7	•	•	•	875V	7A

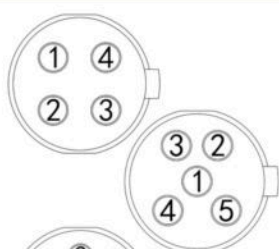
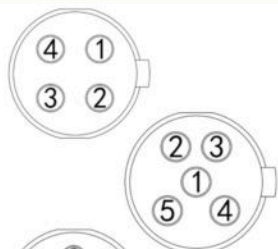
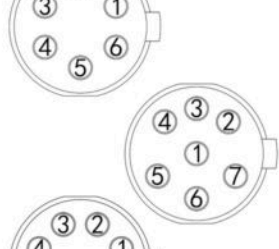
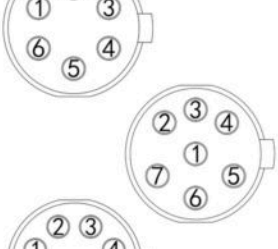
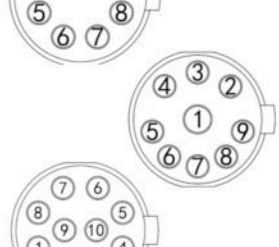
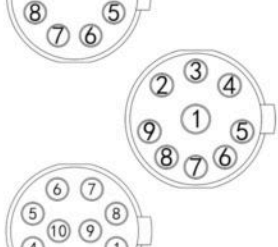
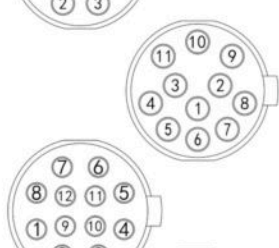
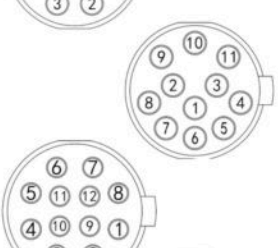
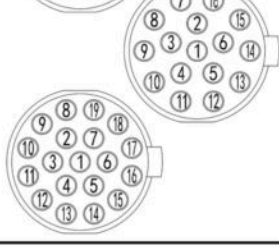
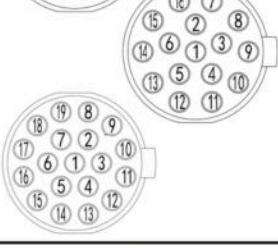
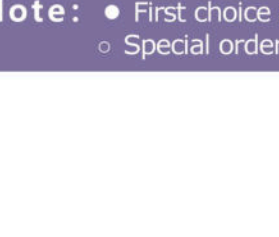
Note: • First choice alternative
○ Special order alternative

Insert Configuration (F, N series)

multipole	Solder type male contact	Solder type female contact	Ref.	No. of contacts	contact diameter	Contact type			Solder contact	rated current (A)
						solder	Print(straight)	Print(elbow)	contact to contact test voltage (V)	
1F			057	7P	0.7	•	•	•	875V	7A
			058	8P	0.7	•	•	•	500V	5A
			060	10P	0.5	•	•	•	400V	2.5A
			062	12P	0.5	•	•	•	400V	2A
			064	14P	0.5	•	•	•	400V	2A
			066	16P	0.5	•	•	•	350V	1.5A
AF			010	10P	0.7	•	•	•	875V	6A
			012	12P	0.7	•	•	•	875V	6A
			019	19P	0.5	•	•	•	500V	2.5A
2F			051	2P	1.6	•	•	•	1000V	15A
			040	3P	1.6	•	•	•	1000V	15A
			087	4P (2+2)	2.3 0.9	•	•	•	1200V 875V	26A 3A

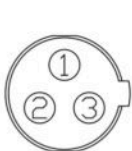
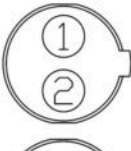
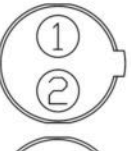
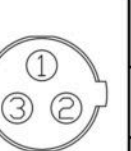
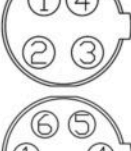
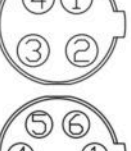
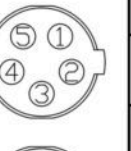
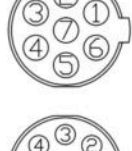
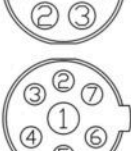
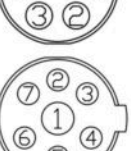
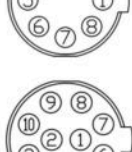
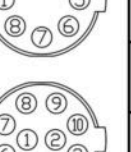
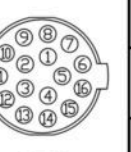
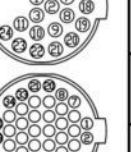
Note: • First choice alternative
○ Special order alternative

Insert Configuration (F, N series)

multipole	Solder type female contact		Ref.	No. of contacts	contact diameter	Contact type			Solder contact contact to contact test voltage (V)	rated current (A)
						solder	Print(straight)	Print(elbow)		
2F 2N			037	4P	1.3	•	•	•	875V	14A
			053	5P	1.3	•	•	•	875V	12A
			065	6P	0.9	•	•	•	875V	10A
			054	7P	0.9	•	•	•	875V	10A
			066	8P	0.9	•	•	•	875V	10A
			055	9P	1.3 0.9	•	•	•	875V	8A
			060	10P	0.9	•	•	•	875V	10A 6A
			056	11P	0.9	•	•	•	875V	7A
			062	12P	0.7	•	•	•	750V	6A
			086	16P	0.7	•	•	•	750V	5A
			092	19P	0.7	•	•	•	750V	4.5A

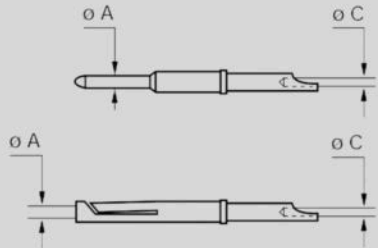
Note: • First choice alternative
○ Special order alternative

Insert Configuration (F, N series)

multipole	Solder type male contact		Solder type female contact		Ref.	No. of contacts	contact diameter	Contact type			Solder contact	rated current (A)
			solder	Print(straight)				Print(elbow)	contact to contact test voltage (V)			
3F 3N					087	2P	3.0	•	•	•	1000V	25A
					052	3P	2.0	•	•	•	1000V	23A
					053	4P	2.0	•	•	•	875V	16A
					064	5P	1.6	•	•	•	875V	14A
					065	6P	1.6	•	•	•	875V	12A
					066	7P	1.6	•	•	•	875V	10A
					054	7P (6+1)	2.0 1.3	•	•	•	1000V 875V	16A 6A
					057	8P	1.3	•	•	•	875V	9A
					067	8P (9-1)	1.3	•	•	•	875V	9A
					062	10P	1.3	•	•	•	875V	8A
					069	12P	1.3	•	•	•	875V	7A
					104	13P (10+3)	1.3 0.7	•	•	•	875V 750V	8A 4A
					058	15P	0.9	•	•	•	875V	7A
					060	16P	0.9	•	•	•	875V	7A
					056	16P (12+4)	1.6 0.7	•	•	•	875V 750V	9A 4A
					038	18P (19-1)	0.9	•	•	•	875V	6A
					086	19P	0.9	•	•	•	750V	5A
					093	24P	0.7	•	•	•	750V	4A
					102	27P	0.7	•	•	•	750V	3A
					122	40P	0.5	•	•	•	400V	1A

Note: • First choice alternative
○ Special order alternative

Contacts

Contact type	Ref.		contact		conductor						notes
					solid			stranded			
	male	female	φA (mm)	φC (mm)	AWG Max.	section Max. (mm²)	AWG		Section(mm²)		
							Min.	Max.	Min.	Max.	
	A	L	0.35	0.40	28	0.09	-	30	-	0.05	●
			0.5a	0.40 a	28	0.09	-	30	-	0.05	
			0.5	0.45 d	28	0.09	-	28	-	0.09	
			0.7	0.80	22	0.34	-	22 b	-	0.34	
			0.9	0.80 c	22 c	0.34 c	-	22 bc	-	0.34 c	
			1.3	1.00	20	0.50	-	20 b	-	0.50	
			1.6	1.40	16	1.00	-	18	-	1.00	
			2.0	1.80	14	1.50	-	16	-	1.50	
			3.0	2.70	10	4.00	-	12	-	4.00	

