

B Series Metal Circular Push Pull Connector

Main features

- ▲ Push pull locking;
- ▲ Terminal Style: Soldering, Print PCB, Print PCB right angle
- ▲ Different codings
- ▲ 360 degree EMC Shielding;
- ▲ 2-40 contacts
- ▲ Metal shell, Brass gold plated contacts.
- ▲ PPS or PEEK Insulator

Technologies

Mechanical properties and environmental factors

- ▲ Mating cycles : > 5000 ;
- ▲ Humidity : 95%, 60 centigrade
- ▲ Working temperature: 00° (PPS)
-55° ~ +250° (PEEK)
- ▲ Vibration : 10-2000Hz, 15g ;
- ▲ Shock : 100g/6ms ;
- ▲ Salt spray corrosion resistance : >96h ;
- ▲ Protection level : IP50 ;



Part number rule

Plug / Free Receptacle

FG G.0B.3 03.C P A R D 32 Z B

Shell type:1

Z: Back nut with bend relief

Cable collet:13

Cable collet style:12

Fixed receptacle

EG G.0B.3 03.C P L R-Q30

Model: 2

Coding : 3

Size and Series: 4

Contact style : 5

Contact number: 6

Shell and surface: 7

Variable parameters : 11

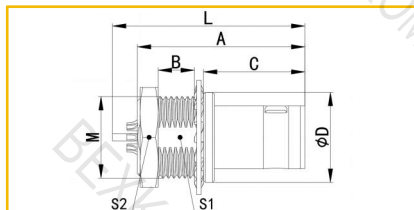
Identification point:10

Terminal style: 9

Insulator material: 8

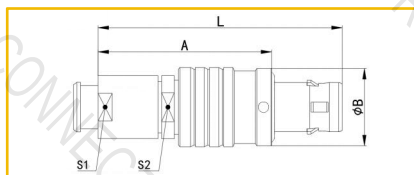
Dimension

FAG-Fixed plug, no locking, back nut fixed



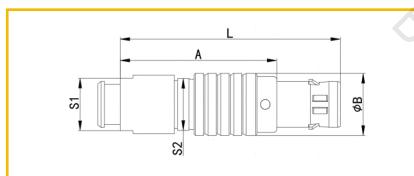
Size	L	A	B _{max}	C	φD	M	S1	S2
00B	≈ 18.1	15	2.9	9	8	M7*0.5	6.3	9
0B	≈ 20.8	18.9	4.2	11.5	10	M9*0.6	8.2	11
1B	≈ 25.2	21.6	5.4	12.5	14	M12*1	10.5	14
2B	≈ 28.7	23.9	6	13.8	18	M15*1	13.5	17
3B	≈ 32.1	30.2	5.8	17	22	M18*1	16.5	22
4B	≈ 37.1	34.7	6.8	20.5	29	M25*1	23.5	30

FEG-Straight plug, G, A~L coding, with bend relief/No bend relief, waterproof IP54 (mating)



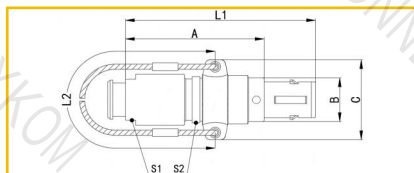
Size	L	A	φB	S1	S2			
0B	≈ 35	25	11	7	8			
1B	≈ 42	33	13.5	9	10			
2B	≈ 48	36	16.5	12	13			
3B	≈ 56.5	41.5	19	15	15			

FGG-Straight plug, G, A~L coding, with bend relief/No bend relief

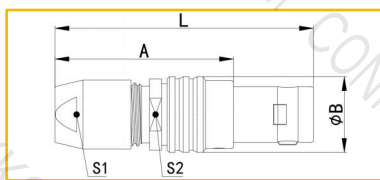


Size	L	A	φB	S1	S2			
00B	≈ 27.5	19.5	6.4	6	5.4			
0B	≈ 35	25	11	7	8			
1B	≈ 42	33	13.5	9	10			
2B	≈ 48	36	16.5	12	13			
3B	≈ 56.5	41.5	19	15	15			

