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Push Pull Self-Locking Connector Manufacturer

RENHOTEC GROUP CO., LTD

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B series

05 - 16

Description:

Push pull self locking, IP50, Omni-directional shielding, a variety of positioning pins, multi-color recognition.

Characteristics:

Multi-contact (2-32 contacts), mixed loading needle contact, electrical mixing, photoelectric mixing, high pressure, single/multi-coaxial, single/multi-gas path, vacuum seal.

Series: 00B,0B,1B,2B,3B,3.5B,4B. Size: M7,M9,M12,M15,M18,M20.

More



Description:

Push pull self locking, IP66/IP68, waterproof, Omnidirectional shielding, a variety of positioning pins, multi-

Characteristics:

Multi-contact (2-32 contacts), mixed loading needle contact, electrical mixing, photoelectric mixing, high pressure, single/multi-coaxial, single/multi-gas path, vacuum seal.

Series: 0K,1K,2K,3K,4K,5K.

Size: M14,M16,M20,M24,M30,M45.

Sseries

Description:

Push pull self locking, IP50, Omni-directional shielding, half moon type insulation contact positioning, multi-color

Characteristics:

Single contact, multi-contact, mixed loading needle contact, photoelectric mixed loading, high voltage, single/multi-

Series: 00S,0S,1S,2S,3S.

Size: M7,M9,M12,M15,M18.

More.

Fseries

Description:

Push pull self locking, IP66/IP68, waterproof, Omnidirectional shielding, a variety of positioning pins, multicolor recognition.

Characteristics:

Multi-contact (2-32 contacts), mixed loading needle contact, photoelectric mixing, high pressure, vacuum seal.

Series: 0F,1F,1.5F,2F,3F.

Size: M9,M14,M16,M18.







P series

36 - 46

Description:

Push pull self locking, IP50, a variety of positioning pins, multi-color recognition.

Characteristics:

Multi-contact (2-32 contacts), mixed loading needle contact, electrical mixing, photoelectric mixing, single/multigas path.

Series: 0P 1P 2P Size: M10,M14,M17.

More

47 - 50

W series

Screw coupling system, IP68, underwater, Omni-directional shielding, a variety of positioning pins, multi-color

Characteristics:

Description:

Multi-contact (2-32 contacts), mixed loading needle contact, electrical mixing, photoelectric mixing, single/multigas path.

Series: 0W,1W,2W,3W.

Size: M12,M14,M16,M20.



Tseries

51 - 54

Push pull self locking, IP66/68, waterproof, Omni-directional shielding, a variety of positioning pins, multi-color

Characteristics:

Multi-contact (2-32 contacts), mixed loading needle contact, electrical mixing, photoelectric mixing, high pressure

Series: 0T,1T,2T,3T. Size: M9,M12,M15,M18.

More.



HR10A series

Description:

Push-pull Self-latching-IP50,Screw coupling-IP65~68,Omni-directional shielding.

Characteristics:

Multi-contact, Mini.

Series: NO1,NO.2,NO.3.

Size: M8,M11,M14.



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Insert configuration 61–66

Description of the sequence of male and female needle contact stitches.

Description of solder cup matching cable diamete. Needle contact voltage and current parameters.



PCB drilling pattern 67-72

Fixed socket for printed circuit. Holes for fixing the housing. Fixed socket with straight print contact. Elbow socket (90°) for printed circuit. Fixed socket with elbow print contact.



Cable assembly

73-74

Cables are fixed into push pull connectors with cable collet Suitable for B,K,S,P,T,W,F series plugs



Spare parts

75-77

Plug/Socket caps:Dust,Waterproof. Insulating washers: Sockets or plugs mounted on panels can be fitted with insulating washers. The nine colours available combined with those for the bend reliefs makes

colour coding possible. Bend relief:Different colors can be distinguished.



Plug assembly instructions 78-79

Assembly sequence instruction of plug outer shell,insulator,earthing cone,o-ring,collet and collet nut.



Single contact coaxial connector 80

Protection index (mated):IP 50 The connection method:Push-pull Self-lachting Contact:single contact



Wire harness processing scheme 81-84

Cable harness cable customization processing scheme: adapter line, power line, DB9, DB15, DB25, DC, DNC, SMA, crocodile clip, cable customization, a multi-point cable production. Customized processing cable display.



Testing and production equipment 85-86

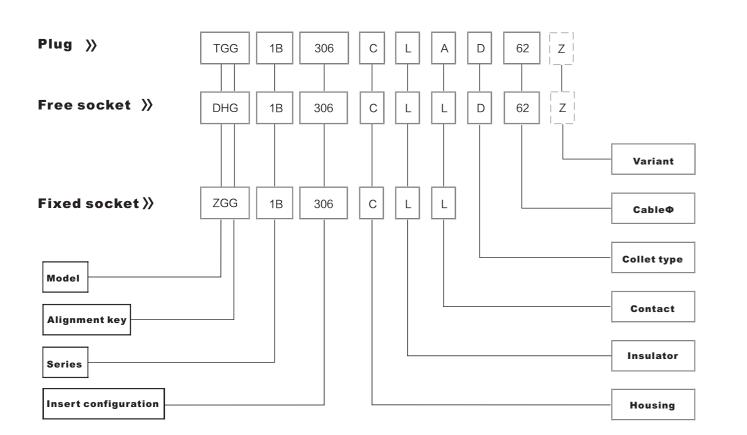
wire harness testing machine, injection molding machine, tensile tester, stripping machine, winding machine, etc



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Part Numbering System of B series



B series

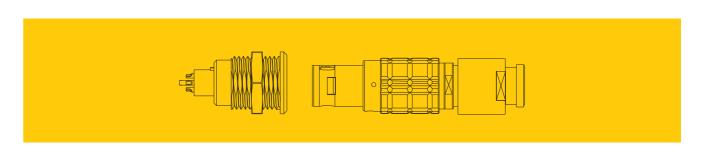
B series connectors provide the following main features:

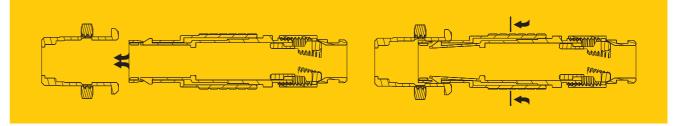
- Security of the Push-Pull self-latching system.
- Multipole types 2 to 32 contacts.
- Solder or print contacts (straight or elbow).
- High packing density for space savings.
- Multiple key options to avoid cross mating.
- Keying system («G» key standard) of similar connectors for connector alignment.
- 360° screening for full EMC shielding.

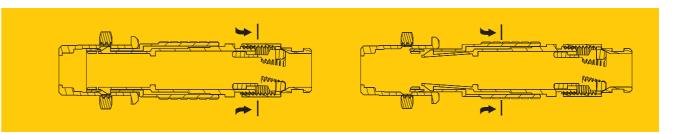
B series metal connector technical characteristics:

- Mechanical and Climatical.
- Endurance:> 5000 cycles.
- Humidity:up to 95% at 60°C.
- Temperature range: 55°C, + 250°C.
- Resistance to vibrations:10-2000 Hz, 15g.
- Shock resistance:100g, 6ms.
- Salt spray corrosion test:> 48h.
- Protection index (mated):IP 50.

Product appearance and Push-Pull self-latching system





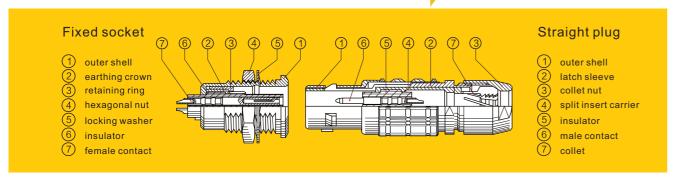


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Straight plug with cable collet:

- TGG.1B.306.CLAD62 = Straight plug with key (G) and cable collet, 1B series, multipole type with 6 contacts, outer shell in chrome-plated brass, PPS insulator, male solder contacts, D type collet for 6.0mm diameter cable.
- DHG.1B.306.CLLD62Z = Free socket,, with key (G), with cable collet, 1B series, multipole type with 6 contacts, outer shell in chrome-plated brass, PPS insulator, female solder contacts, D type collet for 6.0mm diameter cable.
- ZGG.1B.306.CLL = Fixed socket, nut fixing, with key (G), 1B series, multipole type with 6 contacts, outer shell in chrome-plated brass, PPS extended insulator, female solder contacts.

Part Section Showing Internal Components



TGG Straight plug

Key (G) or keys (A...M and R), cable collet

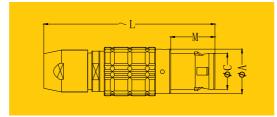
Refe	rence	Dim	m)			
Series	Model	Α	L	M	С	
00B	TGG	6.4	29.0	8.0	5.0	
0B	TGG	9.5	36.0	10.0	7.0	
1B	TGG	12.0	43.8	11.0	8.9	
2B	TGG	15.0	51.0	12.0	12.0	
3B	TGG	17.8	61.2	15.0	15.0	
4B	TGG	25.0	75.0	18.0	20.0	

TGG Straight plug

Key (G) or keys (A...M and R), cable collet and nut for fitting a bend relief $% \left\{ \mathbf{R}^{\prime}\right\} =\mathbf{R}^{\prime}$

Refe	rence	Dim	ensio	ns (mr	n)	
Series	Model	Α	L	M	С	
00B	TGG	6.4	36.0	8.0	5.0	
0B	TGG	9.5	39.0	10.0	7.0	
1B	TGG	12.0	47.0	11.0	8.9	
2B	TGG	15.0	55.5	12.0	12.0	
3B	TGG	17.8	64.0	15.0	15.0	







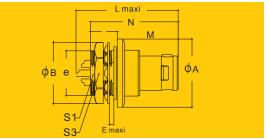


TWG Fixed plug

Nut fixing, key (G) or keys (A...M and R)

Refer	ence	Dim	ensi	ons (mm)						
Series	Model	Α	В	е	Ε	L	M	Ν	S1	S3
0B	TWG	13.8	12.4	M9×0.6	2.0	25.3	17.4	22.4	7.8	11.0
1B	TWG	18.0	15.8	M12×1.0	3.0	24.9	17.0	24.8	10.5	14.0
2B	TWG	19.5	19.2	M15×1.0	5.2	28.6	18.0	27.3	13.5	17.0



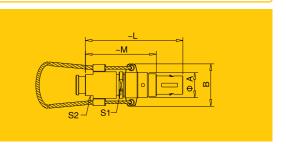




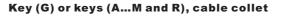
Key (G) or keys (A...M and R), cable collet and lanyard release

Refe	rence	Dimensions (mm)								
Series	Model	Α	В	L	M	N	S1	S2		
0B	TNG	9.5	15.5	36.0	26.0	140	9.0	8.0		
1B	TNG	12.0	18.0	43.0	32.0	140	10.0	9.0		
2B	TNG	15.0	21.0	49.0	37.0	160	13.0	12.0		
3B	TNG	18.0	25.0	58.0	43.0	190	15.0	14.0		



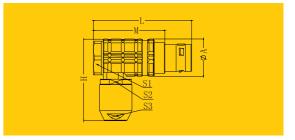


THG Elbow (90°) plug



Refer	ence	Din	nensi	ons (m	m)				
Series	Model	Α	D	Н	L	М	S1	S2	S3
00B	THG	7.0	5.5	20.0	25.0	17.0	7.0	6.0	5.5
0B	THG	11.0	7.0	31.6	32.0	21.6	10.0	7.0	8.0
1B	THG	13.5	9.5	30.5	38.5	27.2	11.0	9.0	10.0
2B	THG	16.5	10.0	41.5	36.0	32.0	12.0	12.0	13.0
3B	THG	19.0	10.0	50.0	43.0	35.0	15.0	14.0	15.0



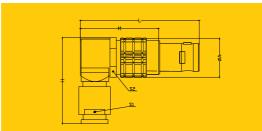


TSG Anglissimo right angle plug



Key (G) or keys (A...M and R), cable collet

Refer	ence	Din	nensi	ons (m	m)			
Series	Model	Α	Н	L	М	S1	S2	
0B	TSG	10.0	24.6	30.3	20.3	7.5	8.9	
3B	TSG	19.0	28. 0	50.0	35.0	14.0	16	

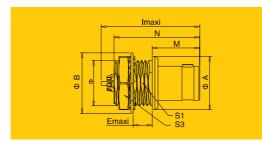


TAG Fixed plug



Non-latching, nut fixing, key (G) or keys (A...M and R)

Refer	rence	Din	nensi	ions (mı	m)				
Series	Model	Α	В	е	Е	L	M	N1)	S1
0B	TAG	10.0	12.4	M9x0.6	4.2	20.8	11.2	18.9	8.2
1B	TAG	14.0	15.8	M12x1.0	5.4	25.2	12.5	21.6	10.5
2B	TAG	18.0	19.2	M15x1.0	6.0	28.7	13.8	23.9	13.5
3B	TAG	22.0	25.0	M18x1.0	5.8	32.1	17.0	30.2	16.5

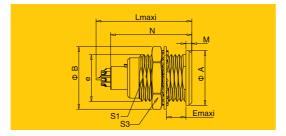


ZGG Fixed socket



Nut fixing, key (G) or keys (A...M and R)

Refe	rence	Di	men	sions (ı	mm)					
Series	Model	Α	В	е	E	L	М	N1)	S1	S3
00B	ZGG	8.0	10.2	M7x0.5	6.0	15.5	1.0	13.7	6.3	9.0
0B	ZGG	10.0	12.4	M9x0.6	7.0	20.7	1.2	19.1	8.2	11.0
1B	ZGG	14.0	15.8	M12x1.0	7.5	23.0	1.5	21.1	10.5	14.0
2B	ZGG	18.0	19.2	M15x1.0	8.5	26.7	1.8	24.6	13.5	17.0
3B	ZGG	22.0	25.0	M18x1.0	11.5	30.7	2.0	28.1	16.5	22.0
4B	ZGG	28.0	34.0	M25x1.0	12.0	35.7	2.5	34.1	23.5	30.0

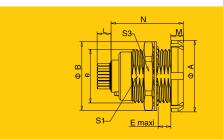


ZCG Fixed socket with two nuts

Key (G) or keys (A...F and R) and straight contact for printed circuit(back panel mounting)

Reference Dimensions (mm)										
Series	Model	Α	В	е	Е	L	М	N1	S1	S3
0B	ZCG	12.0	12.4	M9×0.6	5.5	20.7	2.5	19.1	8.2	11.0
1B	ZCG	16.0	15.8	M12×1.0	6.0	23.0	3.5	21.1	10.5	14.0
2B	ZCG	20.0	19.2	M15×1.0	6.5	26.7	3.5	24.6	13.5	17.0
3B	ZCG	24.0	25.0	M18×1.0	9.0	30.7	4.5	28.1	16.5	22.0



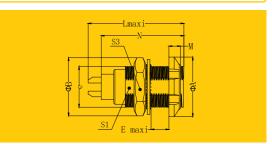


ZCG Fixed socket with two nuts

Key (G) or keys (A...M and R) (back panel mounting)

Refe	rence	Di	imer	nsions (mm)					
Series	Model	Α	В	е	Е	L	М	N1	S1	S3
0B	ZCG	12.0	12.4	M9×0.6	5.5	20.7	2.5	19.1	8.2	11.0
1B	ZCG	16.0	15.8	M12×1.0	6.0	23.0	3.5	21.1	10.5	14.0
2B	ZCG	20.0	19.2	M15×1.0	6.5	26.7	3.5	24.6	13.5	17.0
3B	ZCG	24.0	25.0	M18×1.0	9.0	30.7	4.5	28.1	16.5	22.0



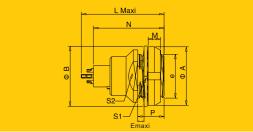


ZEG Fixed socket

Nut fixing, key (G) or keys (A...M and R) (back panel mounting)

Refe	rence	Di	mens	sions (n	nm)					
Series	Model	Α	В	е	Ε	L	M	N1)	Р	S1
0B	ZEG	12.0	12.5	M9x0.6	2.4	20.7	2.5	19.1	6.3	8.2
1B	ZEG	16.0	16.0	M12x1.0	6.5	23.0	3.5	21.1	11.0	10.5
2B	ZEG	20.0	20.0	M15x1.0	3.0	26.7	3.5	24.6	9.0	13.5
3B	ZEG	24.0	25.0	M18x1.0	5.0	30.7	4.5	28.1	12.0	16.5



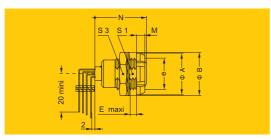


ZCG Fixed socket with two nuts

Key (G) or keys (A...F) with elbow (90°) contact for printed circuit(back panel mounting)