Note:

a for 00 multipole series.

b for a given AWG, the diameter of some stranded conductor designs is larger than the solder cup diameter. Make sure that the maximum conductor diameter is smaller than φC .

c for 0B.302/0B.303 and 0K.302/0K.303, $\varphi C=1.0\text{mm}$, AWG max. is 20, section max. is 0.50mm²

d for 00 and 1B/1K series, considering the tolerance, $\varphi C_{\min}=0.43\text{mm}$

- First choice alternative
- Special order alternative

collets (B Series)

D type



Ref.		Collet φ		Cable φ	
type	code	φA	φB	Max.	Min.
00	D 22	2.2	-	2.2	1.4
	D 27	2.7	-	2.7	>2.2
	D 35	3.5	-	3.5	>2.7
0B	D 22	2.1	-	2.2	1.4
	D 32	3.2	-	3.2	>2.2
	D 42	4.2	-	4.2	>2.2
	D 52	5.2	-	5.2	>2.2
1B	D 56	5.6	-	5.6	>5.2
	D 42	4.2	-	4.2	3.1
	D 52	5.2	-	5.2	>4.2
	D 62	6.2	-	6.2	>5.2
	D 72	7.2	-	7.2	>6.2
2B	D 76	7.6	-	7.6	>7.2
	D 42	4.2	-	4.2	>3.2
	D 52	5.2	-	5.2	>4.2
	D 62	6.2	-	6.2	>5.2
	D 72	7.2	-	7.2	>6.2
	D 82	8.2	-	8.2	>7.2
	D 92	9.2	-	9.2	>8.2
	D 99	9.9	-	9.9	>9.2

D type



Ref.		Collet φ		cable φ	
type	code	φA	φB	Max.	Min.
3B	D 62	6.2	-	6.2	4.9
	D 72	7.7	-	7.7	>6.2
	D 92	9.2	-	9.2	>7.7
	D 102	10.2	-	10.0	>9.2
4B	D 112	11.0	-	11.0	>10.1
	D 122	12.0	-	11.9	10.8
	D 102	10.8	-	10.5	9.1
	D 122	12.3	-	12.0	10.6
	D 132	13.8	-	13.5	12.1
	D 152	15.3	-	15.0	13.6
	D 162	16.3	-	16.0	15.1

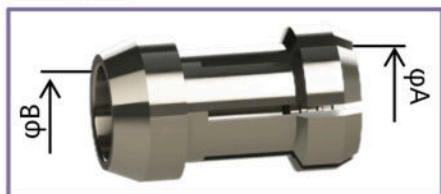
collets (K, T, E series)



Ref.		collet φ		Cable φ	
Type	code	φA	φB	Max.	Min.
0K 0T 0E	C 32	3.2	-	3.0	2.6
	C 42	4.2	-	4.0	3.6
	C 45	5.2	-	4.5	4.1
	C 52	5.2	-	5.0	4.4
1K 1T 1E	C 32	3.2	-	3.0	2.6
	C 42	4.2	-	4.0	3.6
	C 52	5.2	-	5.0	4.6
	C 62	6.2	-	6.0	5.6
	C 72	7.2	-	7.0	6.6
2K 2T 2E	C 42	4.2	-	4.0	3.6
	C 52	5.2	-	5.0	4.6
	C 62	6.2	-	6.0	5.6
	C 72	7.2	-	7.0	6.6
	C 82	8.2	-	8.0	7.6
3K 3T 3E	C 65	7.2	-	6.5	6.1
	C 72	7.2	-	7.0	6.6
	C 82	8.2	-	8.0	7.6
	C 92	9.2	-	9.0	8.6
	C 102	10.2	-	10.0	9.6
	C 112	11.2	-	10.5	10.1

collets (S series)

C type



C type



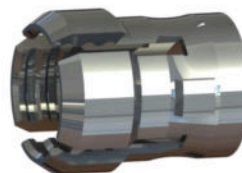
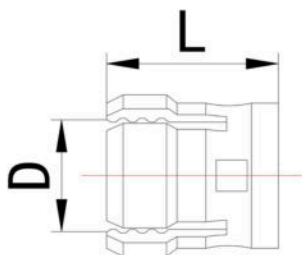
00S

Ref.		Collet ϕ		Cable ϕ	
type	code	ϕA	ϕB	Max.	Min.
C	22	2.2	-	2.2	1.7
	27	2.7	-	2.7	>2.2
	35	3.1	2.7	3.1	>2.7
C	22	2.2	-	2.2	1.3
	32	3.2	-	3.2	>2.2
	37	3.7	-	3.7	>3.2
	44	4.4	3.7	4.4	>3.7
C	22	2.2	-	5.6	>5.2
	32	3.2	-	4.2	3.1
	42	4.2	-	5.2	>4.2
	52	5.2	-	6.2	>5.2
	57	5.7	-	7.2	>6.2
	62	6.2	-	7.6	>7.2
C	22	2.2	-	2.2	1.4
	32	3.2	-	3.2	>2.2
	42	4.2	-	4.2	>3.2
	52	5.2	-	5.2	>4.2
	57	5.7	5.2	5.7	>5.2
	62	6.2	5.2	6.2	>5.7

3S

Ref.		Collet ϕ		Cable ϕ	
type	code	ϕA	ϕB	Max.	Min.
C	42	4.2	7.7	4.2	2.6
C	57	5.7	7.7	5.7	4.3
C	72	7.2	7.7	7.2	5.8
C	87	8.7	8.7	8.7	7.3
C	97	9.7	9.0	9.7	8.8
C	11	10.5	9.0	10.5	9.8

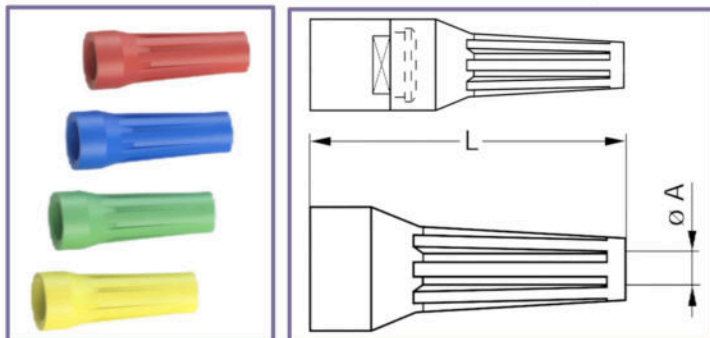
Collets (F series)



series	code	collet		cable	
		D	L	Max.	Min.
0F	32	φ3.2	8.3	φ3.2	φ2.2
	42	φ4.2	8.3	φ4.2	φ3.2
	52	φ5.2	8.3	φ5.2	φ4.2
	62	φ6.2	8.3	φ6.2	φ5.2
1F	42	φ4.2	10.0	φ4.2	φ3.2
	52	φ5.2	10.0	φ5.2	φ4.2
	62	φ6.2	10.0	φ6.2	φ5.2
	72	φ7.2	10.0	φ7.2	φ6.2
AF	52	φ5.2	11.0	φ5.2	φ4.2
	62	φ6.2	11.0	φ6.2	φ3.2
	72	φ7.2	11.0	φ7.2	φ6.2
	82	φ8.2	11.0	φ8.2	φ7.2

series	code	collet		cable	
		D	L	Max.	Min.
2F	62	φ6.2	11.0	φ6.2	φ5.2
	72	φ7.2	11.0	φ7.2	φ6.2
	82	φ8.2	11.0	φ8.2	φ7.2
	92	φ9.2	11.0	φ9.2	φ8.2
3F	62	φ6.2	9.5	φ6.2	φ5.2
	72	φ7.2	9.5	φ7.2	φ6.2
	82	φ8.2	9.5	φ8.2	φ7.2
	92	φ9.2	9.5	φ9.2	φ8.2
	102	φ10.2	9.5	φ10.2	φ9.2
	112	φ11.2	9.5	φ11.2	φ10.2

Bend relief (Polyurethane)



A bend relief made from thermoplastic polyurethane elastomer (Desmopan 786) can be fitted over LEMO plugs and sockets that are supplied with nut for fitting such bend relief. They are available in 13 different colors that match with the GRA insulating washers. Use the part numbers shown below to order this accessory separately.