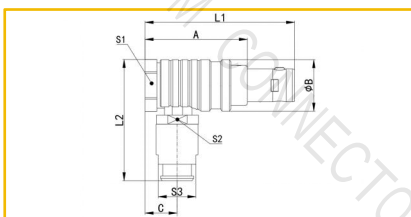
FNG-Straight plug, G, A~L coding, with bend relief/No bend relief



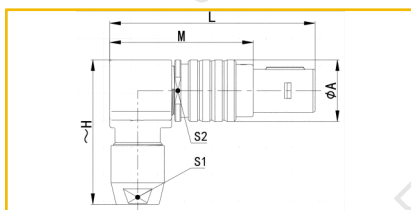
Size	L1	L2	A	B	C	S1	S2
0B	≈ 36	≈ 140	26	9.5	15.5	7	8
1B	≈ 42	≈ 140	32	12	18	9	10
2B	≈ 48	≈ 160	37	15	21	12	13

JGG-Straight plug, G,A~L coding, with bend relief/No bend relief


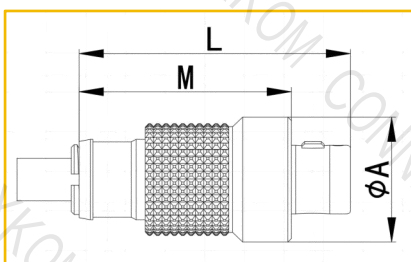
Size	L	A	ϕB	S1	S2
0B	≈ 32	≈ 22	9.5	7	8

FHG-90° Right angle plug, G,A~L coding, with bend relief/No bend relief


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

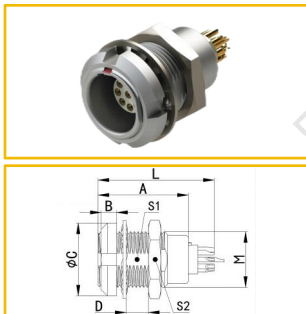
FSG-90° Adjustment right angle plug, G,A~L coding, with bend relief/No bend relief


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

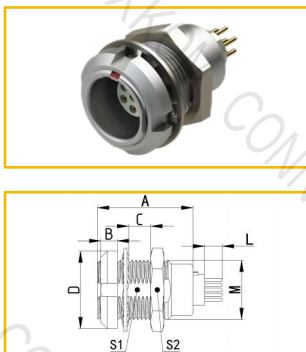
FVB-Straight plug, screw locking, B coding, short shell, special crimp terminal and fixed bend relief


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

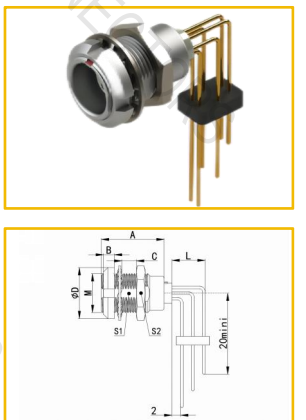
Remark : Special bend relief

ECG-Fixed receptacle, double nut, G, A~L coding, back panel mount


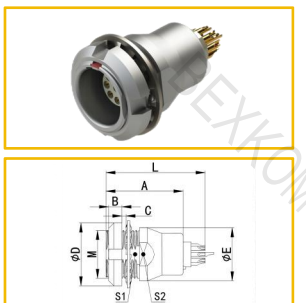
Size	L max	A	B	φC	D max	M	S1	S2
00B	≈ 15.7	12	2.5	10	4.3	M7*0.5	6.3	9
0B	≈ 19.2	14.5	2.5	12	5.5	M9*0.6	8.2	11
1B	≈ 21.5	16.5	3.5	16	6	M12*1	10.5	14
2B	≈ 26.7	18.5	3.5	20	6.5	M15*1	13.5	17
3B	≈ 30.7	22	4.5	23	9	M18*1	16.5	22

ECG-Fixed receptacle, G, A~L coding, PCB print terminal (back panel mount)


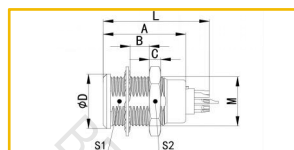
Size	A	B	C max	φD	M	S1	S2
00B	12	2.5	10	4.3	M7*0.5	6.3	9
0B	14.5	2.5	12	5.5	M9*0.6	8.2	11
1B	16.5	3.5	16	6	M12*1	10.5	14
2B	18.5	3.5	20	6.5	M15*1	13.5	17
3B	22	4.5	23	9	M18*1	16.5	22