Refer	ence	Dir	nensi	n)					
Series	Model	Α	В	е	Е	M	N	S1	S3
0B	ZCG	12.0	12.4	M9x0.6	5.0	2.5	19. 1	8.2	11.0
1B	ZCG	16.0	15.8	M12x1.0	6.0	3.5	21. 1	10.5	14.0
2B	ZCG	20.0	19.2	M15x1.0	6.5	3.5	24. 6	13.5	17.0
3B	ZCG	24.0	25.0	M18x1.0	9.0	4.5	28. 1	16.5	22.0





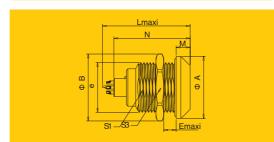
Nut fixing, key (G) or keys (A...M and R), watertight or vacuumtight Series Model A B e E L M P S1 S2 0B MEG 12 13 M9x0.6 5.5 20.2 2.5 9.0 8.2 10

MGG Fixed socket

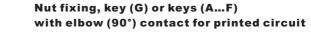
Nut fixing, key (G) or keys (A...M and R), watertight or vacuumtight

Refe	rence	Dir	nensi	ons (mn	n)				
Series	Model	Α	В	е	Ε	L	М	S1	S3
0B	MGG	13.0	12.4	M9x0.6	7.0	20.2	3.0	8.2	11.0
1B	MGG	18.0	15.8	M12x1.0	7.0	26.6	4.5	10.5	14.0
2B	MGG	20.0	19.2	M15x1.0	8.0	31.6	4.0	13.5	17.0







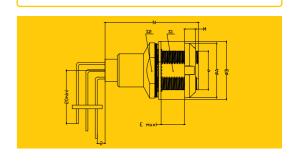


ZEG Fixed socket

MEG Fixed socket

Refe	rence	Di	mens	sions (r	nm)					
Series	Model	Α	В	е	Ε	L	М	N1)	Р	S1
0B	ZEG	12	12.5	M9x0.6	2.4	20.7	2.5	19.1	6.3	8.2
1B	ZEG	16	16.0	M12x1.0	6.5	23.0	3.5	21.1	11.0	10.5
2B	ZEG	20	20.0	M15x1.0	3.0	26.7	3.5	24.6	9.0	13.5
3B	ZEG	24	25.0	M18x1.0	5.0	30.7	4.5	28.1	12.0	16.5

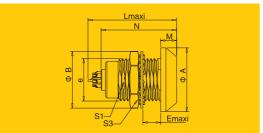
1B MEG 16 18 M12X1.0 5.5 26.6 3.5 11.0 10.5 14 2B MEG 20 20 M15x1.0 5.5 31.6 3.5 9.6 13.5 15



Nut fixing, key (G) or keys (A...M), watertight or vacuumtight (watertight when mated)

Reference Dimensions (mm)										
Series	Model	Α	В	е	Е	L	М	S1	S3	
0B	MHG	13.0	12.4	M9x0.6	7.0	23.2	4.8	8.2	11.0	
1B	MHG	18.0	15.8	M12x1.0	7.0	30.3	5.2	10.5	14.0	
2B	MHG	22.0	19.2	M15x1.0	8.0	35.6	6.0	13.5	17.0	



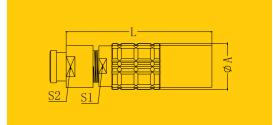


DHG Free socket

Key (G) or keys (A...M and R), cable collet and nut for fitting a bend relief

Refer	ence	Dimensi	ons (mm)			
Series	Model	Α	L	S1	S2	
00B	DHG	6.8	27.0	5.5	6	
0B	DHG	9.5	35.5	8.0	7	
1B	DHG	12.5	40.5	10.0	9	
2B	DHG	16.5	47.0	13.0	12	
3B	DHG	18.0	56.0	16.0	14	



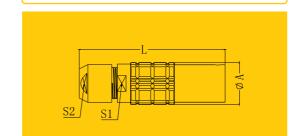


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DHG Free socket

Key (G) or keys (A...M and R), cable collet

ence	Dimensi	ons (mm)		
Model	Α	L	S1	S2
DHG	6.8	27.5	5.5	6
DHG	9.5	35.5	8.0	7
DHG	12.5	40.5	10.0	9
DHG	16.0	47.0	13.0	12
DHG	18.0	60.0	16.0	14
	Model DHG DHG DHG DHG	Model A DHG 6.8 DHG 9.5 DHG 12.5 DHG 16.0	Model A L DHG 6.8 27.5 DHG 9.5 35.5 DHG 12.5 40.5 DHG 16.0 47.0	Model A L S1 DHG 6.8 27.5 5.5 DHG 9.5 35.5 8.0 DHG 12.5 40.5 10.0 DHG 16.0 47.0 13.0

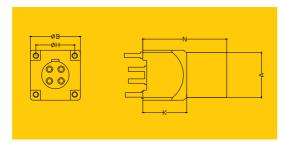


ZZG Straight socket for printed circuit



Key (G) or keys (A...M and R)

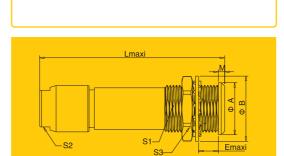
Refe	rence	D	imens	sions	(mm)		_
Series	Model	Α	В	Н	K	N	
0B	ZZG	9	10	7.62	8	16	
1B	ZZG	11	11.8	7.7	9	20	



DFG Fixed socket

With two nuts, key (G) or keys (A...M and R), cable collet (back panel mounting)

Refe	rence		Dime	nsions	(mm)				
Series	Model	Α	В	е	Е	L	М	S1	S2	S3
0B	DFG	10	12.4	M9x0.6	7.0	35.5	1.2	8.2	7	11
1B	DFG	14	15.8	M12x1.0	7.5	40.5	1.5	10.5	9	14
2B	DFG	18	19.2	M15x1.0	8.5	47	1.8	13.5	12	17
3B	DFG	22	25.0	M18x1.0	11.5	56	2.0	16.5	14	22



ZHG Fixed socket

Nut fixing, key (G) or keys (A...M and R), and protruding shell $% \left\{ \mathbf{R}^{\prime}\right\} =\left\{ \mathbf{R}^{\prime}\right\}$

Refe	rence		Dime	nsions (mm)					
Series	Model	Α	В	е	Е	M	L	N1	S1	S3
0B	ZHG	10	12.4	M9x0.6	2	12.5	19. 5	19. 1	8. 2	11
1B	ZHG	14	15.8	M12x1.0	4	12. 0	21.7	21. 1	10.5	14
2B	ZHG	18	19.2	M15x1.0	5. 1	12. 5	22.7	24. 6	13.5	17
3B	ZHG	22	25.0	M18x1.0	7. 1	13. 5	30.7	30. 3	16.5	22

ZPG Elbow (90°) socket for printed circuit

Key (G) or keys (A...F) (solder, screw or harpoon fixing)

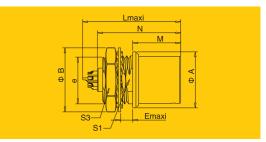
	Dimensions (mm)											
Series	Α	D	Н	-1	K	L	Ν	R				
00B	6.8	11. 9	5. 4	9. 6	9. 1	19. 25	9. 1	5				
0B	9.0	14.6	6.7	12.7	13. 3	25. 0	11.7	7. 62				
1B	11. 0	16.6	7. 5	14. 0	13. 3	27. 0	12. 6	7. 62				
2B	15.0	17.5	12.75	18	17	32	17	12				

ZXG Elbow (90°) socket for printed circuit with two nuts

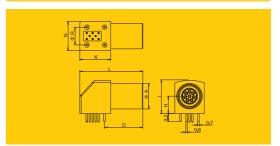
Key (G) or keys (A...F) (solder, screw or harpoon fixing)(back panel mounting)

				Dim	ens	ions (mm)						
Series	Α	В	D	е	Е	Н	1	K	L	M	N	R	S3
00B	10	10.3	11. 5	M7x0.5	2.5	5.4	7	9. 1	19. 3	32.5	9.1	5. 08	9
0B	12	12.4	14. 6	M9x0. 6	6.0	6.7	12. 7	13.3	25. 0	2. 5	11.7	7. 62	11
1B	14	15.0	16. 6	M11x0. 5	7.5	7. 5	14. 0	13.3	27. 0	3. 5	12.6	7. 62	13
2B	20	20.0	17. 5	M15x1.0	8.0	12. 75	18. 0	17.0	32. 0	3. 5	17	12. 0	17

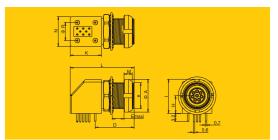


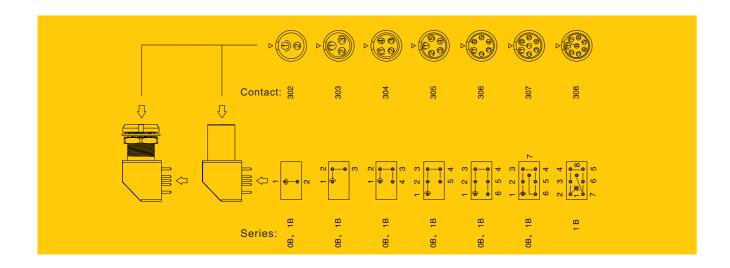












Alignment Key and Polarized Keying System

B series connector model part numbers are composed of three letters.

The LAST LETTER indicates the key position and the contact type (male or female).

Front view of a socket		Nb of		:	Series			NIb of			Seri	es		Contac	ct type	
	Ref.	keys	Angles	00	0B	1B	Ref.	Nb of keys	Angles	2B	3B	4B	5B	Plug	Socket	Note
α	G	1		0°	0°	0°	G	1		0°	0°	0°	0°	male	female	•
	Α	2		30°	30°	30°	Α	2		30°	30°	30°	30°	male	female	•
	В	2	α	60°	60°	60°	В	2	α	45°	45°	45°	45°	male	female	•
	С	2		-	90°	90°	С	2		60°	60°	60°	60°	male	female	•
	D	2		-	135°	135°	D	2	γ	95°	95°	95°	95°	male	female	0
	E	2	β	-	145°	145°	E	2	В	120°	120°	120°	120°	male	female	0
Y - V	F	2		-	155°	155°	F	2	Р	145°	145°	145°	145°	male	female	0
	J	2		45°	45°	45°	J	2	α	37.5°	37.5°	37.5°	37.5°	female	male	•
У	K	2	γ	-	70°	70°	K	2	0.	52.5°	52.5°	52.5°	52.5°	female	male	0
	L	2		-	80°	80°	L	2	γ	70°	70°	70°	70°	female	male	0
	M	2	δ	-	110°	-	M	2	-	-	-	-	-	female	male	0
	V	3		-	-	-	V	3	β	112.5°	126°	112.5°	-	male	female	
	'	J	-	-	_	-	'		γ	100°	102°	147.5°	-	iliale	ieiilale	

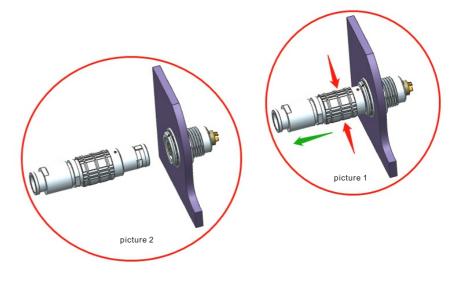
Spanners for hexagonal nuts



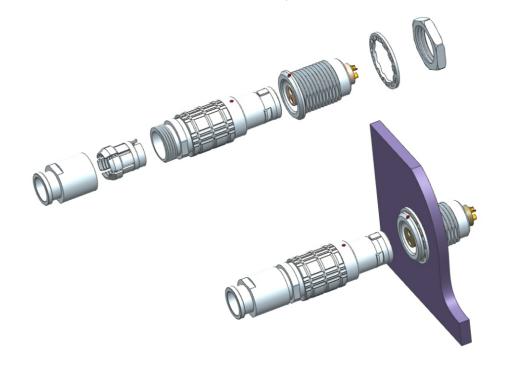
An illustrative

B series plug and socket separation instruction

When the plug and socket are plugged in, pinch the plug shell with the pattern with your thumb and forefinger (as indicated by the red arrow in picture 1), and then pull the plug along the end of the plug (as indicated by the green arrow in picture 1) to separate it (as shown in picture 2). Note: It is not necessary to twist the plug to separate from the socket.



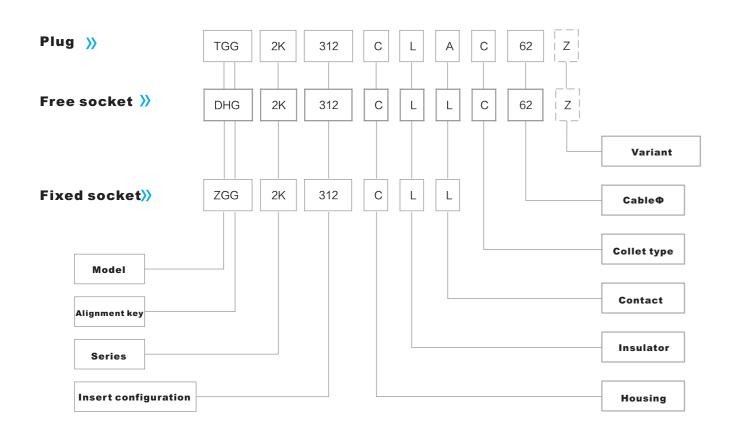
B series plug decomposition diagram



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Part Numbering System of K series



Kseries

K series connectors have been specifically designed for outdoor applications.

All models of this series are watertight when mated to give a protection index of IP68 (IP66 otherwise) when correctly assembled to an appropriate cable.K series connectors have the same insulators as the B series and have the following main features.

- security of the Push-Pull latching system.
- High packing density for space savings.
- 360° screening for full EMC shielding.
- Keying system («G» key standard).
- Multipole types 2 to 32 contacts.

- Watertight connection (IP 68/IP 66).
- Solder or print (straight or elbow) contacts.
- Multiple key options to avoid cross mating for connector alignment of similar connectors.
- Rugged housing for extreme working conditions.

Technical Characteristics of K series:

Mechanical and Climatical:

- Endurance:> 5000 cycles
- Humidity:up to 95% at 60°C
- Temperature range: 55°C, + 250°C
- Resistance to vibrations:10-2000 Hz, 15g
- Shock resistance:100g, 6ms
- Salt spray corrosion test:> 48h
- Protection index (mated):IP 66~68

Housings (B and K series)

Dof	Outer shell	and collet nut	Latch sleeve + e	arthing crown	Other metallic components			
Ref.	Materia	Surf. treatment	Material	Surf. treatment	Material	Surf. treatment		
С	Brass	chrome	brass/bronze	nickel	brass	nickel		
Ν	Brass	nickel	brass/bronze	nickel	brass	nickel		
K	Brass	black chrome	brass/bronze	nickel	brass	nickel		
S	Stainless stee	_	brass/bronze	nickel	brass	nickel		
Т	Stainless stee	_	stainless steel	nickel	brass	nickel		
U	Stainless stee	_	stainless steel	nickel	stainless stee	_		
L	Aluminium alloy	anodized	brass/bronze	nickel	brass	nickel		
Χ	Aluminium alloy	nickel anthracite	brass/bronze	nickel	brass	nickel		
		Note:In the K	series, the lat	ch sleeve is n	ickel-plated.			

Examples of Product Numbers

Straight plug with cable collet:

TGG.2K.312.CLAC62 = straight plug with key (G) and cable collet, 2K series, multipole type with 12 contacts, outer shell in chrome-plated brass, PPS insulator, male solder contacts, C type collet for 6.2 mm diameter cable.

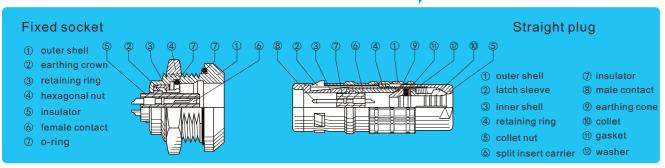
Free socket:

DHG.2K.312.CLLC62 = free socket with key (G) and cable collet, 2K series, multipole type with 12 contacts, outer shell in chrome-plated brass, PPS insulator, female solder contacts, C type collet for 6.2 mm diameter cable.

Fixed socket:

ZGG.2K.312.CLL = fixed socket, nut fixing, with key (G), 2K series, multipole type with 12 contacts, outer shell in chrome-plated brass, PPS extended insulator, female solder contacts.