Material: TPU (Polyurethane elastomer)
Temperature range in dry atmosphere: -40°C ~ +80°C

Part Number	series	Bend relief		Cable ϕ	
		A	L	Min.	Max.
3.GMA.00B.032.UG	00	3.2	22.0	3.2	3.5
3.GMA.0B.032.UG	0B 0S 0E 0K 0T	3.2	24.0	3.2	3.5
3.GMA.0B.035.UG		3.5	24.0	3.5	3.9
3.GMA.0B.042.UG		4.2	24.0	4.2	4.5
3.GMA.0B.045.UG		4.5	24.0	4.5	5.2
3.GMA.0B.052.UG		5.2	24.0	5.2	5.5
3.GMA.0B.055.UG		5.5	24.0	5.5	5.9
3.GMA.1B.032.UG	1B 1S 1E 1K 1T	3.2	30.0	3.2	3.5
3.GMA.1B.035.UG		3.5	30.0	3.5	3.9
3.GMA.1B.042.UG		4.2	30.0	4.2	4.5
3.GMA.1B.045.UG		4.5	30.0	4.5	4.9
3.GMA.1B.052.UG		5.2	30.0	5.2	5.5
3.GMA.1B.055.UG		5.5	30.0	5.5	5.9
3.GMA.1B.062.UG		6.2	30.0	6.2	6.5
3.GMA.1B.065.UG		6.5	30.0	6.5	6.9
3.GMA.1B.072.UG		7.2	30.0	7.2	7.5
3.GMA.2B.042.UG	2B 2S 2E 2K 2T	4.2	36.0	4.2	4.5
3.GMA.2B.045.UG		4.5	36.0	4.5	4.9
3.GMA.2B.052.UG		5.2	36.0	5.2	5.5
3.GMA.2B.055.UG		5.5	36.0	5.5	5.9
3.GMA.2B.062.UG		6.2	36.0	6.2	6.5
3.GMA.2B.065.UG		6.5	36.0	6.5	6.9
3.GMA.2B.072.UG		7.2	36.0	7.2	7.5
3.GMA.2B.075.UG		7.5	36.0	7.5	7.9
3.GMA.2B.082.UG		8.2	36.0	8.2	8.5
3.GMA.2B.092.UG		9.2	36.0	9.2	9.5

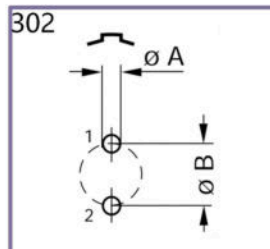
Part Number	series	Bend relief		Cable ϕ	
		A	L	Min.	Max.
3.GMA.3B.065.UG	3B 3S 3K 3T	6.5	42.0	6.5	6.9
3.GMA.3B.072.UG		7.2	42.0	7.2	7.5
3.GMA.3B.082.UG		8.2	42.0	8.2	8.5
3.GMA.3B.092.UG		9.2	42.0	9.2	9.5
3.GMA.3B.102.UG		10.2	42.0	10.2	10.5
3.GMA.3B.112.UG		11.2	42.0	11.2	11.5
3.GMA.3B.122.UG		12.2	42.0	12.2	12.5

Note: all dimensions are in millimeter.

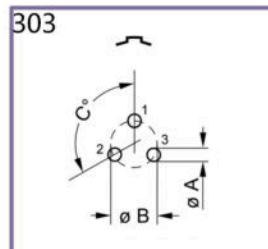
Ref.	color	Ref.	color
G	grey	C	pink
R	red	D	purple
R1	Dark red	S	orange
A	blue	M	brown
N	black	J	yellow
T	transparent	B	white
V	green		

PCB drilling pattern

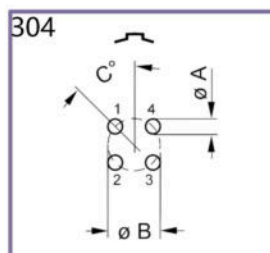
Fixed socket with straight print contact (B - K - T series)



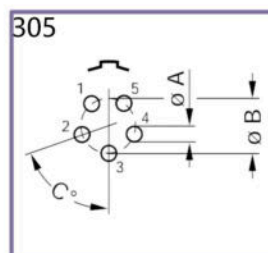
series	dimensions	
	A	B
00	0.6	1.2
0B-0K-0T	0.8	2.2
1B-1K-1T	0.8	2.8
2B-2K-2T	0.8	4.4



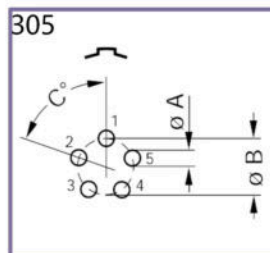
series	dimensions		
	A	B	C
00	0.6	1.35	120°
0B-0K-0T	0.8	2.3	120°
1B-1K-1T	0.8	3	120°
2B-2K-2T	0.8	4.6	120°
3B-3K-3T	0.8	5.6	120°



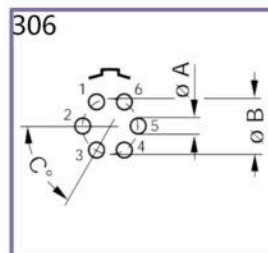
series	dimensions		
	A	B	C
00	0.6	1.6	45°
0B-0K-0T	0.6	2.5	45°
1B-1K-1T	0.8	3.1	45°
2B-2K-2T	0.8	5	45°
3B-3K-3T	0.8	6.2	45°



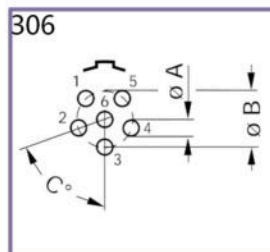
series	dimensions		
	A	B	C
00	0.5	1.7	72°



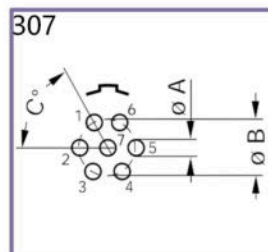
series	dimensions		
	A	B	C
0B-0K-0T	0.6	2.8	72°
1B-1K-1T	0.8	3.4	72°
2B-2K-2T	0.8	5.2	72°
3B-3K-3T	0.8	6.7	72°



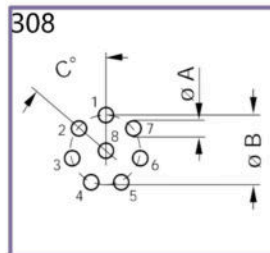
series	dimensions		
	A	B	C
0B-0K-0T	0.6	3.0	60°
1B-1K-1T	0.8	3.7	60°



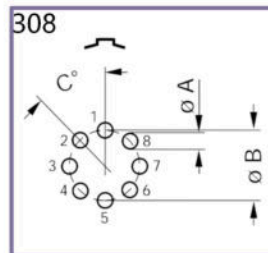
series	dimensions		
	A	B	C
2B-2K-2T	0.8	5.6	72°
3B-3K-3T	0.8	7.1	72°



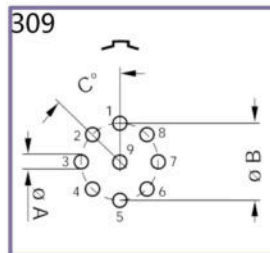
series	dimensions		
	A	B	C
0B-0K-0T	0.6	3.0	60°
1B-1K-1T	0.8	3.7	60°
2B-2K-2T	0.8	5.8	60°
3B-3K-3T	0.8	7.08	60°



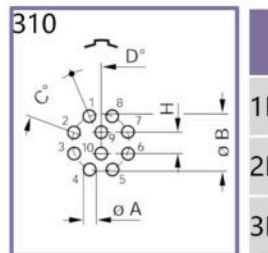
series	dimensions		
	A	B	C
0B-0K-0T	0.8	3.8	51°26'



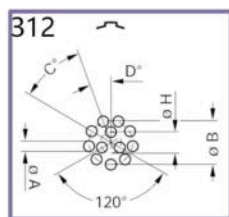
series	dimensions		
	A	B	C
0B-0K-0T	0.6	3.0	60°
1B-1K-1T	0.8	3.7	60°
2B-2K-2T	0.8	5.8	60°
3B-3K-3T	0.8	7.08	60°