ECG-Fixed receptacle, double nut, G, A~L coding, PCB print terminal (back panel mount)


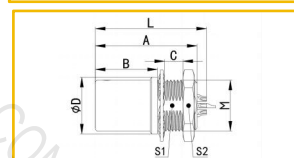
Size	A	B	φC	D max	M	S1	S2
00B	12	2.5	10	4.3	M7*0.5	6.3	9
0B	14.5	2.5	12	5.5	M9*0.6	8.2	11
1B	16.5	3.5	16	6	M12*1	10.5	14
2B	18.5	3.5	20	6.5	M15*1	13.5	17
3B	22	4.5	23	9	M18*1	16.5	22

EEG-Fixed receptacle, front nut fixed, G, A~L coding, (back panel mount)


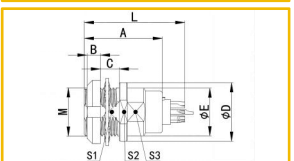
Size	L	A	B	C max	φD	φE	M	S1	S2
00B	≈ 15.5	12	2.5	2.3	10	8	M7*0.5	6.4	7.5
0B	≈ 20.7	14.5	2.5	2.4	12	10	M9*0.6	8.2	9
1B	≈ 23	16.5	3.5	6.5	16	14	M12*1	10.5	13
2B	≈ 26.7	18.5	3.5	4.3	20	18	M15*1	13.5	15
3B	≈ 30.7	22	4.5	6.1	23	22	M18*1	16.5	20

EGG-Fixed receptacle ,back Nut , coding G,A~L


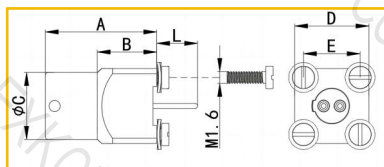
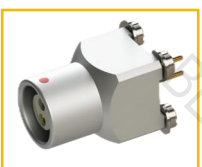
Size	L	A	B max	C	φD	M	S1	S2
00B	≈ 15.7	12	6	2	8	M7*0.5	6.3	9
0B	≈ 18.8	14.5	7	2	10	M9*0.6	8.2	11
1B	≈ 21.4	16.5	7.5	2.5	14	M12*1	10.5	14
2B	≈ 24	18.5	8.5	2.5	18	M15*1	13.5	17
3B	≈ 28.2	22	11.5	3	22	M18*1	16.5	22
4B	≈ 34	27	12	5	28	M25*1	23.5	30

EHG-Fixed receptacle,back nut fixed,G,A~L coding


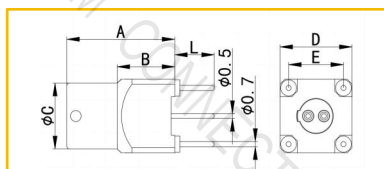
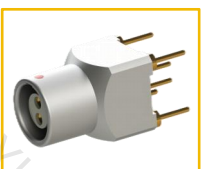
Size	L	A	B	C max	φD	M	S1	S2
00B	≈ 15.7	13.7	8.5	2.2	8	M7*0.5	6.3	9
0B	≈ 20.3	18	11	4	10	M9*0.6	8.2	11
1B	≈ 21.3	19	12	3.5	14	M12*1	10.5	14
2B	25.5	22.5	12.5	6	18	M15*1	13.5	17

EIG-Fixed receptacle, front nut fixed , G,A~L coding , back panel mount


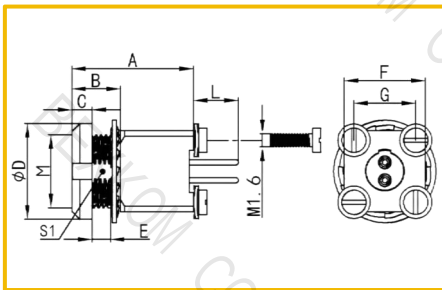
Size	L	A	B	C max	φD	φE	M	S1	S2	S3
0B	≈ 18.7	14.5	2.5	3	11	9	M9*0.6	8.2	11	8.2
1B	≈ 21.3	16.5	3.5	2	15	12	M12*1	10.5	14	10.5