Part Section Showing Internal Components



TGG Straight plug

Key (G) or keys (A to F, L and R), cable collet

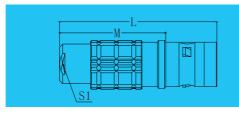
Reference		Dimensi	Dimensions (mm)					
Series	Model	Α	L	М	S1			
0K	TGG	11	34	23	8			
1K	TGG	13	42	28	9			
2K	TGG	16	52	36	12			
3K	TGG	19	61	41	14			

TGG Straight plug

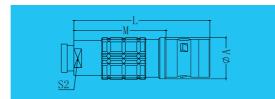
Key (G) or keys (A to F, L and R), cable collet and nut for fitting a bend relief

Refe	rence	Dimensi	ons (mm)		
Series	Model	Α	L	М	S2
0K	TGG	11	34	23	7
1K	TGG	13	42	28	9
2K	TGG	16	52	36	12
3K	TGG	19	60	40	15







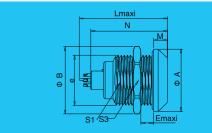


ZGG Fixed socket

Nut fixing, key (G) or keys (A to F, L and R)

Refe	Reference Dimensions (mm)									
Series	Model	Α	В	е	Ε	L	Μ	N1)	S1	S3
0K	ZGG	18	19.2	M14x1.0	6	21.7	4.0	20.1	12.5	17
1K	ZGG	20	21.5	M16x1.0	9	27.0	4.5	25.1	14.5	19
2K	ZGG	25	27.0	M20x1.0	9	30.7	5.0	28.6	18.5	24
3K	ZGG	31	34	M24×1.0	11	36.2	6.0	33.6	22.5	30



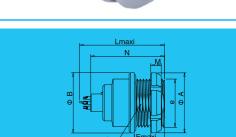






Nut fixing, key (G) or keys (A to F, L and R) (back panel mounting)

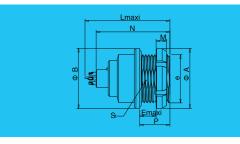
Refe	rence	Di	men	sions (m	m)					
Series	Model	Α	В	е	Е	L	Μ	N1)	D	S1
0K	ZEG	18	18	M14x1.0	3.4	21.7	3.5	20.1	7	12.5
1K	ZEG	20	20	M16x1.0	6.2	27.0	3.5	25.1	10	14.5
2K	ZEG	25	25	M20x1.0	6.2	30.7	3.5	28.6	10	18.5



ZEG Fixed socket

Nut fixing, key (G) or keys (A to F, L and R) with straight print contacts for printed circuit(back panel mounting)

Refe	erence	D	imen	sions (m	m)					
Series	Model	Α	В	е	Ε	L	M	N1)	S1	S3
0K	ZEG	18	18	M14x1.0	3.4	21.7	3.5	20.1	7	12.5
1K	ZEG	20	20	M16x1.0	6.2	27.0	3.5	25.1	10	14.5
2K	ZEG	25	25	M20x1.0	5.0	30.7	3.5	28.6	10	18.5



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DHG Free socket

Key (G) or keys (A to F, L and R), cable collet and nut for fitting a bend relief

Refe	rence	Dimensions (mm)							
Series	Model	Α	L	S2					
0K	DHG	13	34	7					
1K	DHG	15	45	9					
2K	DHG	19	54	12					
3K	DHG	23	65	15					



Key (G) or keys (A to F, L and R), cable collet

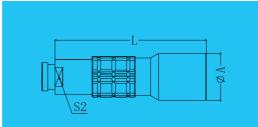
Refe	rence	Dimensions (mm)						
Series	Model	Α	L	S2				
0K	DHG	13	34.0	8				
1K	DHG	15	42.0	9				
2K	DHG	19	52.0	12				
3K	DHG	23	66.0	15				

THG Elbow (90°) plug

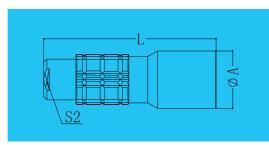
Key (G) or keys (A to F, L and R), cable collet or bend relief

Refe	rence	Dime	nsions	(mm)		
Series	Model	Α	L	M	Н	S1
0K	THG	11.5	36	25.0	27	10
1K	THG	14.0	43	29.0	33	12
2K	THG	17.5	51	35.0	40	15
3K	THG	21.0	60	40.0	47	18

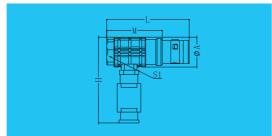




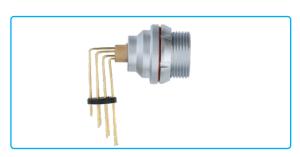








ZEG Fixed socket



Nut fixing, key (G) or keys (A to F and L) with elbow (90°) contacts for printed circuit(back panel mounting)

Reference Dimensions (mm)										
Series	Model	Α	В	е	Е	M	N	Р	S1	
0K	ZEG	18	18	M14×1.0	3.4	3.5	19.3	7	12.5	
1K	ZEG	20	20	M16×1.0	6.2	3.5	24.3	10	14.5	
2K	ZEG	25	25	M20×1.0	5.0	3.5	26.6	10	18.5	

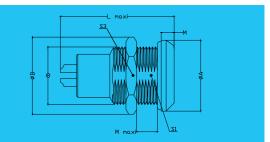
N P 3.5 P & S 1 P & S

MGG Fixed socket



Nut fixing, key (G) or keys (A to F and L), watertight or vacuumtight

Refe	rence	D	imen	sions (m	m)				
Series	Model	Α	В	е	Е	L	М	S1	S3
0K	MGG	18	19.2	M14x1.0	5.5	21.7	4.0	12.5	17
1K	MGG	20	21.5	M16x1.0	9.0	30.0	4.5	14.5	19
2K	MGG	25	27.0	M20x1.0	13.0	33.7	5.0	18.5	24

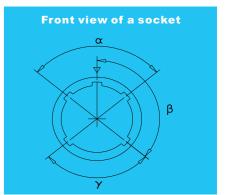


Alignment Key and Polarized Keying System

K series connector model part numbers are composed of three letters.

The LAST LETTER indicates the key position and the contact type (male or female).

Ref.	Nb of keys	Angles		es			Contact type	
			0K	1K	2K	3K	Plug	Socket
G	1		0°	0°	0°	0°	male	female
Α	2		30°	30°	30°	30°	male	female
В	2	α	45°	45°	45°	45°	male	female
С	2		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	Р	145°	145°	145°	145°	male	female
L	2	γ	75°	75°	75°	75°	female	male

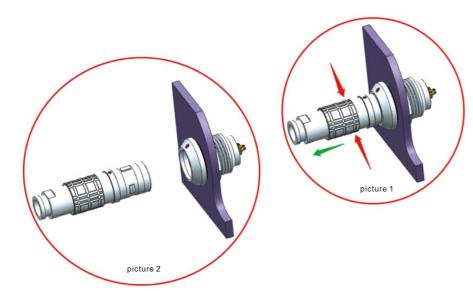


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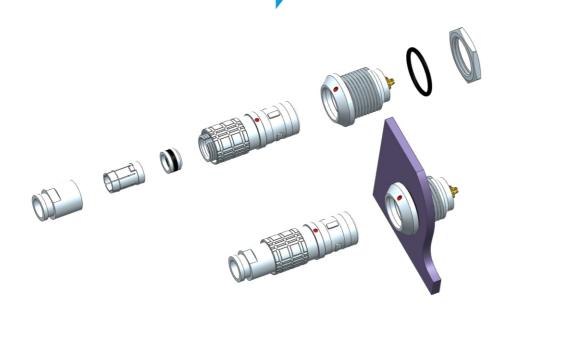
An illustrative

K series plug and socket separation instruction

When the plug and socket are plugged in, pinch the plug shell with the pattern with your thumb and forefinger (as indicated by the red arrow in picture 1), and then pull the plug along the end of the plug (as indicated by the green arrow in picture 1) to separate it (as shown in picture 2). Note: It is not necessary to twist the plug to separate from the socket.



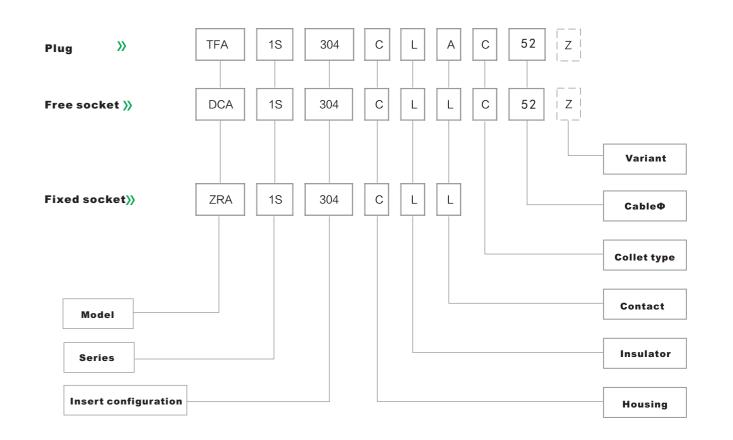
K series plug decomposition diagram







Part Numbering System of S series:



S series

S series connectors have main features as follows:

- security of the Push-Pull self-latching system.Polarisation by stepped insert (half-moon).
- Multipole types 2 to 10 contacts.
- Molder or print contacts (straight or elbow).
- Multipole types with up to 10 contacts fitted with male and female contacts.
- 360° screening for full EMC shielding.

Examples of Product Numbers

Straight plug with cable collet:

TFA.1S.304.CLAC52 = straight plug with cable collet, 1S series, multipole type with 4 contacts, outer shell in chrome-plated brass, PPS insulator, 2 male and 2 female solder contacts, C type collet for a 5.2 mm diameter cable.

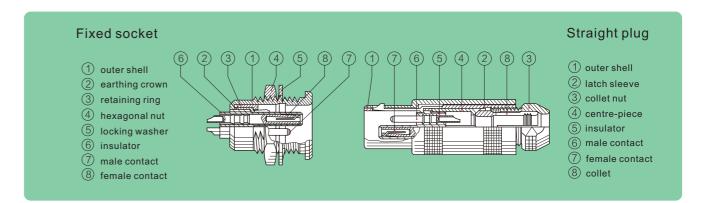
Free socket:

DCA.1S.304.CLLC52Z = free socket, with cable collet, 1S series, multipole type with 4 contacts, outer shell in chrome-plated brass, PPS insulator, 2 female and 2 male solder contacts, C type collet for a 5.2 mm diameter cable and nut for fitting a bend relief.

Fixed socket:

ZRA.1S.304.CLL = fixed socket, nut fixing, 1S series, multipole type with 4 contacts, outer shell in chrome-plated brass, PPS insulator, 2 female and 2 male solder contacts.

Part Section Showing Internal Components



TFA Straight plug

Cable collet

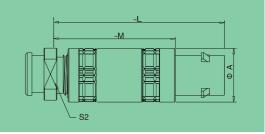
Refe	rence	Dimensions (mm)						
Series	Model	Α	L	M	S2			
00S	TFA	6.4	26.0	18.0	4.5			
0S	TFA	8.8	34.5	24.5	6.5			
1S	TFA	11.8	42.5	31.5	8.5			
2S	TFA	14.8	52.5	40.0	11.0			

TFA Straight plug

Cable collet and nut for fitting a bend relief

Refer	rence	Dimensi	ons (mm)		
Series	Model	Α	L	M	S2
00S	TFA	6.4	26.0	18.0	6
08	TFA	8.8	34.5	24.5	7
1S	TFA	11.8	42.5	31.5	9
2S	TFA	14.8	52.0	40.0	12



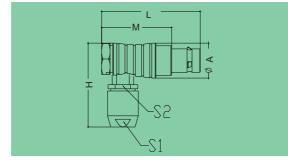


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TLA Elbow (90°) plug



Refe	rence	Di	mens	ions (r	nm)			-	
Series	Model	Α	Н	L	М	S1	S2		
00	TLA	7.5	16.5	19.5	11.5	4.5	6		
0S	TLA	9.5	23.0	30.0	20.0	7.0	8		
1S	TLA	12.0	29.0	36.0	25.0	9.0	10		
2S	TLA	14.8	35.0	41.5	29.5	12.0	13		

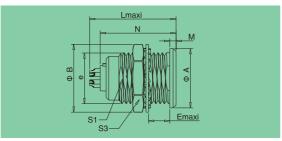


ZRA Fixed socket



Nut fixing

Refe	rence	Di	mens	ions (mn	n)				
Series	Model	Α	В	е	Е	L	M	S1	S3
00	ZRA	8	10.2	M7x0.5	5.5	14.5	1.0	6.3	9
0S	ZRA	10	12.3	M9x0.6	7.0	21.3	1.2	8.2	11
1S	ZRA	14	16.0	M12x1.0	7.5	23.2	1.5	10.5	14
2S	ZRA	18	19.2	M15x1.0	8.0	24.8	2.0	13.5	17

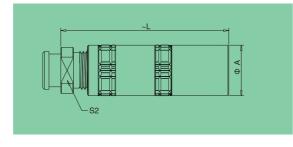


DCA Free socket



Cable collet and nut for fitting a bend relief

Refe	rence	Dimensions	(mm)	
Series	Model	Α	L	S2
08	DCA	8.9	33.5	7
18	DCA	11.9	40.5	9
28	DCA	14.8	50.0	12

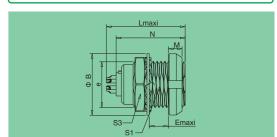


ZCP Fixed socket



With two nuts (back panel mounting)

Refe	rence	Di	men	sions (r	nm)					
Series	Model	Α	В	е	Ε	L	M	Ν	SI	S3
08	ZCP	12	12.5	M9x0.6	5.5	21.3	2.5	19.0	8.2	11
1S	ZCP	16	16.0	M12x1.0	6.0	23.2	3.2	2.01	10.5	14
2S	ZCP	20	20	M15x1.0	6.5	24.8	3.5	24.5	13.5	17

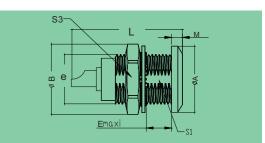


ZRA Fixed socket



Nut fixing, without earthing tag

Refe	rence	Di	mens	ions (mn	n)				
Series	Model	Α	В	е	Ε	L	Μ	S1	S3
00	ZRA	8	10.2	M7x0.5	5.5	14.5	1.0	6.3	9
08	ZRA	10	12.3	M9x0.6	7.0	21.3	1.2	8.2	11
1S	ZRA	14	16.0	M12x1.0	7.5	23.2	1.5	10.5	14
2S	ZRA	18	19.2	M15x1.0	8.0	24.8	2.0	13.5	17

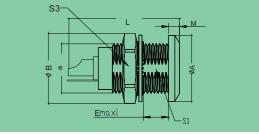


ZRA Fixed socket



Nut fixing, with earthing tag or with two earthing tags

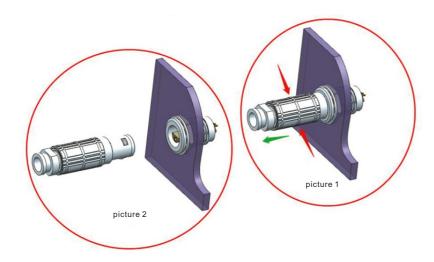
Refe	rence	Di	mens	ions (mr	n)				
Series	Model	Α	В	е	Е	L	M	S1	S3
00	ZRA	8	10.2	M7x0.5	5.5	14.5	1.0	6.3	9
0S	ZRA	10	12.3	M9x0.6	7.0	21.3	1.2	8.2	11
1S	ZRA	14	16.0	M12x1.0	7.5	23.2	1.5	10.5	14
2S	ZRA	18	19.2	M15x1.0	8.0	24.8	2.0	13.5	17



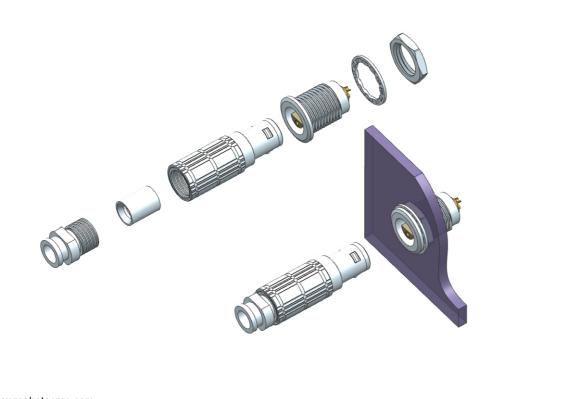
An illustrative

S series plug and socket separation instruction

When the plug and socket are plugged in, pinch the plug shell with the pattern with your thumb and forefinger (as indicated by the red arrow in picture 1), and then pull the plug along the end of the plug (as indicated by the green arrow in picture 1) to separate it (as shown in picture 2). Note: It is not necessary to twist the plug to separate from the socket.