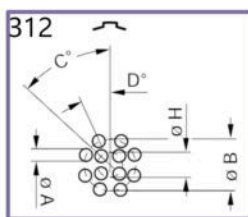
series	dimensions		
	A	B	C
0B-0K-0T	0.6	3.2	45°
3B-3K-3T	0.8	7.5	45°



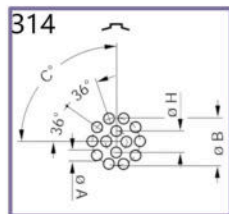
series	dimensions				
	A	B	C	D	H
1B-1K-1T	0.6	3.95	45°	22°30'	1.4
2B-2K-2T	0.8	6.3	45°	22°30'	2.15
3B-3K-3T	0.8	7.9	45°	22°30'	2.8



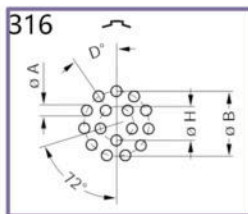
series	dimensions				
	A	B	C	D	H
0B-0T	0.5	3.3	40°	20°	1.25



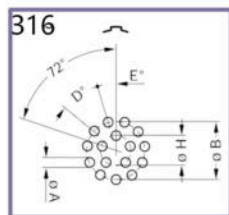
series	dimensions				
	A	B	C	D	H
2B-2K-2T	0.8	6.5	45°	22°30'	2.8
3B-3K-3T	0.8	8.2	45°	22°30'	3.4



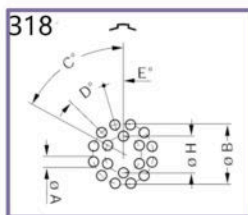
series	dimensions			
	A	B	C	H
1B-1K-1T	0.6	4.4	90°	1.9
2B-2K-2T	0.8	6.5	90°	2.65
3B-3K-3T	0.8	8.2	90°	3.4



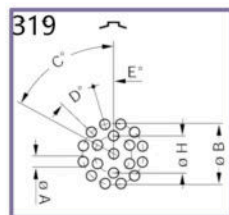
series	dimensions			
	A	B	D	H
1B-1K-1T	0.6	4.4	32°44'	2.0



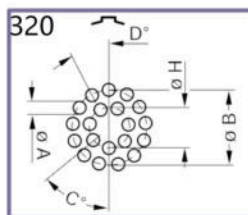
series	dimensions				
	A	B	D	E	H
1B-1K-1T	0.8	6.6	32°44'	16°44'	3.10
2B-2K-2T	0.8	8.4	32°44'	16°44'	3.86
4B-4K	0.6	10.5	32°44'	16°44'	5.0



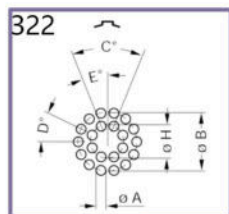
series	dimensions				
	A	B	C	D	H
1B-1K-1T	0.8	6.7	60°	30°	3.5
2B-1K-1T	0.8	8.4	60°	30°	4.34



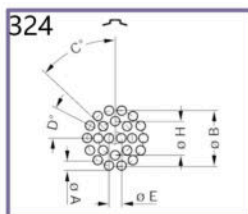
series	dimensions				
	A	B	C	D	H
2B-2K-2T	0.8	6.7	60°	30°	3.5



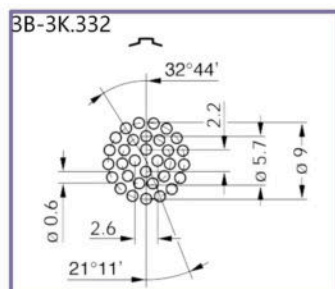
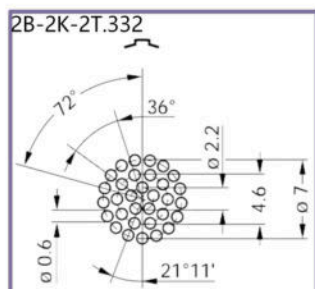
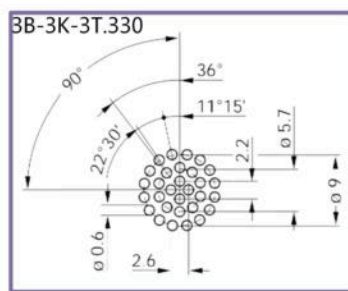
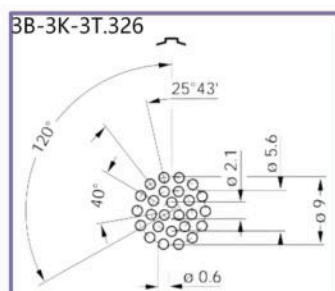
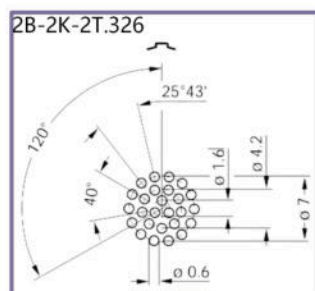
series	dimensions				
	A	B	C	D	H
3B-3K-3T	0.6	8.62	51°26'	27°42'	4.78
4B-4K	0.6	11.0	51°26'	27°42'	6.0



series	dimensions				
	A	B	C	D	H
3B-3K-3T	0.6	8.8	45°	25°43'	22°30'



series	dimensions			
	A	B	C	D
3B-3K-3T	0.6	8.8	45°	25°43'
4B-4K	0.6	11.1	45°	25°43'



Note: all views are from the side of the socket.

Length of straight print contacts

For socket E●●

	type	dimensions	
		φC	L
00	302/303/304	0.5	3.0
0K	302/303	0.7	3.2
0B	304/305/306/307/309	0.5	3.2
0T	312	0.4	3.0
1K	302/303/304/305/306/307/308	0.7	3.0
1B	310/314/316	0.5	4.0
1T	312	0.4	3.0
2K	302/303/304/305/306/307/308/310/312/314/316/318/319	0.7	3.0
2B	326/332	0.5	3.0
2T	326/332	0.5	3.0
3K	302/303/304/305/306/307/308/310/312/314/316/318/319	0.7	3.0
3B	320/322/324/326/330/332	0.5	5.0
3T	320/322/324/326/330/332	0.5	5.0
4B	316/320/324/330/340/348	0.5	5.0

Note: This table does not apply for socket H●●; socket EH● and plugs FA●/FW●.

Fixed socket for printed circuit (B series)

Holes for fixing the housing

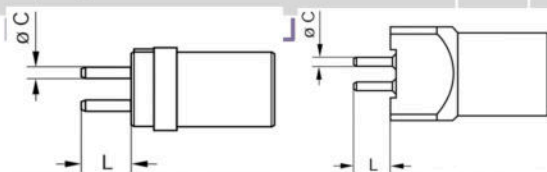
GB-ZYG / GB-ZZG		series	dimensions	
$\varnothing B$	$\varnothing A$		A	B
		00	0.8a	5.08
		0B	1.7b	7.62
		1B	1.7b	7.62
		2B	1.7b	10.16

Note: Mounting torque for screws: 0.1 Nm.
1) to solder. 2) to screw.