EZG-Straight receptacle, PCB print terminal , G,A~L coding


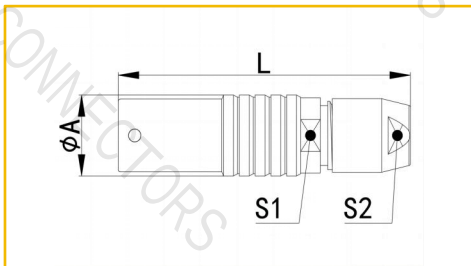
Size	A	B	φC	D	E
0B	15	8	9	10	7.62
1B	20	9	11	12	7.62



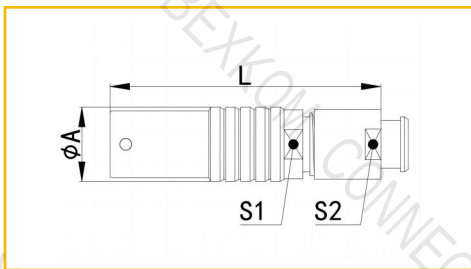
Size	L	A	B	φC	D	E
1B	≈ 5	20	9	11	12	7.62

EYG-Fixed receptacle, front nut fixed, G, A ~ L coding, (back panel mount)


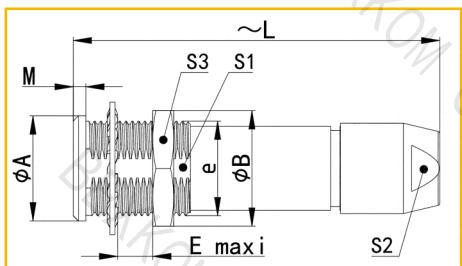
Size	A	B	C	$\varnothing D$	E	M	F	G	S1
0B	15	6	2.5	12	2.6	M9x0.6	10	7.62	8.2
1B	19	10	3.5	14	5	M11x0.5	12	7.62	-
2B	22.5	13.5	3.5	20	7.5	M15x1.0	15	7.62	13.5

PHG-Free receptacle, G, A ~ L coding, back nut without bend relief


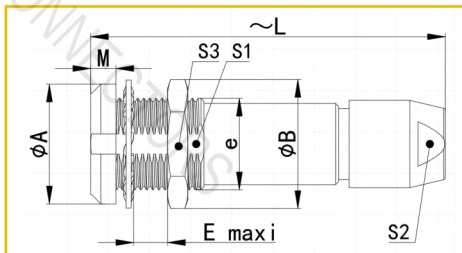
Size	$\approx L$	$\varnothing A$	S1	S2
00B	27.5	7	5.5	5
0B	35.5	9.5	8	7
1B	42	12	10	9
2B	47	16	13	12
3B	56	19	15	14

PHG-Free receptacle, G, A ~ L coding, back nut with bend relief


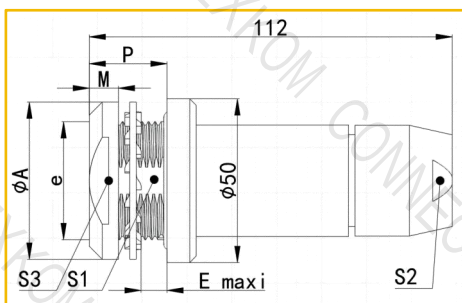
Size	$\approx L$	$\varnothing A$	S1	S2
00B	30	7	5.5	5
0B	34.5	9.5	8	7
1B	39.5	12	10	9
2B	46	16	13	12
3B	54.5	19	15	14

PKG-Fixed receptacle, back nut fixed, G, A~L coding


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

PFG-Fixed receptacle, double nut fixed, G, A~L coding


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

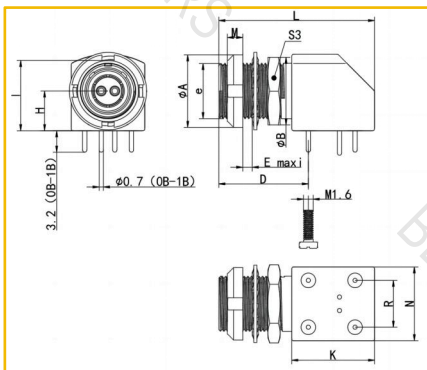
PEG-Fixed receptacle, front nut fixed, G, A~L coding


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

[illegible]