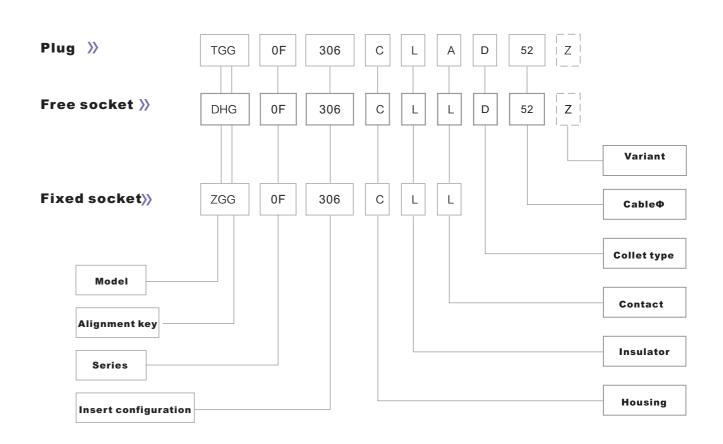
S series plug decomposition diagram







Part Numbering System of F series:



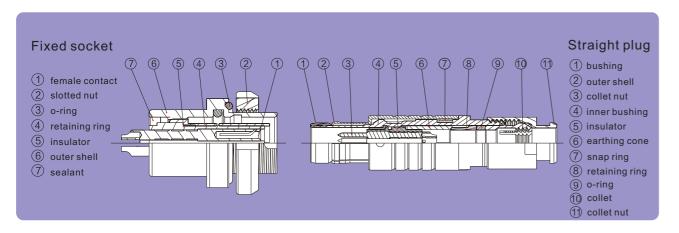
F series

F series connectors have main features as follows:

The F series connectors have been specially developed to meet the most demanding requirements in terms of dimensions, weight and watertightness. Our manufacturing programme includes now 8 series. This series provides customers with many features and benefits including:

- Push-pull self-latching system for safe connection.
- Protection index (mated):IP 66~68.
- Solder or print contacts (straight or elbow).
- Multipole types 2 to 26 contacts.
- Semilunar ring positioning to avoid cross mating for connector alignment of similar connectors.
- Rugged housing for extreme working conditions.
- 360° screening for full EMC shielding.

Part Section Showing Internal Components



TGG Straight plug



ZGG Fixed socket



TLG Short straight plug

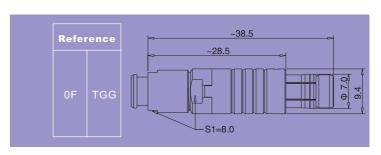


ZLG Short fixed socket

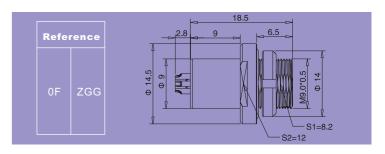


The collet holds the cable in place and the internal parts prevent the cable from turning.

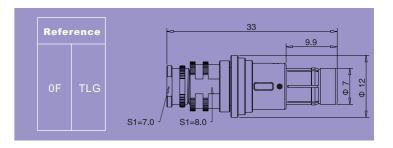
Built-in metal semicircle to prevent accidental insertion.



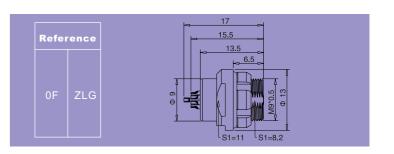
Back panel mounting, built-in metal semicircle to prevent accidental insertion. watertight or vacuum tight.



Built-in metal semicircle to prevent accidental insertion.



Back panel mounting, built-in metal semicircle to prevent accidental insertion. watertight or vacuum tight.



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ZLG Short fixed socket



TGG Straight plug



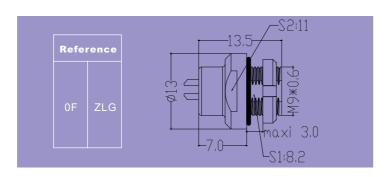
TLG Short straight plug



ZGG Fixed socket

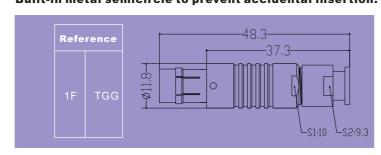


Back panel mounting, built-in metal semicircle to prevent accidental insertion. watertight or vacuum tight.

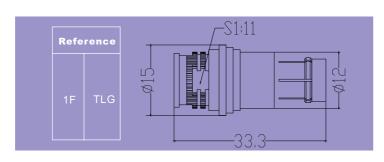


The collet holds the cable in place and the internal parts prevent the cable from turning.

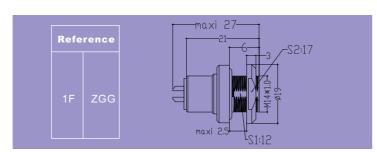
Built-in metal semicircle to prevent accidental insertion.



Built-in metal semicircle to prevent accidental insertion.



Back panel mounting, built-in metal semicircle to prevent accidental insertion. watertight or vacuum tight.



ZGG Fixed socket for printed circuit



ZEG Fixed socket with elbow (90°) contact for printed circuit



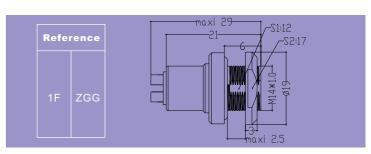
DHG Free socket



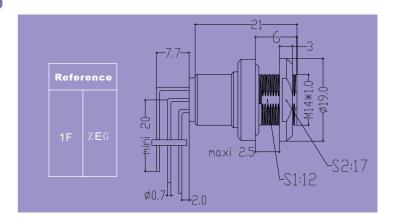
DHG Free socket



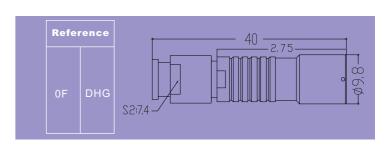
Back panel mounting, watertight or vacuum tight, built-in metal semicircle to prevent accidental insertion.



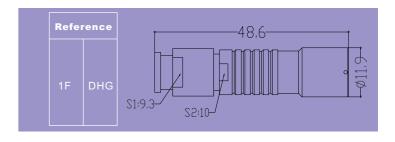
Back panel mounting, built-in metal semicircle to prevent accidental insertion.



Cable collet and nut for fitting a bend relief.Built-in metal semicircle to prevent accidental insertion.



Cable collet and nut for fitting a bend relief.Built-in metal semicircle to prevent accidental insertion.

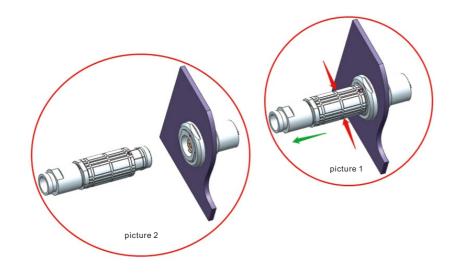


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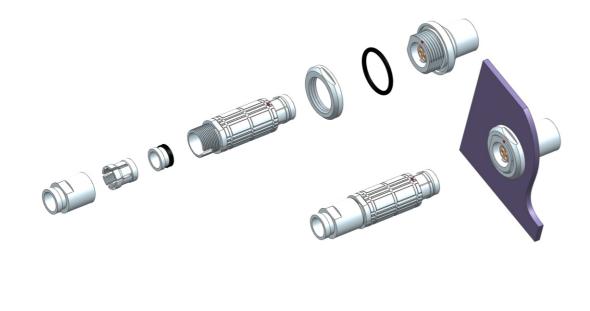
An illustrative

F series plug and socket separation instruction

When the plug and socket are plugged in, pinch the plug shell with the pattern with your thumb and forefinger (as indicated by the red arrow in picture 1), and then pull the plug along the end of the plug (as indicated by the green arrow in picture 1) to separate it (as shown in picture 2). Note: It is not necessary to twist the plug to separate from the socket.



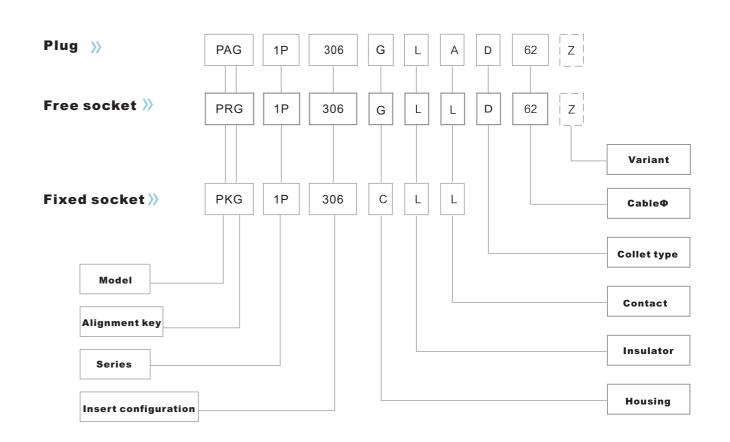
F series plug decomposition diagram







Part Numbering System of P series

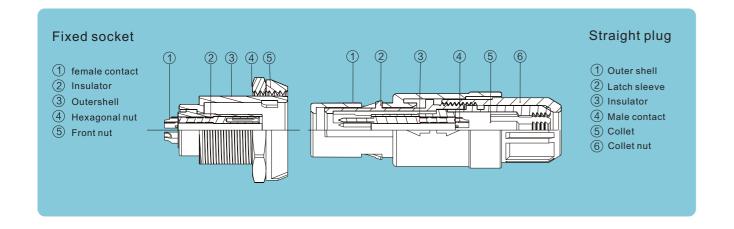


P series

P series connectors have main features as follows:

- Security of the Push-Pull self-latching system
- Multipole types 2 to 26 contacts
- Solder or print contacts (straight or elbow)
- A keying system combined with color coding can be incorporated on all connector types to assist in the prevention of mismating.
- Color coding of the plug collet nut and receptacle flange will give an instant visual indication as to whether connectors are compatible or not.
- Protection index (mated):IP 50

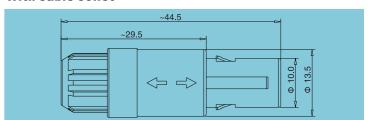
Part Section Showing Internal Components



1P PAG Straight plug



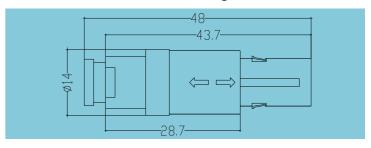
With cable collet



1P PAG Straight plug



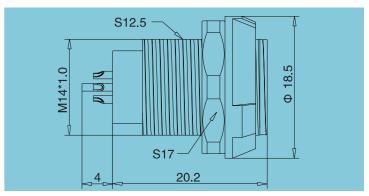
With cable collet and nut for fitting a bend relief



1P PKG Fixed socket



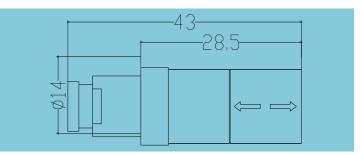
Receptacle with two nuts (back panel mounting)



1P PRG Free socket



Receptacle with cable collet and nut for fitting a bend relief



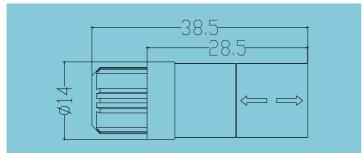
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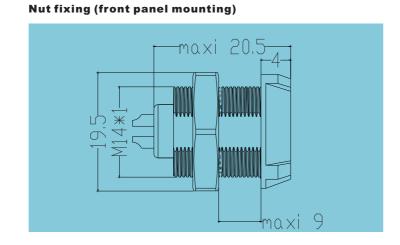
1P PRG Free socket



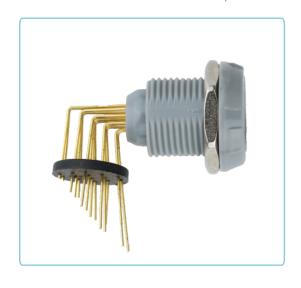
1P PLG Fixed socket

Receptacle with cable collet

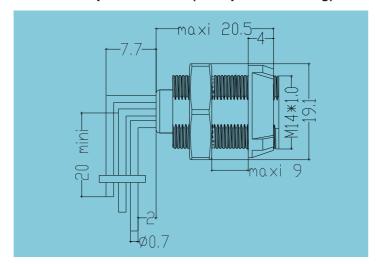




1P PKG Fixed socket



Fixed receptacle with two nuts, with 90° contacts for printed circuit (back panel mounting)



1P PKG Fixed socket(waterproof)



1P PKG Fixed socket



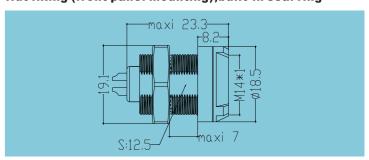
1P PKG Fixed socket



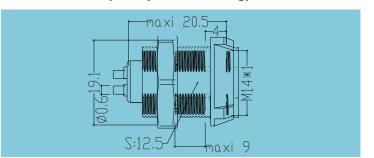
1P PAG Straight plug with one contact



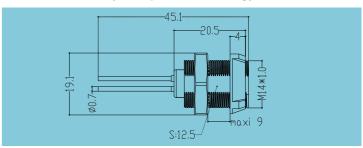
Nut fixing (front panel mounting), built-in seal ring



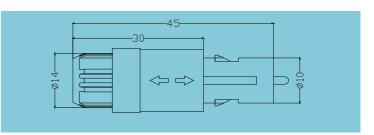
Fixed receptacle with two nuts, with printed contacts circuit (back panel mounting)



Fixed receptacle with two nuts, with long printed contacts circuit (back panel mounting)



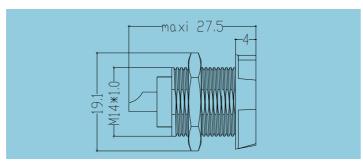
With cable collet and nut for fitting a bend relief



1P PKG Fixed socket with ont contact



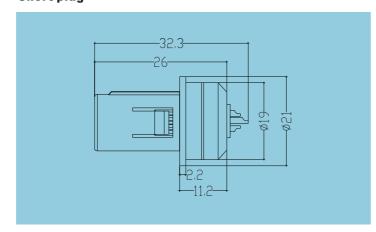
Receptacle with two nuts (back panel mounting)



1P MPQG Short straight plug



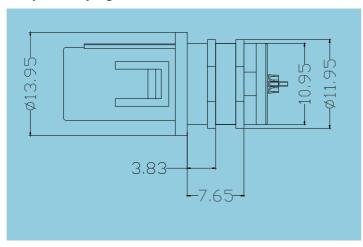
Short plug



1P PPQG Straight plug



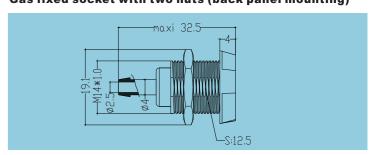
Disposable plug



SQL-02 Gas fixed socket



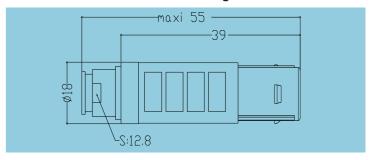
Gas fixed socket with two nuts (back panel mounting)



2P CAB Straight plug



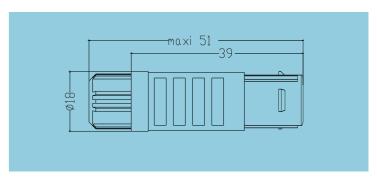
With cable collet and nut for fitting a bend relief



2P CAB Straight plug



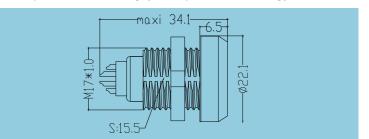
With cable collet



2P CNB Fixed socket



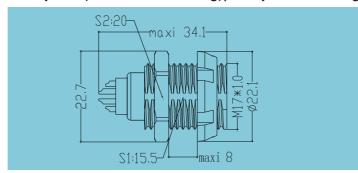
Receptacle, nut fixing,(back panel mounting)



2P CKB Fixed socket



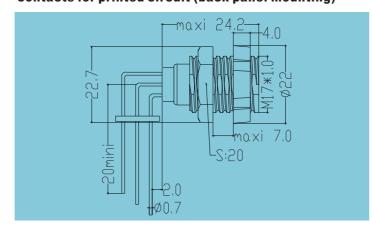
Receptacle, with two nuts fixing, (back panel mounting)



2P CKB Fixed socket



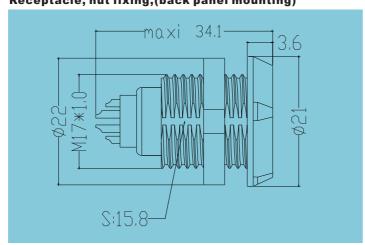
Fixed receptacle with two nuts, with 90° contacts for printed circuit (back panel mounting)



2P CLB Fixed socket



Receptacle, nut fixing,(back panel mounting)



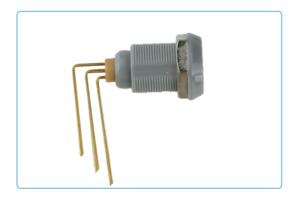
OP PAG Straight plug



OP PKG Fixed socket



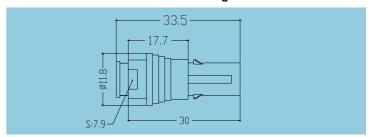
OP PKG Fixed socket



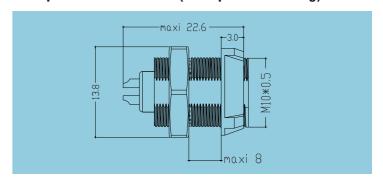
1P socket cap



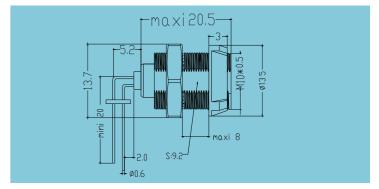
With cable collet and nut for fitting a bend relief