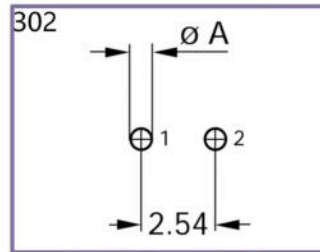
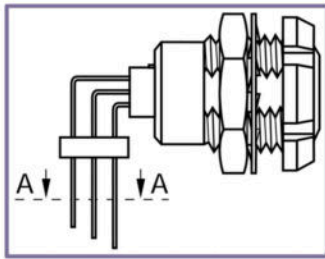
Length of straight print contacts

For socket GB-ZZG / GB-ZYG

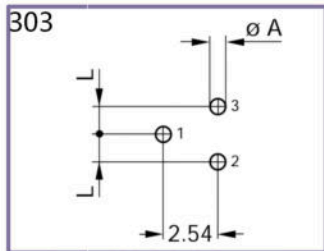
	type	dimensions	
		GB-ZZG / GB-ZYG	
		φC	L
0B	302/303	0.7	4.5
1B	304/305	0.5	4.5
2B	306/307/309	0.5	3.0
	302/303/304/305/306/307/308	0.7	3.8
	310/314/316	0.5	3.8
	302/303/304/305/306/307/308/310/312/314/316/318/319	0.7	5.5



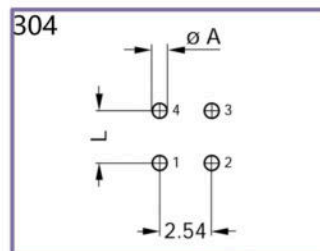
Fixed socket with elbow print contact (B - K - T series)



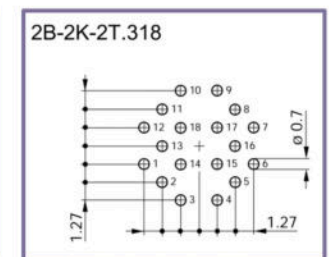
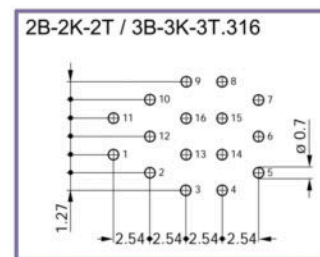
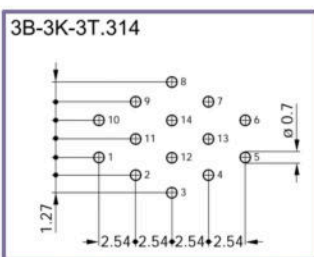
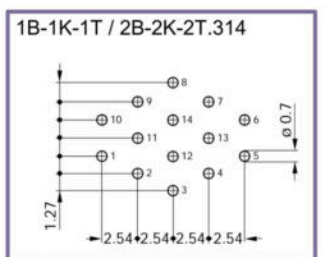
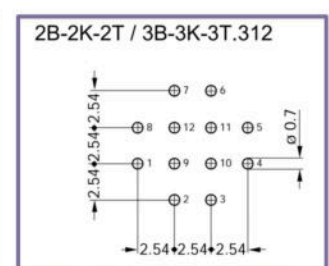
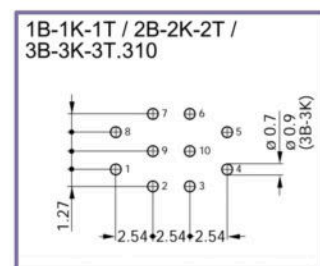
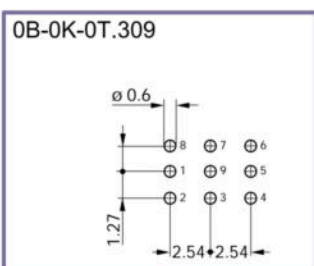
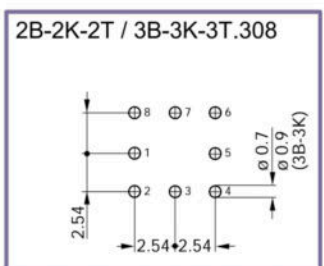
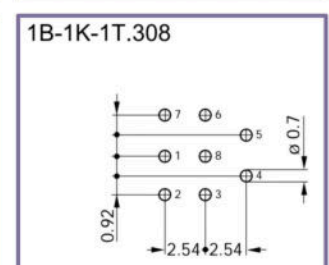
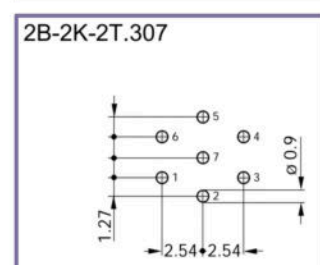
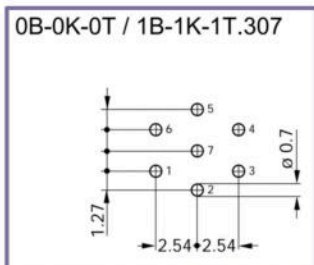
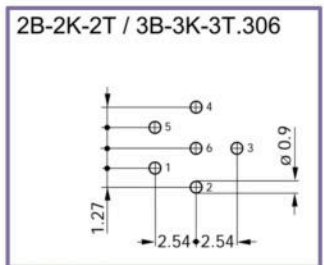
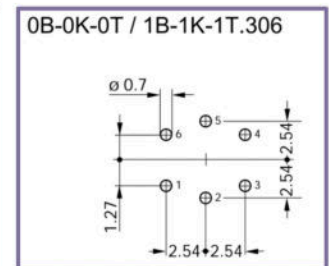
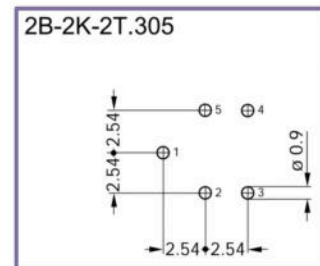
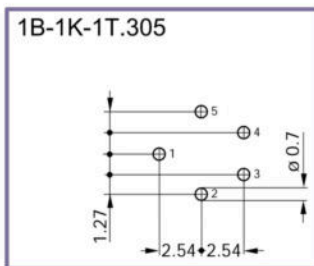
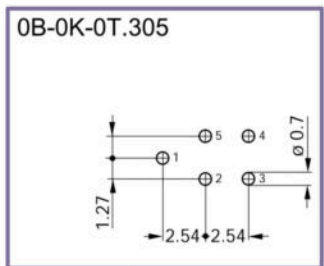
series	dimensions
	A
00	0.6
0B-0K-0T	0.7
1B-1K-1T	0.9
2B-2K-2T	0.9



series	dimensions	
	A	L
00	0.6	1.27
0B-0K-0T	0.7	1.27
1B-1K-1T	0.9	1.27
2B-2K-2T	0.9	2.54

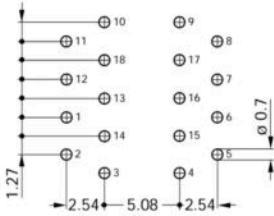


series	dimensions	
	A	L
00	0.6	2.54
0B-0K-0T	0.7	2.54
1B-1K-1T	0.7	2.54
2B-2K-2T	0.9	3.5
3B-3K-3T	0.9	2.54

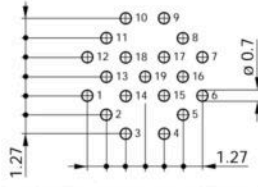


Fixed socket with elbow print contact (B-K-T series)

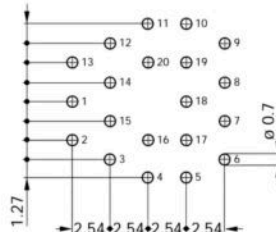
3B-3K-3T.318



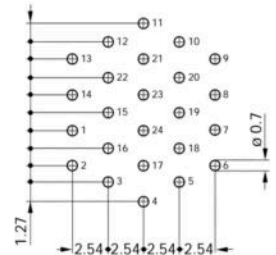
2B-2K-2T.319



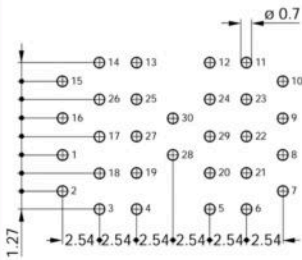
3B-3K-3T.320



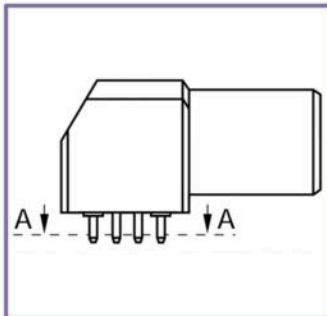
3B-3K-3T.324



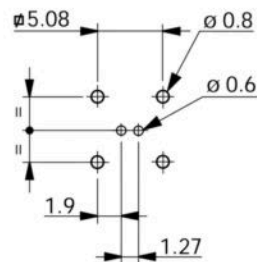
3B-3K-3T.330



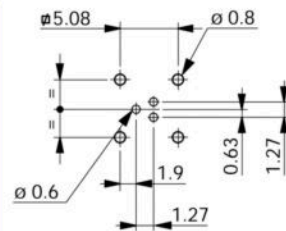
Elbow socket (90°) for printed circuit (B series)



