



RM-B Series

Metal Push Pull Self-locking connector

- Secure high performance push pull self-locking system
- High pin density contributing to equipment miniaturization
- Alignment Key and Polarized Keying System to avoid cross-interface
- 360° EMC shielded
- Robust and shock resistant designs
- Functional in a wide temperature range from -50°C to +250°C
- Available solder , PCB and right angle PCB contact



RM-B Series

Plugs



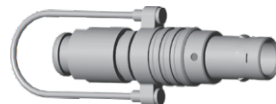
FGG



FEG



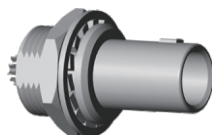
FFG



FNG



FHG



FAG

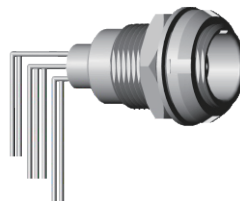
Receptacles



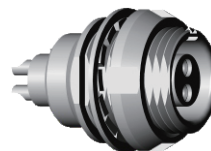
EGG



ECG



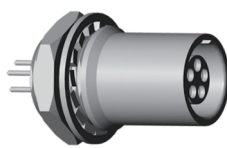
ECG



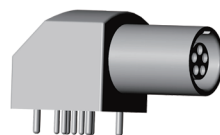
EEG



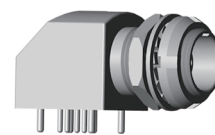
EFG



EHG



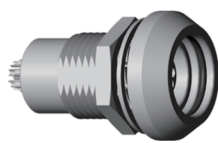
EPG



EXG



HGG



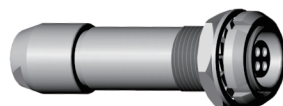
HHG



HEG



RGG

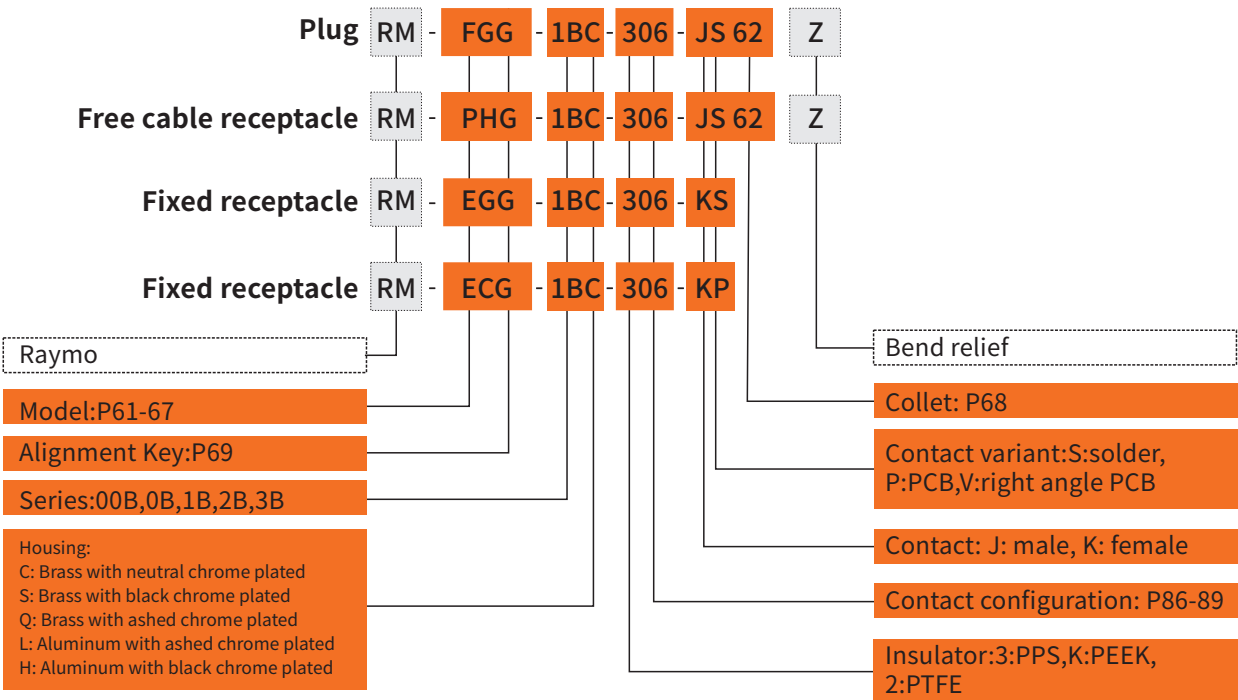


PFG



PHG

Part Numbering System



Part No.Example

Straight plug with cable collet

RM-FGG-1BC-306-JS62Z straight plug with key (G) and cable collet, 1B series, multipole 6 contacts, outer shell in natural chrome-plated brass, PPS insulator, male solder contacts, collet for 5.2-6.2mm diameter cable, nut for fitting a bend relief.

Free cable mount receptacle

RM-PHG-1BC-306-KS62 free cable receptacle with key (G) and cable collet, 1B series, multipole 6 contacts, outer shell in natural chrome-plated brass, PPS insulator, female solder contacts, collet for 5.2-6.2 mm diameter cable.