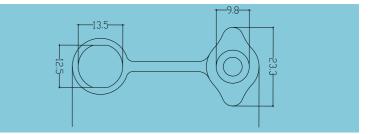
Receptacle with two nuts (back panel mounting)



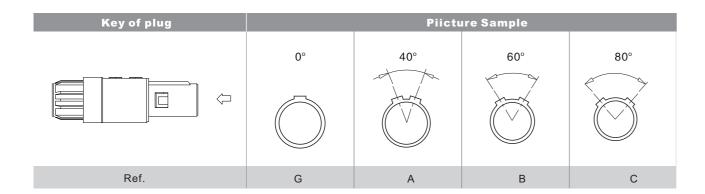
Fixed receptacle with two nuts, with 90° contacts for printed circuit (back panel mounting)



Multicolor optional



Alignment Key



Color of nut

Color Table

Color	Blue	Gray	Yellow	Black	Red	Green
Ref.	Α	G	J	N	R	V

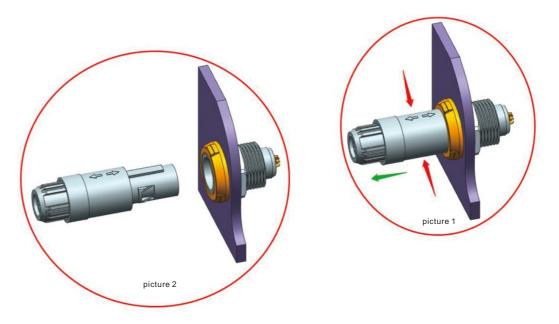
Collet

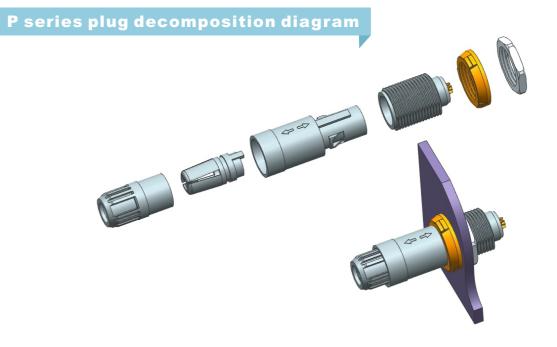
Ref.	ø cable
42	3.5-4.5
52	4.5-5.5
62	5.5-6.5

An illustrative

P series plug and socket separation instruction

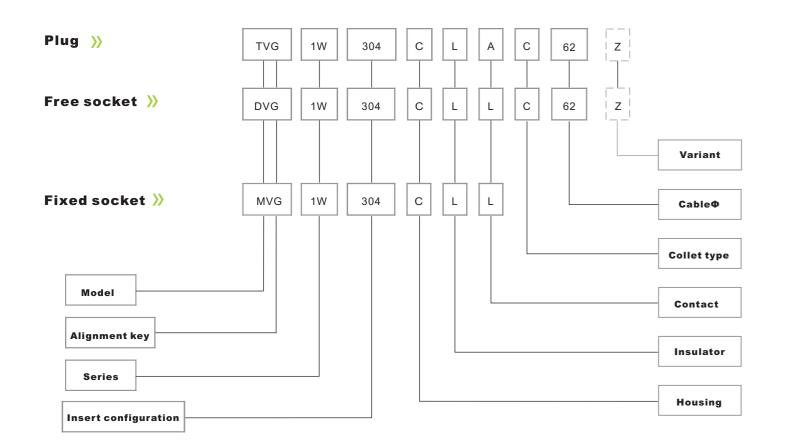
When the plug and socket are plugged in, pinch the plug shell with the pattern with your thumb and forefinger (as indicated by the red arrow in picture 1), and then pull the plug along the end of the plug (as indicated by the green arrow in picture 1) to separate it (as shown in picture 2). Note: It is not necessary to twist the plug to separate from the socket.







Part Numbering System of W series



W series

W series connector technical features

All W series models are waterproof when plugged in, and the fixed socket end can meet the vacuum seal. W series adopts threaded connection, and when correctly assembled with the corresponding cable, it can meet the waterproofing requirements under 50 meters of water. After cable assembly, the rear part must be covered by an adhesive heatshrink boot in order to ensure watertightness on the cable side.

W series connectors provide the following main features:

- Threaded connections.
- Multipole types from 2 to 32 contacts.
- Solder or print contacts.
- Waterproof(IP68).
- 360° screening for full EMC shielding.
- Rugged housing for extreme working conditions.
- Keying system («G» key standard) for connector alignment.

Part Number Example

Straight plug with cable collet:

TVG.1W.310.CLAC62 = straight plug with key (G), 1W series, multipole type with 10 contacts, outer shell in chrome-plated brass, PPS insulator, male solder contacts, C type collet for 6.2 mm diameter cable.

▲ Free socket:

DVG.1W.310.CLAC62 = free socket,key (G),1W series, multipole type with 10 contacts, outer shell in chrome-plated brass, PPS insulator, female solder contacts, C type collet for 6.2 mm diameter cable.

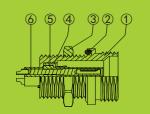
Fixed socket:

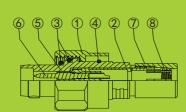
MVG.1W.310.CLL = fixed socket, vacuum tight, nut fixing, key (G), 1W series, multipole type with 10 contacts, outer shell in chrome-plated brass, PPS insulator, female solder contacts.

Part Section Showing Internal Components

Fixed socket ① outer shell

- 2 O-ring
- 3 hexagonal nut
- 4 retaining ring
- 5 insulator
- 6 female contact





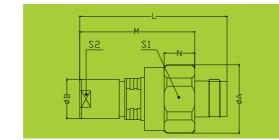
Straight plug

- 1 hexagon nut shell
- 2 outer shell
- ③ o-ring
- 4 earthing cone
- 5 retaining ring
- 6 male contact
 7 collet nut
- 8 collet

TVG Straight plug

key (G) or keys (A, B or L), cable collet and nut for fitting a bend relief

Refer	ence	Di	mensi	ons (mm)			
Series	Model	Α	В	L	M	N	S1	S2
0W	TVG	17.2	8.9	35.5	30.8	13.5	16	8
1W	TVG	19.3	11.0	43.7	35.5	14.0	18	9
2W	TVG	23.5	14.0	52.5	43.0	15.5	22	12
3W	TVG	27.8	17.0	61.5	48.0	16.5	26	15

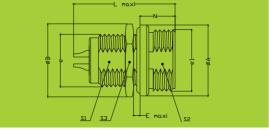


MVG Fixed socket

nut fixing, key (G) or keys (A, B or L), vacuumtight

Refe	rence		Dime	ensions (m	m)						
Series	Model	Α	В	е	e1	Е	L	Ν	S1	S2	S3
0W	MVG	16.2	16.0	M12x1.0	M14x1.0	4.0	22.1	8.0	10.5	12.5	14
1W	MVG	18.3	19.5	M14x1.0	M16x1.0	8.0	26.0	8.0	12.5	14.5	17
2W	MVG	22.5	21.8	M16x1.0	M20x1.0	9.0	25.1	9.0	14.5	18.5	19
3W	MVG	26.6	27.0	M20x1.0	M20x1.0	13.0	34	9.5	18.5	22.5	24



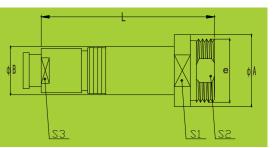


DVG Free socket

key (G) or keys (A, B or L), cable collet and nut for fitting a bend relief

Refer	ence	Din	nensio	ns (mm)				
Series	Model	Α	В	е	L	S1	\$2	\$3
0W	TVG	16.2	8.9	M14x1.0	34.0	14	13.5	7
1W	TVG	18.3	11.0	M16x1.0	45.0	16	14.5	9
2W	TVG	22.5	14.0	M20x1.0	54.0	20	18.5	12
3W	TVG	26.6	17.0	M24x1.0	64.0	24	22.5	15



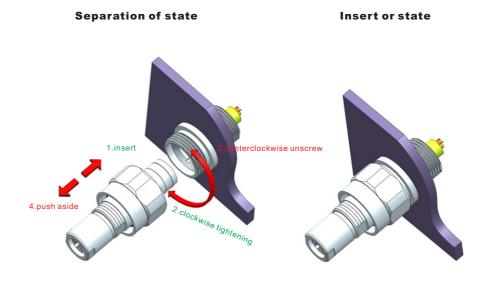


An illustrative

W series plug and socket separation instruction

Plugging method: In the separated state, align the plug with the key and insert (1) into the socket. Tighten the connecting nut (2) clockwise to insert and lock.

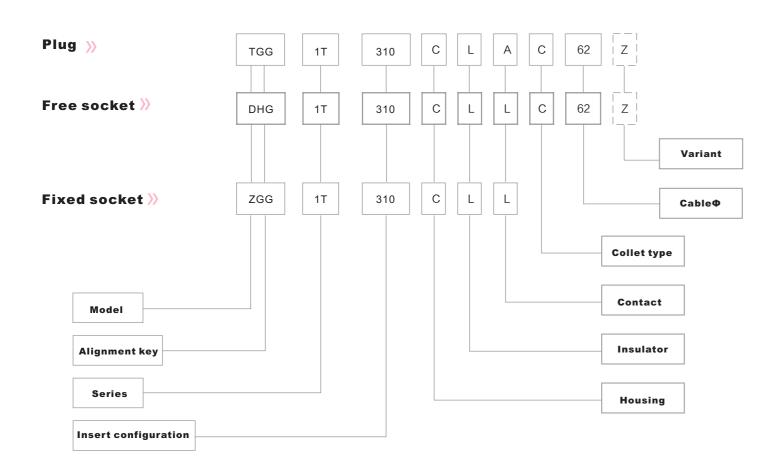
Separation method: when inserted, unscrew (3) connecting nut counterclockwise, and then unscrew (4) to separate.



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Part Numbering System of T series



T series

T series connectors have been specifically designed for outdoor applications.

All models of this series are watertight when mated to give a protection index of IP68 (IP66 otherwise) when correctly assembled to an appropriate cable.K series connectors have the same insulators as the B series and have the following main features:

- Security of the Push-Pull latching system.
- High packing density for space savings.
- 360° screening for full EMC shielding.
- Keying system («G» key standard).
- Multipole types 2 to 32 contacts.

- Watertight connection (IP 68/IP 66).
- Solder or print (straight or elbow) contacts.
- Multiple key options to avoid cross mating for connector alignment of similar connectors.
- Rugged housing for extreme working conditions.

Technical Characteristics of T series:

Mechanical and Climatical:

- Endurance:> 5000 cycles.
- Humidity:up to 95% at 60°C.
- Temperature range: 55°C, + 250°C.
- Resistance to vibrations:10-2000 Hz, 15g.
- Shock resistance:100g, 6ms.
- Salt spray corrosion test:> 48h.
- Protection index (mated):IP 66~68.

Housings (B T and K series)

Ref.	Outer shell	and collet nut	Latch sleeve +	earthing crown	Other metalli	Other metallic components		
Kei.	Material	Surf. treatment	Material	Surf. treatment	Material	Surf. treatment		
С	Brass	chrome	brass/bronze	nickel	brass	nickel		
N	Brass	nickel	brass/bronze	nickel	brass	nickel		
K	Brass	black chrome	brass/bronze	nickel	brass	nickel		
S	Stainless stee		brass/bronze	nickel	brass	nickel		
Т	Stainless stee	_	Stainless stee	nickel	brass	nickel		
U	Stainless stee	_	Stainless stee	nickel	Stainless stee	nickel		
L	Aluminium alloy	anodized	brass/bronze	nickel	brass	nickel		
Χ	Aluminium alloy	nickel anthracite	brass/bronze	nickel	brass	nickel		
	Note:In the BT and K series, the latch sleeve is nickel-plated.							

Examples of Product Numbers

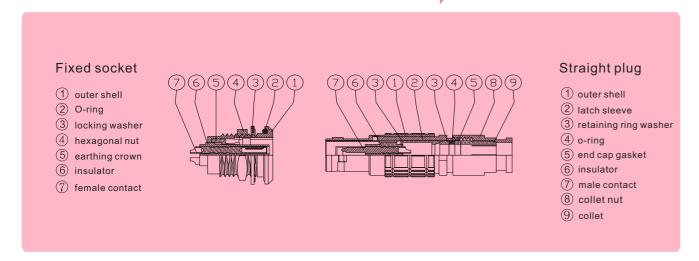
▲ Straight plug with cable collet:

TGG.1T.310.CLAC62 = straight plug with key (G) and cable collet, 1T series, multipole type with 10 contacts, outer shell in chrome-plated brass, PPS insulator, male solder contacts, C type collet for 6.2 mm diameter cable.

Fixed socket:

ZGG.1T.310.CLL = fixed socket, nut fixing, with key (G), 1T series, multipole type with 10 contacts, outer shell in chrome-plated brass, PPS extended insulator, female solder contacts.

Part Section Showing Internal Components

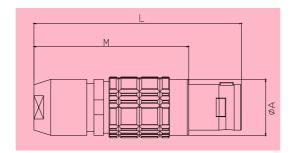


TGG Straight plug



key (G) or keys (A...F,L or R),cable collet

Reference		Dimensi	ons (mm)		
Series	Model	Α	L	М	
0T	TGG	9.0	39.0	29.0	
1T	TGG	12.0	46.0	35.0	
2T	TGG	15.0	55.0	43.0	



GG Straight plug

key (G) or keys (A...F,L or R),cable collet and nut for fitting a bend relief

Refe	rence	Dimens			
Series	Model	Α	L	M	
0T	TGG	9.0	38.0	28.0	
1T	TGG	12.0	45.0	34.0	
2T	TGG	15.0	54.0	42.0	

ZGG Fixed socket

key (G) or keys (A...F,L or R), nut fixing

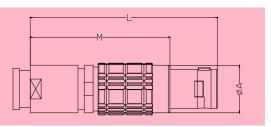
Refer	ence	Dimensions (mm)					
Series	Model	Α	е	Ε	L	M	Ν
0T	ZGG	12.0	M9X0.6	6.0	21.0	1.5	19.1
1T	ZGG	15.5	M12X1.0	6.0	23.0	1.8	21.5
2T	ZGG	18.5	M15X1.0	7.5	26.5	1.8	24.6

ZEG Fixed socket

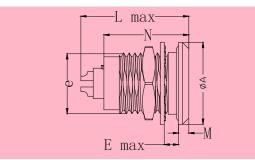
key (G) or keys (A...F,L or R),nut fixing, back panel mounting

Refer	ence	Dimensions (mm)					
Series	Model	Α	е	Е	L	Ν	
0T	ZEG	12.0	M9X0.6	6.5	21.0	19.1	
1T	ZEG	15.5	M12X1.0	6.0	23.0	21.5	
2T	ZEG	18.5	M15X1.0	7.5	26.5	24.6	

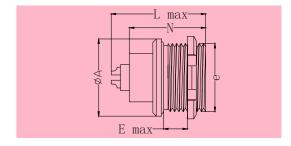








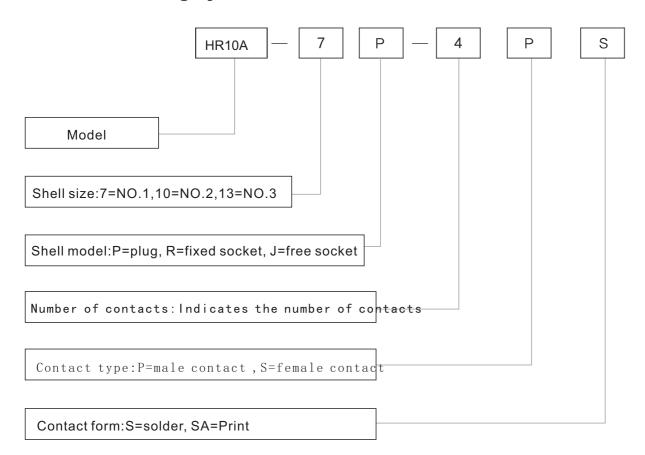




HR10A



Part Numbering System of HR10A series



HR10A series

HR10A series connectors have main features as follows:

HR10A miniature push-pull self-locking circular connector is widely used in electronic instruments, industrial cameras, visual equipment, cameras, medical equipment and so on.