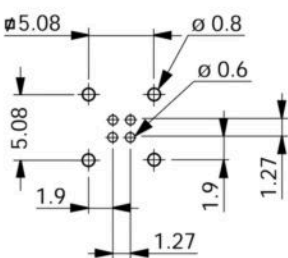
GB-ZPG.00.302



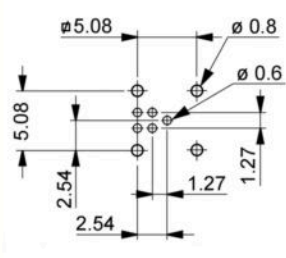
GB-ZPG.00.303



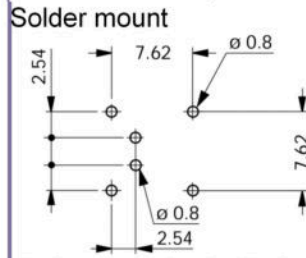
GB-ZPG.00.304



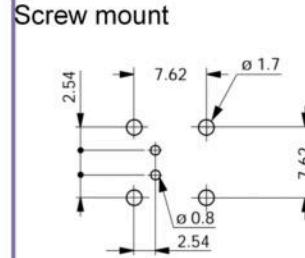
GB-ZPG.00.305



GB-ZPG / GB-ZXG (0B/1B.302)

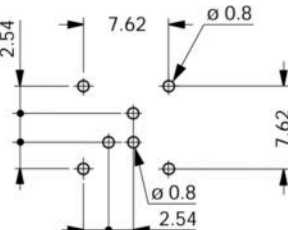


GB-ZPG / GB-ZXG (0B/1B.302)



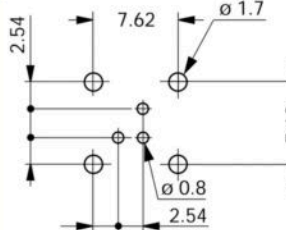
GB-ZPG / GB-ZXG (0B/1B.303)

Solder mount



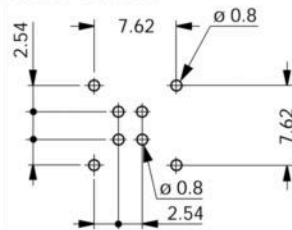
GB-ZPG / GB-ZXG (0B/1B.303)

Screw mount



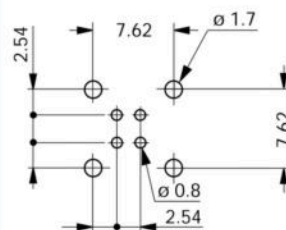
GB-ZPG / GB-ZXG (0B/1B.304)

Solder mount



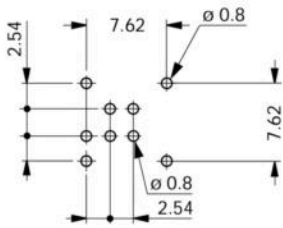
GB-ZPG / GB-ZXG (0B/1B.304)

Screw mount

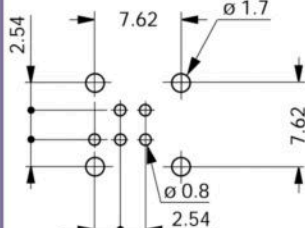


Elbow socket (90°) for printed circuit (B series)

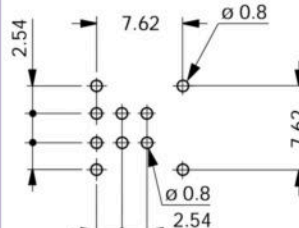
GB-ZPG / GB-ZXG (0B/1B.305)
Solder mount



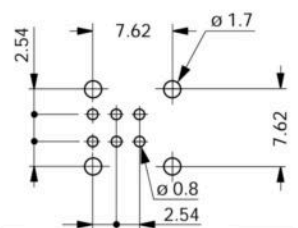
GB-ZPG / GB-ZXG (0B/1B.305)
Screw mount



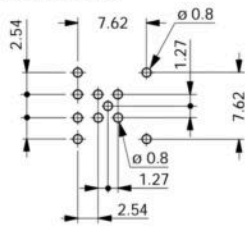
GB-ZPG / GB-ZXG (0B/1B.306)
Solder mount



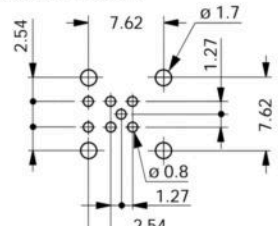
GB-ZPG / GB-ZXG (0B/1B.306)
Screw mount



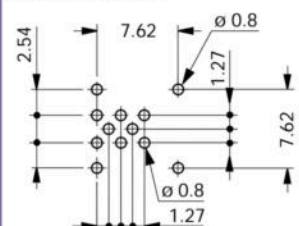
GB-ZPG / GB-ZXG (0B/1B.307)
Solder mount



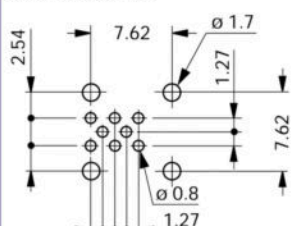
GB-ZPG / GB-ZXG (0B/1B.307)
Screw mount



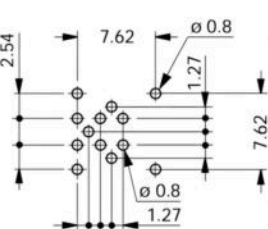
GB-ZPG / GB-ZXG (1B.308)
Solder mount



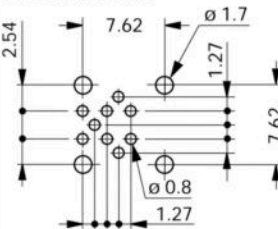
GB-ZPG / GB-ZXG (1B.308)
Screw mount



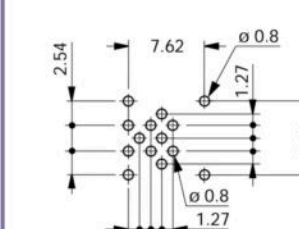
GB-ZPG / GB-ZXG (0B.309)
Solder mount



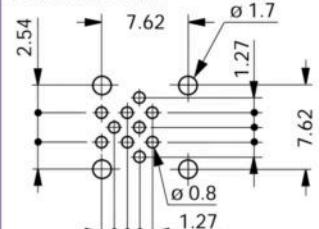
GB-ZPG / GB-ZXG (0B.309)
Screw mount



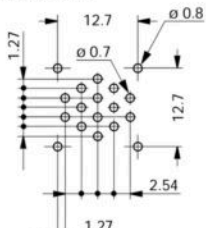
GB-ZPG / GB-ZXG (1B.310)
Solder mount



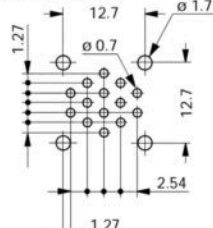
GB-ZPG / GB-ZXG (1B.310)
Screw mount



GB-ZPG.1B.314
Solder mount



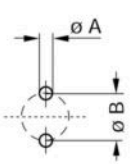
GB-ZPG.1B.314
Screw mount



GB-ZPG.00.303.HLN and XBG.00.303.HLN

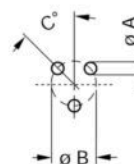
Fixed socket with straight print contact (S-E series)

302



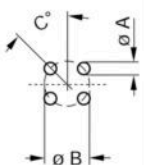
series	dimensions	
	A	B
0S	0.8	2.2
1S-1E	0.8	3.0
2S	0.8	4.5

303



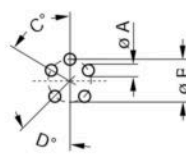
series	dimensions		
	A	B	C
0S	0.6	2.8	45°
1S-1E	0.8	3.5	45°
2S	0.8	5.5	60°

304



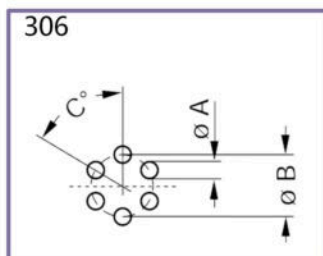
series	dimensions			
	A	B	C	D
0S	0.6	2.8	45°	
1S-1E	0.8	3.5	45°	
2S	0.8	5.0	45°	