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

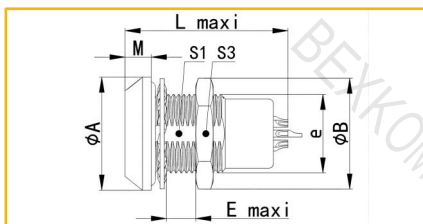
EXG-Fixed right angle receptacle, PCB print terminal , double nut fixed , **G,A~L** coding, Soldering or PCB

[illegible]

13

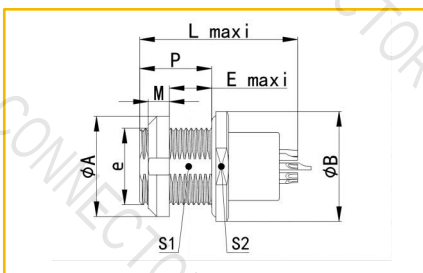
Watertight or vacuum sealed

HGG-Fixed receptacle, back nut fixed, G,A~L coding, watertight or vacuum sealed



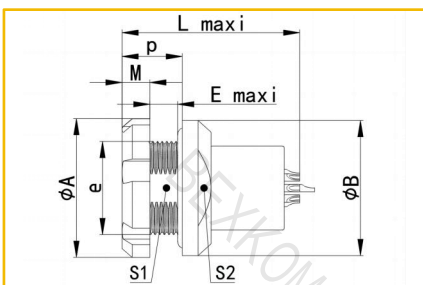
Size	A	B	e	E	L	M	S1	S3
0B	13	12.4	M9*0.6	7	21.5	3	10.5	14
1B	18	15.8	M12*1	7	26.6	4.5	13.5	17
2B	20	19.2	M15*1	8	31.6	4	16.5	22

HEG-Fixed receptacle, front nut fixed, A,G~L coding, watertight or vacuum sealed, back panel mount



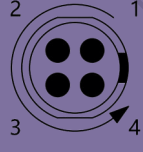
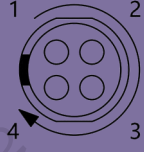
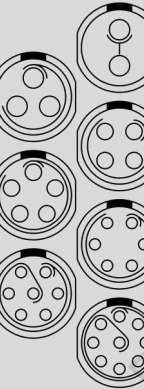
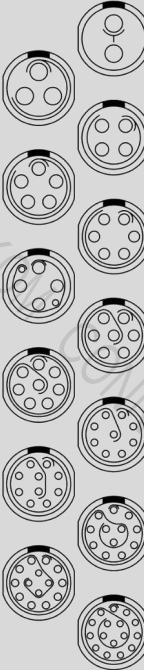
Size	A	B	e	E	L	M	P	S1	S3
0B	12	13	M9*0.6	5.5	21.5	2.5	9	10.5	-
1B	16	18	M12*1	6.5	26.6	3.5	11	13.5	-
2B	20	20	M15*1	5	31.6	3.5	9.6	16.5	15