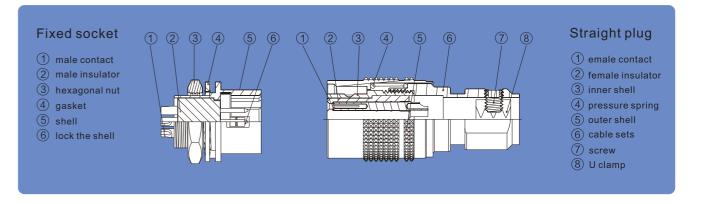
The features of the product are:

- Push-pull self-locking connection, connection separation is simple and fast. (Shell surface antiskid design, sound prompt when self-locking).
- Exquisite self-locking device ensures firm and reliable connection.
- The use of reasonable five keys design with complete anti-blind insert function.
- Compact structure design. (Can effectively save the equipment space, the micro design of the equipment implementation).
- Nickel plated copper plug shell, nickel plated zinc alloy socket shell, PPS insulator.

Examples of Product Numbers:

- HR10A-7P-4P=NO.1 series, straight plug of 7# shell size, multipole type with 4 contacts, male solder contacts
- HR10A-7R-4S=NO.1 series, fixed socket of 7# shell size, multipole type with 4 contacts, female solder contacts.
- HR10A-7J-4S=NO.1 series,free socket of 7# shell size,multipole type with 4 contacts, female solder contacts.

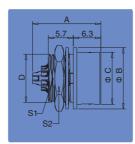
Part Section Showing Internal Components



Fixed socket(solder)

Shell Size	Α	В	С	D	S1	S2
1#	14	11	8.8	M8*0.5	7.2	10
2#	15.6	14	10.9	M11*0.75	10	13
3#	20.5	18	15.3	M14*1.0	13.1	17

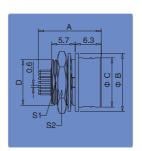




Fixed socket(print)

Shell Size	А	В	С	D	S1	S2
1#	15.5	11	8.8	M8*0.5	7.2	10
2#	15.5	14	11.9	M11*0.75	10	13
3#	20.5	18	15.3	M14*1.0	13. 1	17

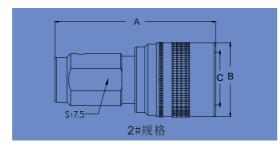




Straight plug

Shell Size	А	В	С	
1#	35	11.5	8.8	
2#	43	14	10.9	
3#	43	19	13	

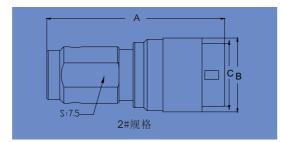




HR10A series free socket

Shell Size	А	В	С	
1#	32.8	11.5	8.8	
2#	43.9	14.5	11.8	

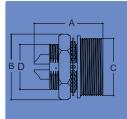




Threaded fixed socket

Shell Size	Α	В	С	D	
1#	14.9	11.4	M10*0.75	M8*0.5	
2#	17.5	15.5	M13*0.75	M11*0.75	

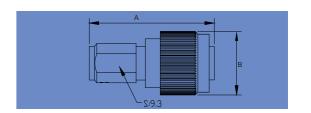




Threaded straight plug



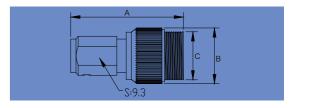
Shell Size	А	В
1#	26.5	12
2#	32	17



Threaded free socket

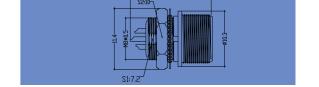


Shell Size	А	В	С	
1#	26	11	M10*0.75	
2#	30. 5	15	M13*0.75	



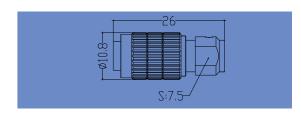
Threaded fixed socket(waterproof)





Threaded straight plug(waterproof)



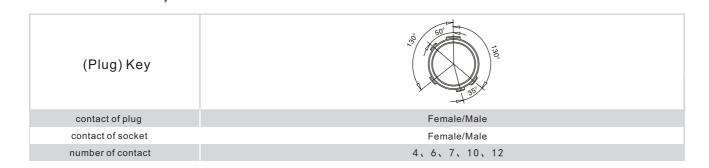


Technical parameters

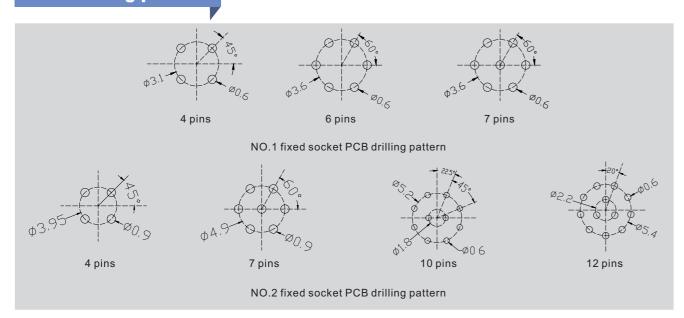
Insulator hole arrangement

Shell 1#				Shell 2#					
NO. Performance indicators		© <u>†</u> ©	(2+0)			0-0-0			
1	Contact ø(mm) 0.5mm		0.9mm	0.7mm	0.5	mm			
2	Adapter cable			26AWG		22AWG	24AWG	26A	WG
	Test voltage	Contact -contact	0.95KV	0.80KV	0.75KV	1. 45KV	1. 25KV	1.15KV	0.95KV
3	(kV rms)	Contact -shell	0.80KV	0.70KV	0.65KV	1.30KV	1.35KV	1.35KV	1. 25KV
4	Rated current	(A)		2A		8A	7A	2	A
4	Temperature range(°C)		-50°C ~125°C			-5	50°C ~125°C		
5	5 Endurance(cycles)			1000				1000	

Keys change

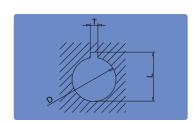


PCB drilling pattern



Panel cut-outs

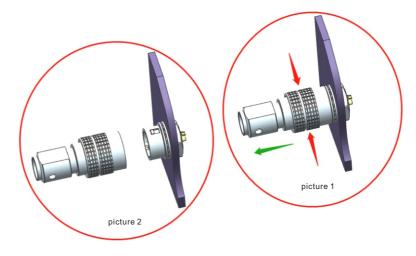
Shell Size	D	Т	L
1	8.0	1.6	9.0
2	11.1	2.5	11.5
3	14.2	2.6	15.5



An illustrative

HR10A series plug and socket separation instruction

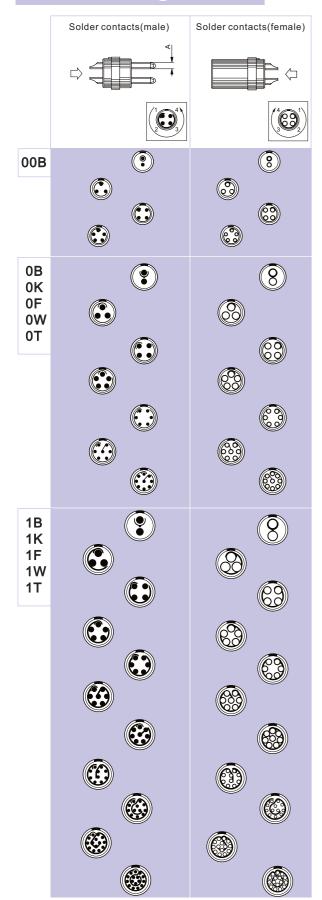
When the plug and socket are plugged in, pinch the plug shell with the pattern with your thumb and forefinger (as indicated by the red arrow in picture 1), and then pull the plug along the end of the plug (as indicated by the green arrow in picture 1) to separate it (as shown in picture 2). Note: It is not necessary to twist the plug to separate from the socket.



HR10A series plug decomposition diagram



Insert configuration



[•] First choice alternative

			Co	ntact ty	/ne	Sol	der	
Reference	NO. of contact	Φ A (mm)	Solder	Print (straight)	Print (elbow)	Test voltage (kV rms) Contact -contact	Test voltage (kV rms)	Rated current (A)
302	2	0.5	•	•	•	1.00	0.95	5.0
303	3	0.5	•	•	•	0.80	0.95	3.0
304	4	0.5	•	•	•	0.80	0.65	2.0
305	5	0.35	•	•	•	0.70	1.00	1.7
302	2	0.9	•	•	•	1.00	1.05	10.01)
303	3	0.9	•	•	•	1.20	0.90	8.01)
304	4	0.7	•	•	•	0.85	0.70	7.01)
305	5	0.7	•	•	•	1.00	0.70	6.51)
306	6	0.5	•	•	•	0.85	0.65	2.5
307	7	0.5	•	•	•	0.80	0.70	2.5
309	9	0.5	•	•	0	0.60	0.50	2.0
302	2	1.3	•	•	•	1.50	1.35	15.02)
303	3	1.3	•	•	•	1.30	1.55	12.0
304	4	0.9	•	•	•	1.35	1.45	10.01)
305	5	0.9	•	•	•	1.25	1.15	9.01)
306	6	0.7	•	•	•	1.05	1.20	7.01)
307	7	0.7	•	•	•	0.95	1.05	7.01)
308	8	0.7	•	•	•	0.95	1.15	5.0
310	10	0.5	•	•	•	0.90	1.50	2.5
312	12	0.5	•	•	•	0.85	1.15	2.0
314	14	0.5	•	•	•	0.80	1.20	2.0
316	16	0.5	•	•	0	0.80	1.25	1.5

Note:(1) rated current = 6A for socket with elbow (90°) contact for printed circuit. (2) rated current = 12A for socket with elbow (90°) contact for printed circuit. (3) available only for connectors fitted with male contacts.

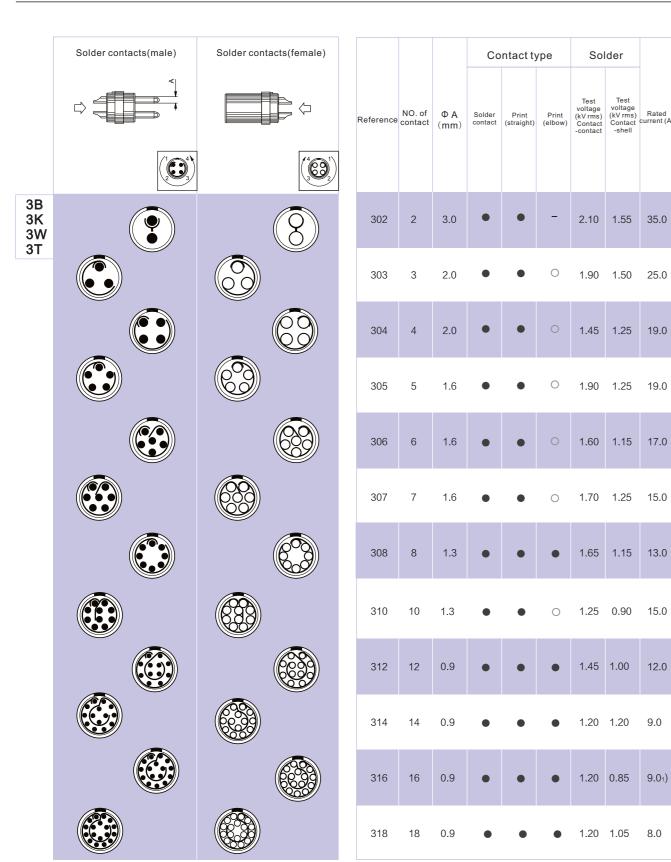
	Solder contacts(male)	Solder contacts(female)				Со	ntact ty	/pe	Sol	der	
			Reference	NO. of contact	Φ A (mm)	Solder	Print (straight)	Print (elbow)	Test voltage (kV rms) Contact -contact	Test voltage (kV rms) Contact -shell	Rated current (A)
2B 2K		8	302	2	2.0	•	•	•	2.10	1.75	30.02)
2W 2T			303	3	1.6	•	•	•	2.40	1.85	17.02)
		6	304	4	1.3	•	•	•	1.85	1.85	15.02)
			305	5	1.3	•	•	•	1.75	1.60	14.02)
			306	6	1.3	•	•	•	1.35	1.45	12.0
			307	7	1.3	•	•	•	1.75	1.60	11.0
			308	8	0.9	•	•	•	1.50	1.25	10.01)
			310	10	0.9	•	•	•	1.45	1.30	8.01)
			312	12	0.7	•	•	•	1.25	1.35	7.01)
			314	14	0.7	•	•	•	1.15	1.35	6.51)
			316	16	0.7	•	•	•	0.95	1.25	6.0
			318	18	0.7	•	•	•	0.85	1.20	5.5
			319	19	0.7	•	•	•	0.95	1.25	5.0
			326	26	0.5	•	•	0	0.95	1.30	2.0
	• First choice alternative		332 Note:(1)ra	tod =::==	0.5	• analyst	• with albox	0	0.80	1.20	1.5

First choice alternative

Note:(1)rated current = 6A for socket with elbow (90°) contact for printed circuit. (2) rated current = 12A for socket with elbow (90°) contact for printed circuit.

O Special order alternative

O Special order alternative



• First choice alternative

Note:(1) rated current = 6A for socket with elbow (90°) contact for printed circuit.

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

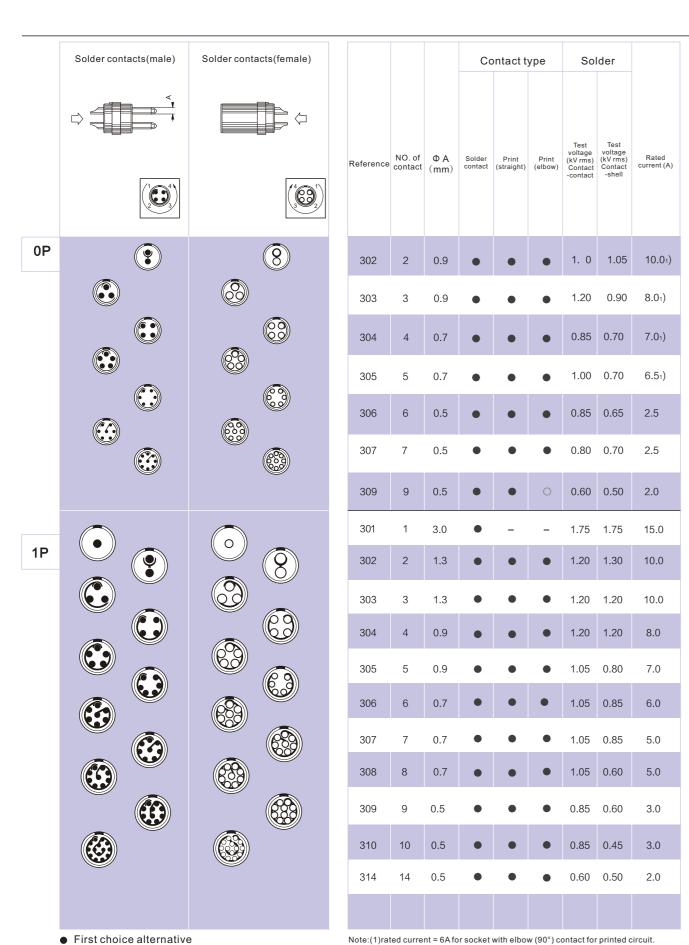
(3) available only for connectors fitted with male contacts.

Solder contacts(female) Solder contacts(male) 3B 3K 3W 3T 0S 0E 0L 10 (10 O2) -3 (10 0) (4 • • 3) 1S 1E 1L 000

- First choice alternative
- O Special order alternative

			Co	ntact ty	/pe	Sol	der	
Reference	NO. of contact	Φ A (mm)	Solder contact	Print (straight)	Print (elbow)	Test voltage (kV rms) Contact -contact	Test voltage (kV rms) Contact -shell	Rated current (A
320	20	0.7	•	•	0	1.00	0.90	6. 0
321	20	0.7	•	•	0	1.00	0.90	6. 0
322	22	0.7	•	•	0	1.00	0.90	6. 0
324	24	0.7	•	•	0	0. 95	0.80	4. 0
326	26	0.7	•	•	0	0. 95	0.70	4. 0
327	27	0.7	•	•	0	0.90	0.70	3. 5
330	30	0.7	•	•	0	0.80	0.70	3.5
332	32	0.7	•	•	0	0.80	0.70	3. 0
302 0	S 0E	2	0.9	•	•	1.1	1.6	10
303 0	S OE	3	0.7	•	•	1.0	1.5	7
304 0	S 0E	4	0.7	• •	•	1.0	1.5	7
302 1	S 1E	2	1.3	•	•	1.2	1.8	15
303 1	S 1E	3	0.9	•	•	1.2	1.8	10
304 1	S 1E	4	0.9	•	•	1.2	1.8	10
305 1	S 1E	2	0.9 0.7	• •	•	1.5 1.5		10 7
306 1	S 1E	6	0.7	•	•	1.2	2 1.7	7

Note:(1)rated current = 6A for socket with elbow (90°) contact for printed circuit. (2) rated current = 12A for socket with elbow (90°) contact for printed circuit. (3) available only for connectors fitted with male contacts.



Note:(1)rated current = 6A for socket with elbow (90°) contact for printed circuit. (2) rated current = 12A for socket with elbow (90°) contact for printed circuit. (3) available only for connectors fitted with male contacts.