305

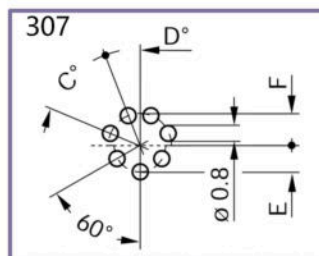


series	dimensions			
	A	B	C	D
1S-1E	0.8	3.5	60°	45°
2S	0.8	5.5	60°	60°

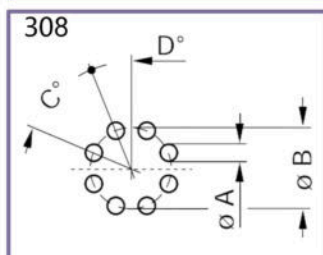
Fixed socket with straight print contact (S-E series)



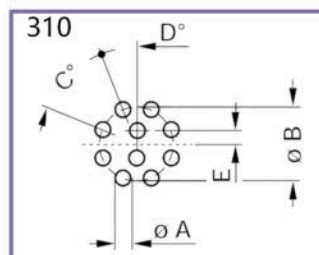
series	dimensions		
	A	B	C
1S-1E	0.8	3.5	60°
2S	0.8	5.5	60°
3S	0.8	6.5	60°



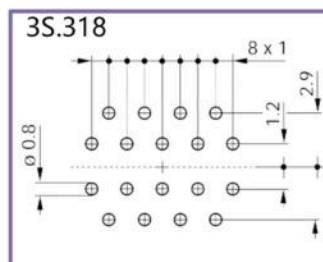
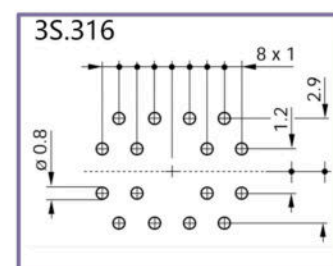
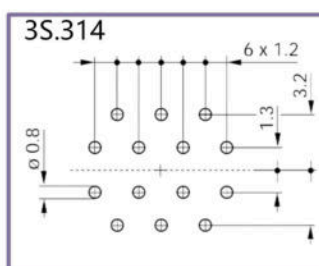
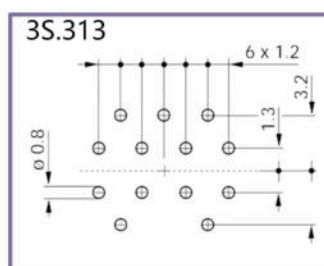
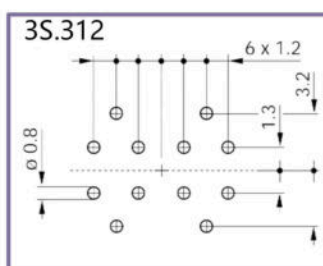
series	dimensions			
	C	D	E	F
2S	45°	22°30'	2.75	3.25
3S	45°	22°30'	3.25	3.9



series	dimensions			
	A	B	C	D
2S	0.8	6.5	45°	22°30'
3S	0.8	7.8	45°	22°30'



series	dimensions				
	A	B	C	D	E
2S	0.8	6.5	45°	22°30'	1.25
3S	0.8	7.8	45°	22°30'	1.5



Note: all views are from the side of the socket.

Length of straight print contacts (for socket E●●)

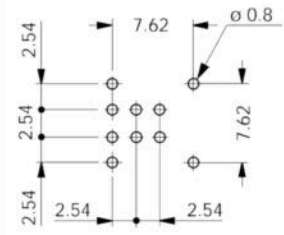
	type	dimensions	
		φC	L
0S	302	0.7	3.0
	303/304	0.5	3.0
1S 1E	302	0.7/1.5	3.0/5.0
	303/304/305	0.7	3.0
	305/306	0.5	3.0

	type	dimensions	
		φC	L
2S	303/304/305/306/307/308/310	0.7	3.0
3S	305/306/307/308/310 312/313/314/316/318	0.7	3.0

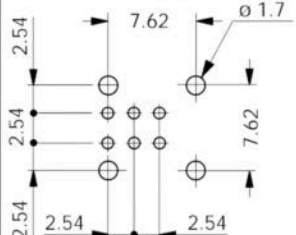
Note: This table does not apply for HGP and EHP sockets and for FAA plugs.

Elbow socket (90°) for printed circuit (S series)

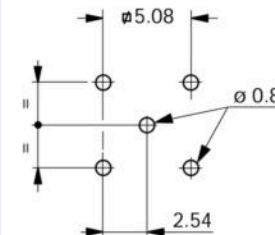
EPL - EXP Solder mount



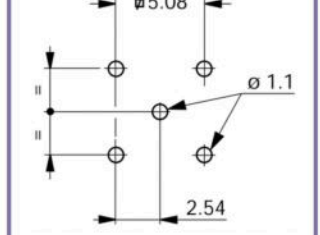
EPL - EXP Screw mount



EPL.00.113

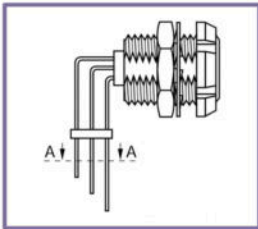


EPL.0S.116

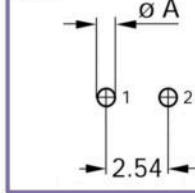


Note: all dimensions are in millimeters.

Fixed socket with elbow print contact (S-E series)

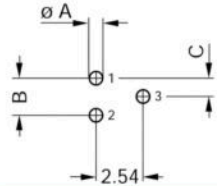


302



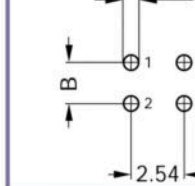
series	dimensions
	A
0S	0.7
1S-1E	0.9

303



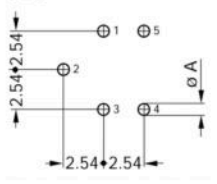
series	dimensions		
	A	B	C
0S	0.7	2.0	1.0
1S-1E	0.7	2.48	1.24

304



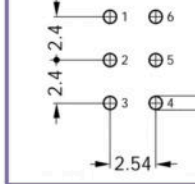
series	dimensions	
	A	B
0S	0.7	2.0
1S-1E	0.7	2.48
2S	0.9	3.5