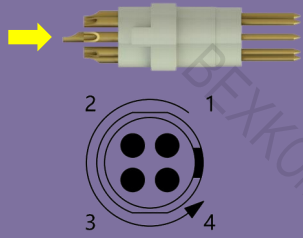
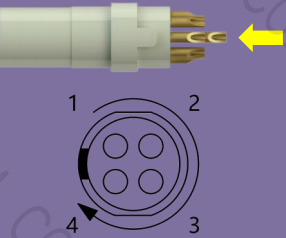
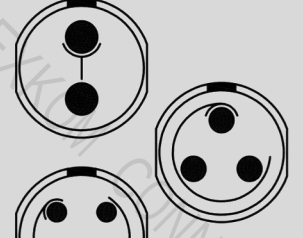
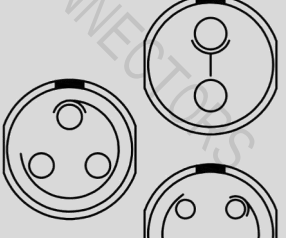
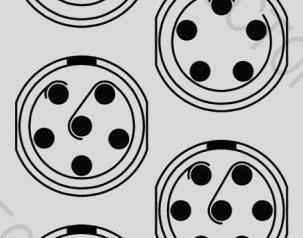
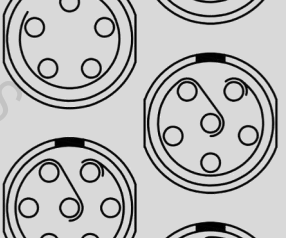
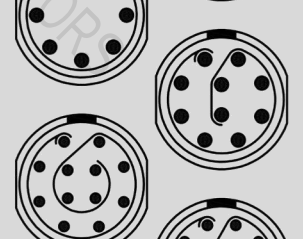
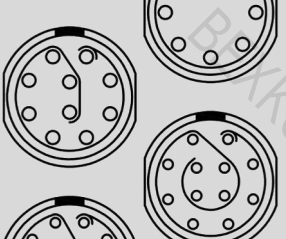
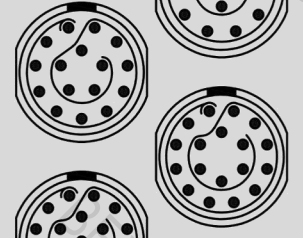
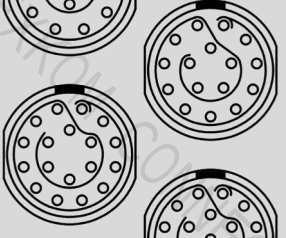
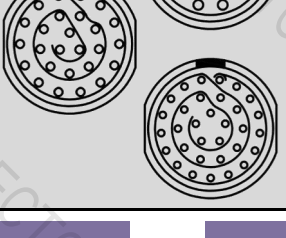
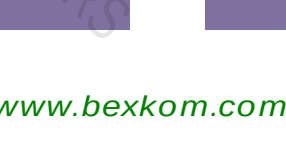
G8-Fixed receptacle, front nut fixed, G,A~L coding, watertight or vacuum sealed (back panel mount)



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

Pin configuration (B、K、T、W Series)

Size	Solder male contact 	Solder female contact 	Code	Contact number	Contact Diameter	Contact Type			Voltage Contact - Contact Testing Vol. (V)	Current rate (A)
						Solder Contact	Print PCB Contact	Print PCB Contact Right Angle		
00			302	2	0.5	•	•	•	900	3.5
			303	3	0.5	•	•	•	700	3.0
			304	4	0.5	•	•	•	700	2.0
			305	5	0.35	•	-	•	600	1.7
0B 0K 0T			302	2	0.9	•	•	•	900	10.0a
			303	3	0.9	•	•	•	700	8.0a
			304	4	0.7	•	•	•	600	7.0a
			305	5	0.7	•	•	•	600	6.5a
			306	6	0.5	•	•	•	600	2.5
			307	7	0.5	•	•	•	550	2.5
			309	9	0.5	•	•	•	450	2.0
1B 1K 1T			302	2	1.3	•	•	•	1300	15.0b
			303	3	1.3	•	•	•	1100	12.0
			304	4	0.9	•	•	•	1200	10.0a
			305	5	0.9	•	•	•	1100	9.0a
			306	6	0.7	•	•	•	950	7.0a
			406	4+2	0.9/0.5	•	•	○	750	6.3/1.8
			307	7	0.7	•	•	•	850	7.0a
			308	8	0.7	•	•	•	850	5.0
			310	10	0.5	•	•	•	800	2.5
			312	12	0.5	•	•	•	800	2.5
			314	14	0.5	•	•	•	700	2.0
			316	16	0.5	•	•	○	700	1.5

	Male	Female	Code	Contact numbers	Contact diameter	Contact type			Contact-Contact Test voltage (V)	Current (A)
						Solder contact	Print PCB contact	Print PCB right angle		
2B 2K 2T 2W			302	2	2.0	•	•	•	1900	25.0
			303	3	1.6	•	•	•	2100	17.0
			304	4	1.3	•	•	•	1600	15.0
			305	5	1.3	•	-	•	1600	14.0
			306	6	1.3	•	•	•	1200	12.0
			307	7	1.3	•	•	•	1600	11.0
			308	8	0.9	•	•	•	1350	10.0
			310	10	0.9	•	•	•	1300	8.0
			312	12	0.7	•	•	•	1100	7.0
			314	14	0.7	•	•	•	1000	6.5
			316	16	0.7	•	•	•	850	6.0
			318	18	0.7	•	•	•	750	5.5
			319	19	0.7	•	•	•	850	5.0
			326	26	0.5	•	•	○	850	2.0
			332	32	0.5	•	•	○	700	1.5