Solder contacts(male) Solder contacts(female) Contact type Solder voltage voltage (kV rms) Contact Contact NO. of Φ A Solder Print Print (elbow) Reference contact (mm) 2P 8 2.10 1.60 30.02) 302 2 2.0 2.40 1.50 17.02) 303 69 1.85 1.80 15.02) 304 1.3 1.75 1.10 14.0₂) 305 1.3 1.35 0.85 12.0 306 1.3 1.75 0.95 11.0 1.50 1.00 10.01) 308 0.9 310 1.45 0.75 8.01) 312 12 0.7 1.25 0.85 7.01) 14 1.50 0.65 6.51) 316 16 0.7 1.50 0.65 6.0 318 18 0.7 0.85 1.20 5.5 1.40 0.60 5.0 319 19 0.7 326 0 1.00 0.55 2.0 0 1.00 0.50 2.0 332 32 0.5

Note:(1)rated current = 6A for socket with elbow (90°) contact for printed circuit. (2) rated current = 12A for socket with elbow (90°) contact for printed circuit.

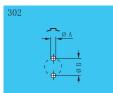
www.renhotecpro.com

O Special order alternative

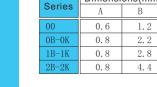
First choice alternative

Special order alternative

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

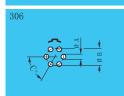


	Dimensi	ons(mm)
Series	0.6 0.8 0.8	В
00	0.6	1.2
OB-OK	0.8	2. 2
1B-1K	0.8	2.8
2B-2K	0.8	4. 4

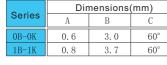


304	~ ° ► ⊲	5
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	-1001-	4

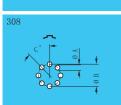
Carias	Dimensions(mm)						
Series	A	В	С				
00	0.6	1.6	45°				
0B-0K	0.6	2.5	45°				
1B-1K	0.8	3. 1	45°				
2B-2K	0.8	5. 0	45°				
3B-3K	0.8	6. 2	45°				



	Λ	D	C
00	0.6	1.6	45°
0B-0K	0.6	2.5	45°
1B-1K	0.8	3. 1	45°
2B-2K	0.8	5. 0	45°
3B-3K	0.8	6. 2	45°
	n :		, ,

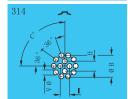


	Dir	nensions	(mm)
Series	A	В	С
0B-0K	0.6	3.00	60°
1B-1K	0.8	3. 70	60°
2B-2K	0.8	5. 80	60°
3B-3K	0.8	7.08	60°



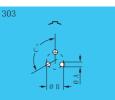
Carias	Dimensions(mm)						
Series	A	В	С				
2B-2K	0.8	6. 4	45°				
3B-3K	0.8	7. 5	45°				





Carias	Dimensions(mm)						
Series	A	В	С	D	Н		
1B-1K	0.6	3. 95	45°	22 °30'	1.40		
2B-2K	0.8	6. 20	45°	22 °30'	2. 15		
3B-3K	0.8	7. 90	45°	22 °30'	2.80		

	•							
		Corios	Dimensions(mm)					
		Series	A	В	С	Н	Ι	
,° 36° (*		1B-1K	0.6	4.4	90°	1.90	1.	
\$ S		2B-2K	0.8	6.5	90°	2.65	2. (
		3B-3K	0.8	8.2	90°	3.40	3.	
1 0000		3B-3K	0.8	8. 2	90°	3. 40	3.	

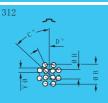


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316	_
	P199 = m

	Dimensions(mm)					
Series	A	В	С			
00	0.6	1.35	120°			
0B-0K	0.8	2. 30	120°			
1B-1K	0.8	3.00	120°			
2B-2K	0.8	4. 60	120°			
3B-3K	0.8	5. 60	120°			

0:	Dir	nensions	(mm)
Series	A	В	С
0B-0K	0.6	2.8	72°
1B-1K	0.8	3. 4	72°
2B-2K	0.8	5. 2	72°
3B-3K	0.8	6. 7	72°

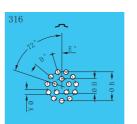
	Dir	nensions	(mm)
Series	A	В	С
2B-2K	0.8	5. 6	72°
3B-3K	0.8	7.1	72°

	0	Dir	nensions	(mm)
	Series	A	В	С
	1B-1K	0.8	3.8	51 °26
<u>†</u>				

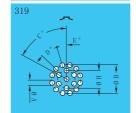
	0	Dimensions(mm)				
~	Series	A	В	С		
× C ₀ →	ов-ок	0.6	3. 2	45°		
N Q Q	3B-3K	0.8	7. 5	45°		

	Carias		Dime	nsio	ns(mm)
	Series	A	В	С	D	Н
_D °	2B-2K	0.8	6.50	45°	22 °30'	2.
↑ <u>=</u> •	3B-3K	0.8	8. 20	45°	22°30'	3.
0000 =						

_		Dimensions(mm					
+	Series	A	В	D	Н		
	1B-1K	0.6	4. 4	32°44'	2.		



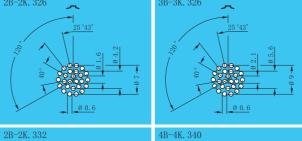
0 .	Dimensions(mm)					
Series	A	В	D	Е	Н	
2B-2K	0.8	6.6	32°44'	16°22'	3. 10	
3B-3K	0.8	8.4	32°44'	16°22'	3.86	
4B-4K	0.6	10.5	32°44'	16°22'	5.00	

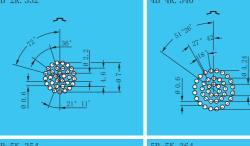


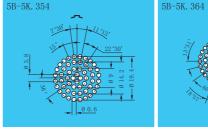
Series	Dimensions(mm)					
	A	В	С	D	Е	Н
2B-2K	0.8	6.7	60°	30°	15°	3.5

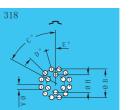


Series	Dimensions(mm)					
	A	В	С	D	Е	Н
3B-3K	0.6	8.8	45°	25 °43'	22°30'	5

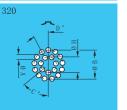




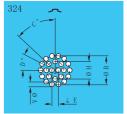




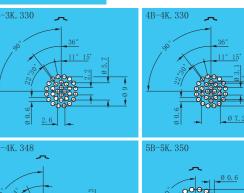
	Dimensions(mm)					
Series	A	В	С	D	Е	Н
2B-2K	0.8	6. 7	60°	30°	15°	3. 50
3B-3K	0.8	8. 4	60°	30°	15°	4. 34

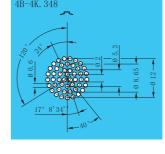


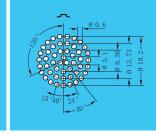
0:	Dimensions(mm)					
Series	A	В	С	D	Н	
3B-3K	0.6	8. 62	51°26'	27°42'	4. 78	
4B-4K	0.6	11.00	51°26'	27°42'	6.00	



Series			Dimensions(mm)					
	Α	В	С	D	Е	Н		
3B-3K 0	. 6	8.8	45°	25 °43'	1.8	5. 30		
4B-4K 0	. 6	11. 1	45°	25 °43'	2. 2	6.65		



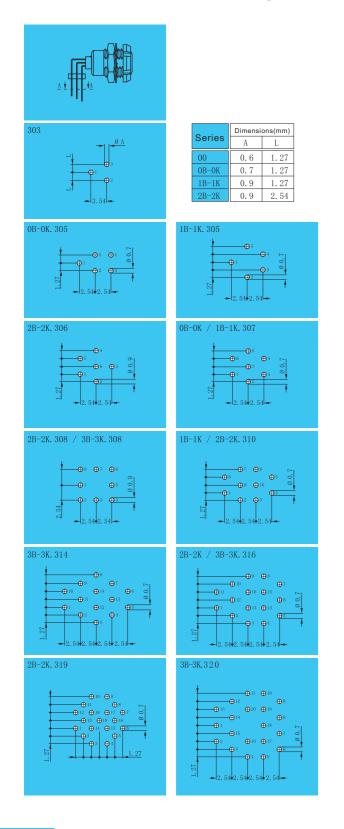


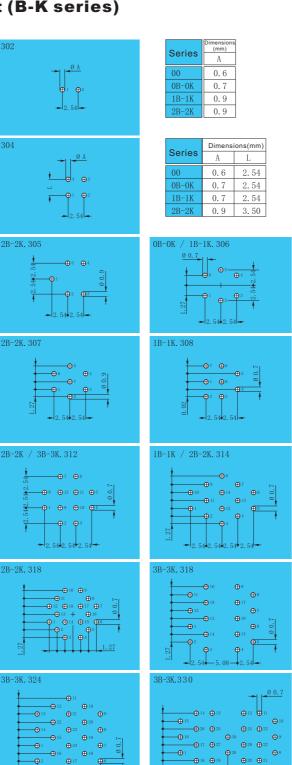


Note: all views are from the side of the socket.

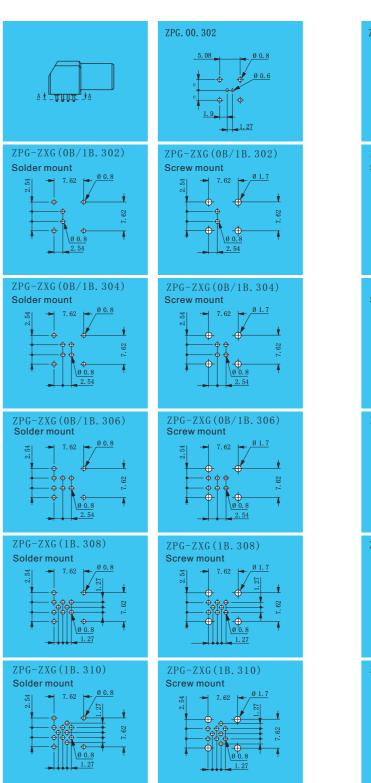
www.renhotecpro.com www.renhotecpro.com 68

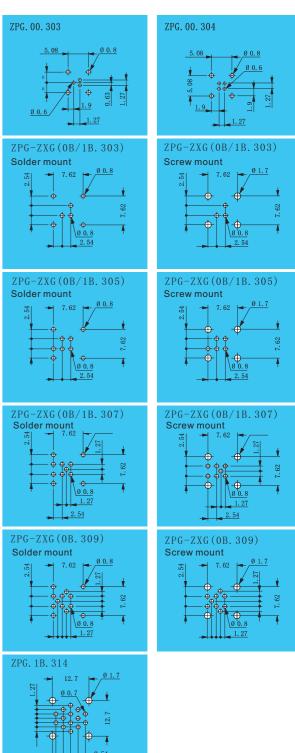
Fixed socket with elbow print contact (B-K series)



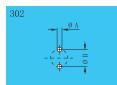


Elbow socket (90°) for printed circuit (B series)

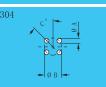




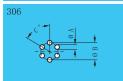
Fixed socket with straight print contact (S-E series)



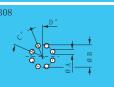
Series	Dimensions(mm)				
Selles	A	В			
0S-0E	0.6	2. 2			
1S-1E	0.8	3. 0			



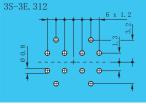
0:	Dimensions(mm)					
Series	A	В	С			
OS-OE	0.6	2.8	45°			
1S-1E	0.8	3. 5	45°			
2S-2E	0.8	5. 0	45°			

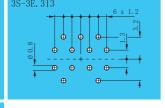


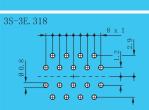
Series	Dimensions(mm)					
Selles	A	В	С			
1S-1E	0.8	3. 5	60°			
2S-2E	0.8	5. 5	60°			
3S-3E	0.8	6. 5	60°			



Series	Dimensions(mm)					
Series	A	В	С	D		
2S-2E	0.8	6. 5	45°	22 °30'		
3S-3E	0.8	7.8	45°	22 °30'		





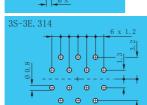


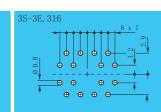
303	C° V O	
	→1 0 R 	

Ø B	0S-0E 1S-1E 2S-2E	
	Sorios	

	<i>D</i> •	-		4
307		D°	+	<u>"</u> ↓

310 _D °
e 1 -
000
9- 0 -11-1
Ø A





Dimensions(mm)

2.8

3. 5

5. 5

Dimensions(mm)

0.8 5.5 60° 60°

Dimensions(mm)

45° 22°30' 2.75 3.25 45° 22°30' 3.25 3.90

Dimensions(mm) A B C D E
 0.8
 6.5
 45°
 22°30'
 1.25

 0.8
 7.8
 45°
 22°30'
 1.50

0.6 0.8

0.8 3.5

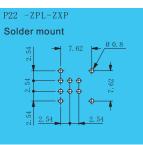
45°

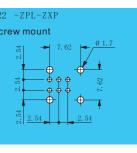
45°

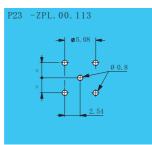
60° 45°

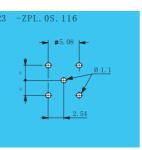
Note: all views are from the side of the socket.

Elbow socket (90°) for printed circuit (\$ series)







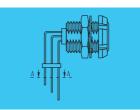


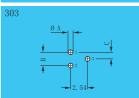
Note: all dimensions are in millimeters(mm).

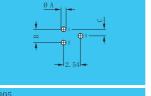
Fixed socket with elbow print contact (S-E series)

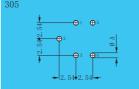
A B C

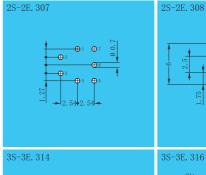
0.7 2.48 1.24

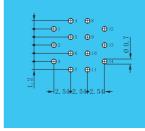






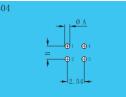




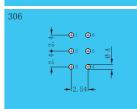




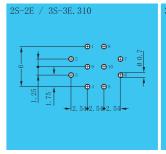


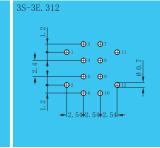


	Dimensions(mm)				
Series	A	В			
0S-0E	0.7	2.00			
1S-1E	0.7	3. 50			
2S-2E	0.9	3. 50			
	1S-1E	Series A 0S-0E 0.7 1S-1E 0.7			





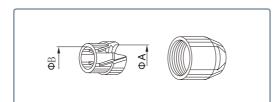


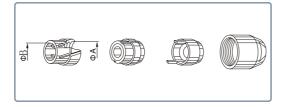


Collets

D and M type collets for B series

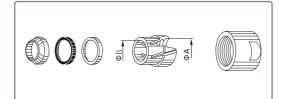
	Reference		Coll	let ø	Cab	le ø
	Туре	Code	ФА	ФВ	max.	min.
00	D	27	2.7	-	2.6	2.1
0B	D	32	3.2	-	3.0	2.1
,	D	42	4. 2	-	4.0	3.1
	D	52	5.2	4. 7	5.0	4. 1
1B	М	31	3.1	-	3.0	2.6
,	D	42	4. 2	-	4.0	3.1
	D	52	5.2	-	5.0	4. 1
	D	62	6. 2	_	6.0	5. 1
	D	72	7. 2	6. 7	7. 0	6. 1
2B	М	42	4. 2	-	4.0	3. 1
	D	52	5.2	-	5.0	4. 1
	D	62	6. 2	-	6. 0	5.1
	D	72	7. 2	-	7.0	6. 1
	D	82	8.2	-	8.0	7. 1
	D	92	9. 2	8.6	9.0	8. 1
	D	99	9.9	8.6	9. 7	9. 1

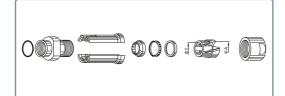




C and K type collets for K series

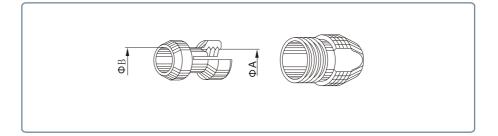
	Refer	ence	Col	let ø	Cab	le ø
	Туре	Code	ФА	ФВ	max.	min.
0K	С	30	3.1	-	3.0	2.6
	С	40	4.2	4.2	4.0	3.6
	С	45	5.2	5.2	4.5	4.1
	С	50	5.2	5.2	5.0	4.6
1K	С	45	5.2	-	4.5	4.1
	С	50	5.2	-	5.0	4.6
	С	55	6.2	6.2	5.5	5.1
	С	60	6.2	6.2	6.0	5.6
	K	70	7.2	-	7.0	6.6
2K	С	65	7.2	-	6.5	6.1
Í	С	70	7.2	-	7.0	6.6
	С	85	9.2	8.6	8.5	8.1
	K	11	11.2	10.6	10.5	10.1