305



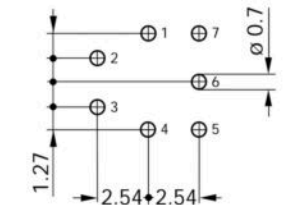
series	dimensions
	A
1S-1E	0.7
2S	0.9

306

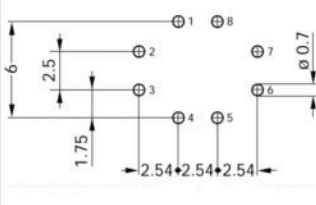


series	dimensions
	A
1S-1E	0.7
2S	0.9

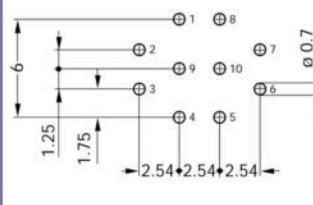
2S.307



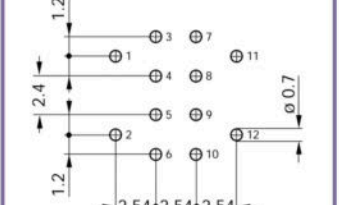
2S.308



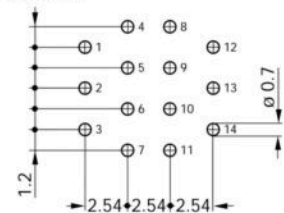
2S/3S.310



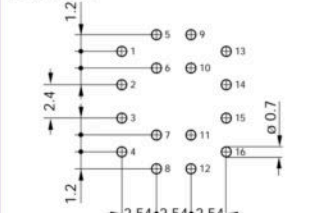
3S312



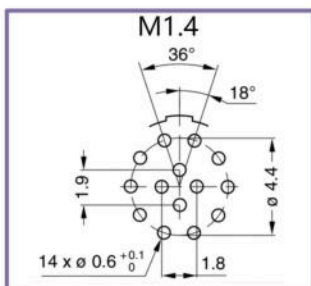
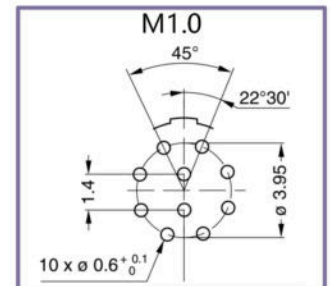
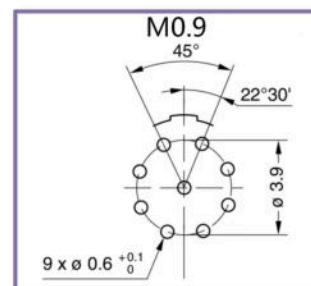
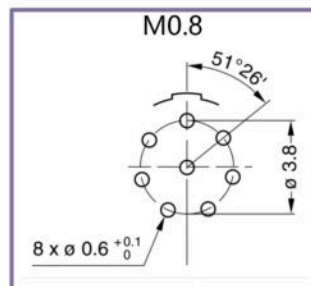
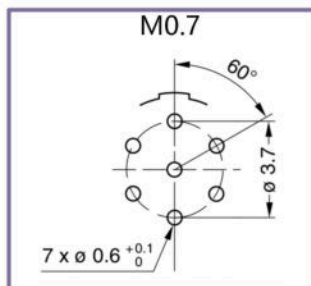
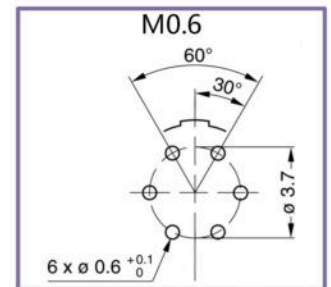
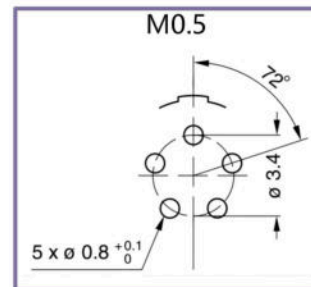
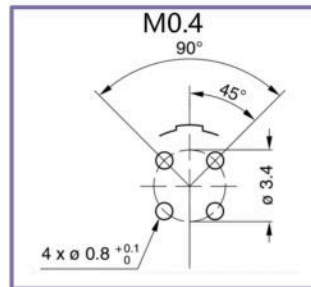
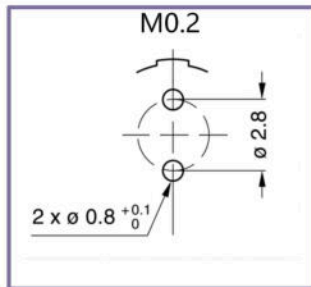
3S.314



3S.316



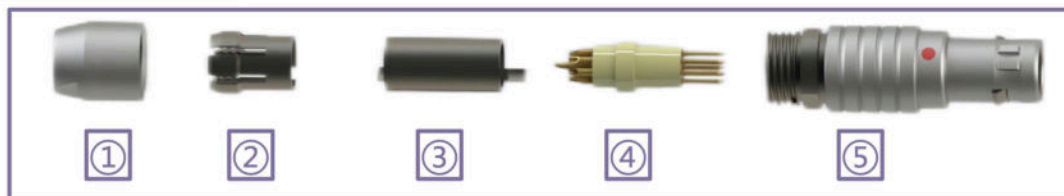
For 1P series



Note: all dimensions are in millimeters.

Assembly Instruction

For B series connectors



- 1: slide back nut① and collet② over the cable.
- 2: Strip cable and wire, pre-tinning of strands recommended, solder each wire to the corresponding contact ④;
- 3: Bend cable shield outwards, assemble half shells③ with the insulator④
- 4: put the assembled cable into the plug-housing ⑤, if needed, secure thread with locking glue.
- 5: screw back nut ① on the plug

For E series



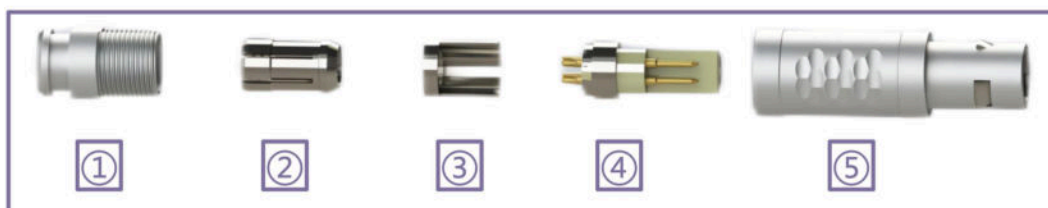
- 1: slide back nut① , collet②, EMI ring ③⑤ and seal ring④ over the cable.
- 2: Strip cable and wire, pre-tinning of strands recommended, solder each wire to the corresponding contact ⑦
- 3: Bend cable shield outwards, assemble half shells③ with the insulator ⑦
- 4: Slide the EMI-Ring against the sleeve and clamp the shield between it.
- 5: put the assembled cable into the plug-housing ⑧ , if needed, secure thread with locking glue.
- 6: screw back nut ① on the plug

For K series



- 1: slide back nut① , collet②, EMI ring ③⑤ and seal ring④ over the cable.
- 2: Strip cable and wire, pre-tinning of strands recommended, solder each wire to the corresponding contact ⑦
- 3: Bend cable shield outwards, assemble half shells③ with the insulator ⑦
- 4: Slide the EMI-Ring against the sleeve and clamp the shield between it.
- 5: put the assembled cable into the plug-housing ⑧ , if needed, secure thread with locking glue.
- 6: screw back nut ① on the plug

For S series



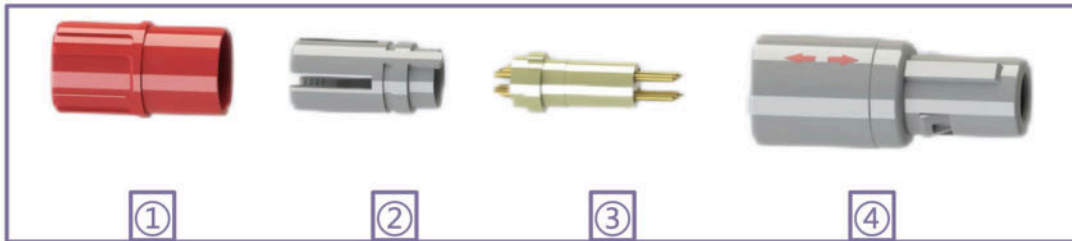
- 1: slide back nut① and collet② over the cable.
- 2: Strip cable and wire, pre-tinning of strands recommended, solder each wire to the corresponding contact ④;
- 3: Bend cable shield outwards, assemble insulator carrier③ with the insulator
- 4: put the assembled cable into the plug-housing ⑤; if needed, secure thread with locking glue.
- 5: screw back nut ① on the plug

For T series



- 1: slide back nut① , collet②, EMI ring ③⑤ and seal ring④ over the cable.
2. Strip cable and wire, pre-tinning of strands recommended, solder each wire to the corresponding contact ⑦
- 3: Bend cable shield outwards, assemble half shells③ with the insulator ⑦
- 4: Slide the EMI-Ring against the sleeve and clamp the shield between it.
- 5: put the assembled cable into the plug-housing ⑧ , if needed, secure thread with locking glue.
- 6: screw back nut ① on the plug

For 1P series



- 1: slide back nut① and collet② over the cable.
2. Strip cable and wire, pre-tinning of strands recommended, solder each wire to the corresponding contact ③ ;
- 3: put the assembled cable into the plug-housing ④
- 4: screw back nut ① on the plug

For F series



- 1: slide back nut① , collet②, EMI ring ③⑤ and seal ring④ over the cable.
2. Strip cable and wire, pre-tinning of strands recommended, solder each wire to the corresponding contact ⑦
- 3: Bend cable shield outwards, assemble half shells③ with the insulator ⑦
- 4: Slide the EMI-Ring against the sleeve and clamp the shield between it.
- 5: put the assembled cable into the plug-housing ⑧ , if needed, secure thread with locking glue.
- 6: screw back nut ① on the plug