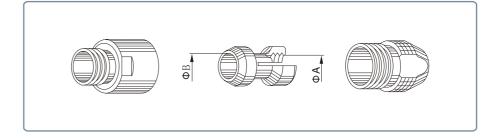


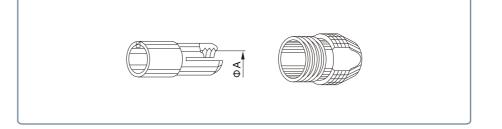


C,K and L type collets for S series

	Reference		Collet ø		Cable ø		
	Туре	Code	ФА	ФВ	max.	min.	
00	С	27	2.7	-	2.6	2.2	
	K	37	3.7	_	3.6	3.0	
08	С	27	2.7	_	2.6	2.2	
	С	32	3.2	_	3.1	2.7	
	С	42	4.2	3.7	4.1	3.3	
	K	47	4.7	_	4.6	3.8	
15	С	32	3.2	-	3.1	2.6	
	С	42	4.2	_	4.1	3.3	
	С	47	4.7	-	4.6	3.8	
	С	52	5.2	_	5.1	4.3	







Accessories

BRF Socket caps for B series

· Shell material: brass chrome plated

• Lanyard material: stainless steel

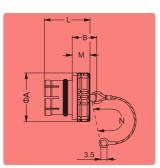
• O-ring: silicone rubber

• Maximum operating temperature: 135°C

• Waterproof grade: IP50

Part number	Series		Dimen	sions	(mm)	
Part number	Series	Α	В	L	М	N
BRF.0B.200	0S-0B	10	9.5	10.5	4.5	85
BRF.1B.200	1S-1B	14	11.0	12.5	5.0	85
BRF.1B.200	2S-2B	18	12.0	14.0	6.0	85





BFG Plug caps for B series, with key (G)

· Shell material: brass chrome plated

· Lanyard material: stainless steel

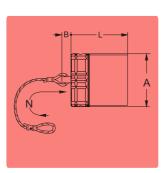
• O-ring: silicone rubber

• Maximum operating temperature: 135°C

• Waterproof grade: IP50

Part number	Series	Dimensions (mm)			
Partnumber	Series	А	В	L	N
BFG.0B.100	0S-0B	9.5	4.7	12.3	85
BFG.1B.100	1S-1B	11.8	6.2	13.8	85
BFG.2B.100	2S-2B	14.9	6.0	13.1	85





BRF Socket caps for K series

• Shell material: brass chrome plated

· Lanyard material: stainless steel

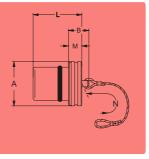
• O-ring: silicone rubber

• Maximum operating temperature: 135°C

• Waterproof grade: IP65~68

Part number	Series	Dimensions (mm)				
Part number	Series	Α	В	L	М	N
BRF.0K.200.NAS	0K	15.0	10	15.0	4	85
BRF.1K.200.NAS	1K	17.0	12	20.0	6	85
BRF.2K.200.NAS	2K	20.5	14	24.0	8	85





BFG Plug caps for K series, with key (G)

• Shell material: brass chrome plated

· Lanyard material: stainless steel

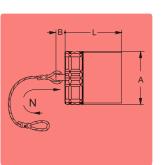
• O-ring: silicone rubber

• Maximum operating temperature: 135°C

• Waterproof grade: IP65~68

Part number	Series-	Dimensions (mm)				
rai t iluilibei	Series	А	В	L	N	
BFG.0K.100.NAS	0K	14.0	6	12.5	85	
BFG.1K.100.NAS	1K	16.0	6	15.5	85	
BFG.2K.100.NAS	2K	19.5	6	17.5	85	





BRF Socket caps for T series

· Shell material: brass chrome plated

· Lanyard material: stainless steel

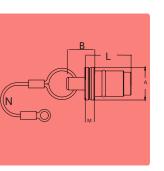
O-ring: silicone rubber

• Maximum operating temperature: 135°C

• Waterproof grade: IP65~68

5 / 1			Dime	nsions	(mm)	
Part number	Series	Α	В	L	М	N
BRF.0T.200	0T-0B	9	7.7	12.7	2.7	85
BRF.1T.200	1T-1B	12	9.5	14.4	3.5	85
BRF.2T.200	2T-2B	15	10.4	16.3	4.4	85





BFG Plug caps for T series, with key (G)

· Shell material: brass chrome plated

· Lanyard material: stainless steel

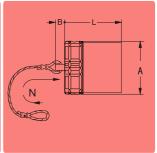
· O-ring: silicone rubber

• Maximum operating temperature: 135°C

• Waterproof grade: IP65~68

Part number	Series	1	Dimensi	ons (mm	ns (mm)		
Faitilullibei	Series	А	В	L	N		
BRG.0T.100	0T-0B	9	5.0	11.0	85		
BRG.1T.100	1T-1B	12	6.0	12.4	85		
BRG.2T.100	2T-2B	15	6.0	13.8	85		





GRA Insulating washers(color wheel)

Sockets or plugs mounted on panels can be fitted with insulating washers.

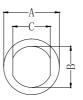
Part number	Series	Dimensions (mm)					
Fart number	Series	Α	В	С	D		
GRA.0B.269.GG	0S-0B	11.6	9.2	8.3	1.1		
GRA.1B.269.GG	1S-1B	15.6	12.2	10.7	1.1		
GRA.2B.269.GG	2S-2B	20.6	15.2	14.2	1.3		
GRA.3B.269.GG	3S-3B	24.6	18.2	17.2	1.3		

Ref.	Color	Ref.	Color
А	blue	N	black
В	white	R	red
G	grey	S	orange
J	yellow	V	green
М	brown		





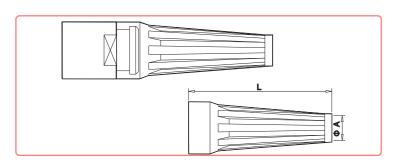




GM· Bend relief(PU)

The bend relief is made of polyurethane material, abbreviated PU. PU contains strong polar carbamate group, insoluble in non-polar groups, has good oil resistance, toughness, wear resistance, aging resistance and adhesion. Can be installed in ZHJM plug and socket, protect the cable.

Temperature range in dry atmosphere:-40°C,+80°C



Ref.	Color	Ref.	Color
Α	blue	N	black
В	white	R	red
G	grey	S	orange
J	yellow	V	green
M	brown		

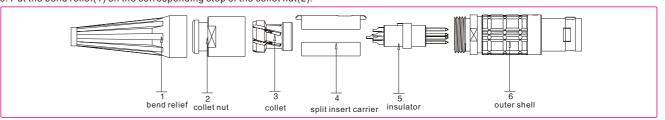
		Dimensions (mm)					
Series	Part number	Bend	relief	Cable ø			
		Α	L	max.	Min		
00	GMA.00.028.DG	2.8	22	3.1	2.8		
0B 0S	GMA.0B.030.DG	3.0	24	3.4	3.0		
	GMA.0B.040.DG	4.0	24	4.4	4.0		
	GMA.0B.045.DG	4.5	24	5.2	4.5		
	GMA.0B.052.DG	5.2	24	5.6	4.5		
1B 1S	GMA.1B.040.DG	4.0	30	4.4	4.0		
	GMA.1B.045.DG	4.5	30	4.9	4.5		
	GMA.1B.054.DG	5.4	30	6.0	5.4		
	GMA.1B.065.DG	6.5	30	7.0	6.5		
2B	GMA.2B.050.DG	5.0	36	5.5	5.0		
,	GMA.2B.060.DG	6.0	36	6.5	6.0		
	GMA.2B.070.DG	7.0	36	7.7	7.0		
	GMA.2B.080.DG	7.8	36	8.8	7.8		



Plug assembly Instructions

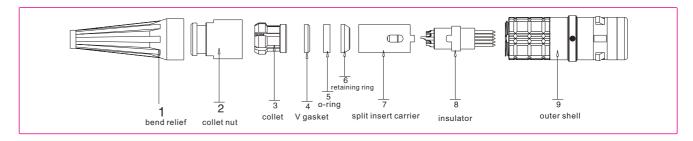
B series straight plug

- 1. Pass the cable through the bend relief(1), the collet nut(2) and the collet(3), and solder the cable to the insulator(5) assembly in accordance with the sequence;
- 2. Install the split insert carrier(4) on the soldered insulator(5) assembly. Note that the window on the split insert carrier(4) corresponds to the bulge on the insulator(5) assembly;
- 3. Clamp the collet(3) to the appropriate position of the cable, and pay attention to the bulge on the collet(3) corresponding to the groove on the insulator(4) clasp;
- 4. Push the insulator(5) assembly, insulator(4) and collet(3) into the plug assembly in turn, and pay attention to the bulge on the insulator(4) clasp corresponding to the gap in the outer shell(6) assembly;
- Tighten the collet nut(2) to the outer shell(6) assembly;
- 6. Put the bend relief(1) on the corresponding step of the collet nut(2).



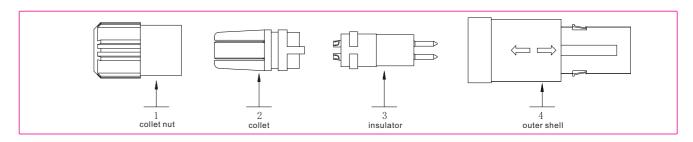
K series straight plug

- 1. Pass the cable through the bend relief(1), the collet nut(2), the collet(3), the V gasket(4), the o-ring(5) and the retaining ring(6), and solder the cable to the insulator(8) assembly in accordance with the sequence;
- 2. Install the split insert carrier(7) on the soldered insulator(8) assembly. Note that the window on the split insert carrier(7) corresponds to the bulge on the insulator(8) assembly, push retaining ring(6), o-ring(5), V gasket(4), collet(3) in turn to the appropriate position, to ensure that the complete skin of the cable inserted into retaining ring(6);
- 3. Insert the installed insulator(8) into outer shell(9), noting that the notch in split insert carrier(7) corresponds to the bulge in outer shell(9);
- 4. Tighten the collet nut(2) to the outer shell(9) assembly;
- 5. Put the bend relief(1) on the corresponding step of the collet nut(2).



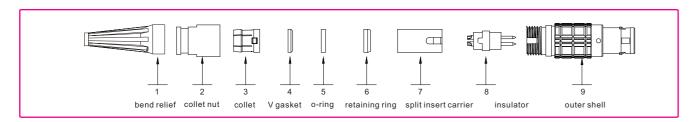
P series straight plug

- 1. Pass the cable through the collet nut(1), the collet(2), and solder the cable to the insulator(3) assembly in accordance with the sequence;
- 2. Install the collet(2) on the soldered insulator(3) assembly. Note that the bump in collet(2) corresponds to the notch in insulator(3);
- 3. Mount the insulator(3) components into outer shell(4), noting that the bulge on collet(2) is mounted to correspond to the groove in outer shell(4);
- 4. Insert collet nut(1) into outer shell(4) ,tighten the collet nut(1).



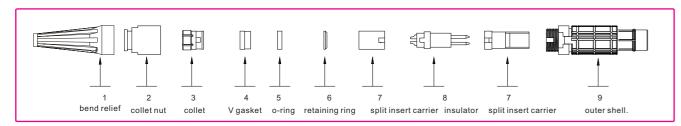
T series straight plug

- 1. Pass the cable through the bend relief(1), the collet nut(2), the collet(3), the V gasket(4), the o-ring(5) and the retaining ring(6), and solder the cable to the insulator(8) assembly in accordance with the sequence;
- 2. Install the split insert carrier(7) on the soldered insulator(8) assembly. Note that the window on the split insert carrier(7) corresponds to the bulge on the insulator(8) assembly, push retaining ring(6), o-ring(5), V gasket(4), collet(3) in turn to the appropriate position, to ensure that the complete skin of the cable inserted into retaining ring(6);
- 3.Insert the installed insulator(8) into outer shell(9), noting that the notch in split insert carrier(7) corresponds to the bulge in outer shell(9);
- 4. Tighten the collet nut(2) to the outer shell(9) assembly;
- 5. Put the bend relief(1) on the corresponding step of the collet nut(2).



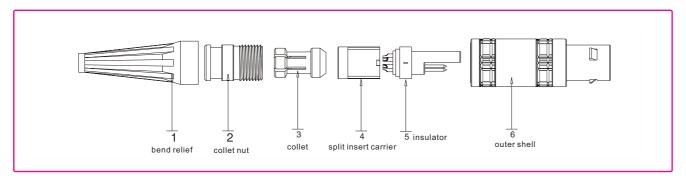
F series straight plug

- 1. Pass the cable through the bend relief(1), the collet nut(2), the collet(3), the V gasket(4), the o-ring(5) and the retaining ring(6), and solder the cable to the insulator(8) assembly in accordance with the sequence;
- 2. Install the split insert carrier(7) on the soldered insulator(8) assembly. Note that the window on the split insert carrier(7) corresponds to the bulge on the insulator(8) assembly, push retaining ring(6), o-ring(5), V gasket(4), collet(3) in turn to the appropriate position, to ensure that the complete skin of the cable inserted into retaining ring(6);
- 3.Insert the installed insulator(8) into outer shell(9), noting that the notch in split insert carrier(7) corresponds to the bulge in outer shell(9);
- 4. Tighten the collet nut(2) to the outer shell(9) assembly;
- 5. Put the bend relief(1) on the corresponding step of the collet nut(2).



S series straight plug

- 1. Pass the cable through the bend relief(1), the collet nut(2) and the collet(3), and solder the cable to the insulator(5) assembly in accordance with the sequence;
- 2. The assembled components are pushed into outer shell(6);
- 3. Tighten the collet nut(2) to the outer shell(6) assembly;
- 4. Put the bend relief(1) on the corresponding step of the collet nut(2).

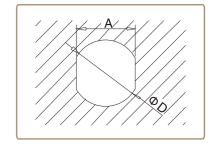


Coaxial connector

Series	Ref.	Contact type	Test voltage	Rated current	Contact ø	Shell size
00S	107	solder	1000V	7A	0.7mm	
0S	113	solder	1200V	8A	1.3mm	
03	116	solder	1500V	12A	1.6mm	
	113	solder	800V	8A	1.3mm	Refer to the S series TFA straight plug and ZRA
1S	1S 116	solder	1500V	12A	1. 6mm	socket
	120	solder	1500V	12A	2.0mm	
2S	250	solder	1700V	18A	2.0mm	
0F	113	solder	1200V	8A	1.3mm	Refer to the 0F series
1W	116	solder	1500V	12A	1. 6mm	Refer to the 1W series
1E	116	solder	1500V	12A	1. 6mm	Refer to the 1K series



Panel cut-outs



Α	00	0B	1B	2B	3B	4B	0K	1K	2K	3K	0S	1S	2S	
	6.3	8.3	10.6	13.6	16.6	23.5	12.5	14.6	18.6	22.5	8.3	10.6	13.5	
D	7.1	9.1	12.1	15.1	18.1	25.1	14.1	16.1	20.1	24.1	9.1	12.1	15.1	

Fixed socket with straight print contact (S series)

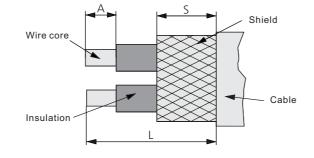
Contact NO.	Туре	0S	1S
ФА	А	0.8	0.8
302	D	2.2	3.0
ФА	А	0.8	0.8
304	D	2.8	3.5
ФА	А		0.8
306	D		3.5

Contact NO.	Туре	0S	1S
ФА	А	0.8	0.8
303	D	2.8	3.5
	А		0.8
305	D		3.5

Wire harness machining scheme:

Cable harness processing:

	S	traight pl	ug	Elbow (90°) plug			
Size	Solder			Solder			
	L	Α	S	L	Α	S	
00	5	2	2	11	2	2	
0	7	2	2.5	16	2	2.5	
1	9	2	2.5	18	2	2.5	
2	11	2	2.5	27	2	2.5	
3	13	2	2.5	30	2	2.5	



Unit:mm,公差:+10%:Unit: mm, tolerance: +10%

Matters needing attention in solder

- The outer diameter of the cable should match the size of the collet
- Contact specification should be in line with contact end diameter
- The temperature of the electric iron is controlled at about 380°C (lead-free)
- The single contact solder time is less than 1 second
- After solder, each contact should be covered with heat shrinkable tube insulation
- Pay attention to the protection of pins and insulators during solder.



Cable processing application scheme













Harness display

Harness display





Testing and production equipment:

Precision wire testing machine:

Used to test short circuit, wrong line, insulation, withstand voltage, capacitance between lines of cable assembly; It can also test the secondary pipe of the component, resistance components, etc.

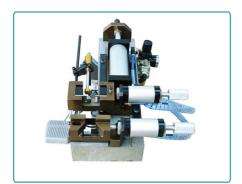


Injection molding machine:

Vertical mold locking, vertical injection, small footprint, dexterity and precision; Adopts computer control, each section temperature control, injection speed, back pressure can be infinitely adjusted. (Used for product and wire harness taping).



Wire stripping machine



Wire stripping machine



Winding machine



Integrated cutting and stripping machine

CNC machine tool



Line



Milling machine



Machining center