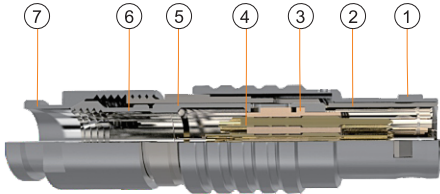
Fixed receptacle

RM-ECG-1BC-306-KP fixed receptacle with two screw nuts, nut fixing, with key (G), 1B series, multipole 6 contacts, outer shell in natural chrome natural-plated brass, PPS insulator, female PCB contacts.

Part Section Showing Internal Components

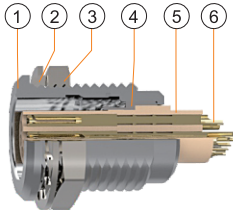
Cable Mount Plug

- ① Outer shell
- ② Latch sleeve
- ③ Insulator
- ④ Male contact
- ⑤ Split insert carrier A/B
- ⑥ Cable collet
- ⑦ Collet nut



Fixed Receptacle

- ① outer shell
- ② Retaining ring
- ③ Hexagonal nut
- ④ Locking washer
- ⑤ Insulator
- ⑥ Female contacts



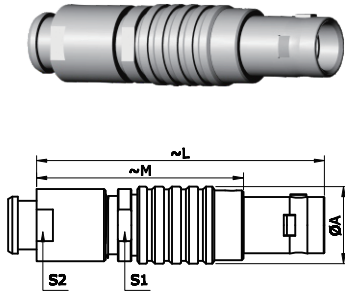
Technical Characteristics

Mechanical and Climatical

Characteristics	Value	Standard
Endurance	>5000cycles	IEC60512-5test9a
Humidity	Up to 95% at 60°C	
Temperature range	-55°C,+250°C	
Resistance to vibration	10-2000Hz,15g	IEC 60512-4 test 6d
Shock resistance	100g,6ms	IEC 60512-4 test 6c
Salt spray corrosion test	>96hrs	IEC 60512-6 test 11f
Protection index (mated)	IP50	IEC 60529
Climatical category	55/175/21	IEC 60068-1

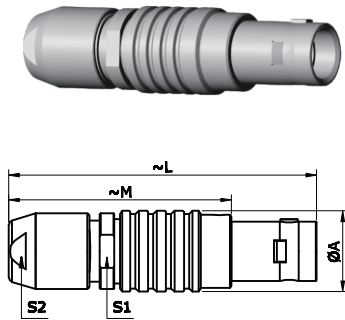
Electrical

Characteristics		Value	Standard
Shielding efficiency	at 10 MHZ	>75 dB	IEC 60619-1-3
	at 1 GHz	>40 dB	IEC 60619-1-3



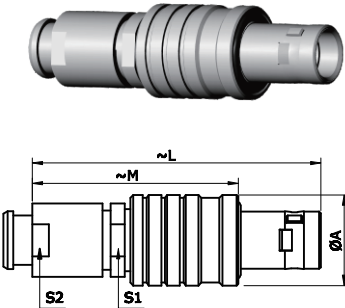
RM-FGG Cable Mount Straight Plug, nut for fitting a bend relief

Reference		Dimensions(mm)				
Model	Series	A	L	M	S1	S2
RM-FGG	00	6.4	28.5	20	5.5	6.0
RM-FGG	0B	9.5	35.0	25.0	8.0	8.0
RM-FGG	1B	12.0	42.0	31.0	10.0	9.0
RM-FGG	2B	15.0	49.0	37.0	13.0	12.0
RM-FGG	3B	18.0	58.5	43.5	15.0	15.0



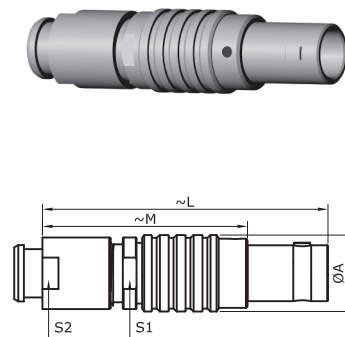
RM-FGG Cable Mount Straight Plug

Reference		Dimensions(mm)				
Model	Series	A	L	M	S1	S2
RM-FGG	00	6.4	28.5	20.5	5.5	5.0
RM-FGG	0B	9.5	36.0	26.0	8.0	7.0
RM-FGG	1B	12.0	43.0	32.0	10.0	9.0
RM-FGG	2B	15.0	50.0	38.0	13.0	12.0
RM-FGG	3B	18.0	58.0	43.0	15.0	14.0



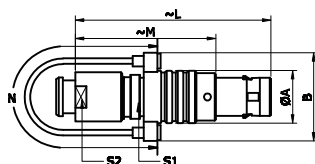
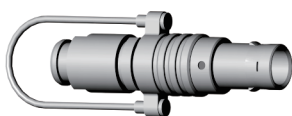
RM-FEG Cable Mount Straight Plug, front sealed, nut for fitting a bend relief

Reference		Dimensions(mm)				
Model	Series	A	L	M	S1	S2
RM-FEG	0B	11.0	35.0	25.0	8.0	8.0
RM-FEG	1B	13.5	42.0	33.0	10.0	9.0
RM-FEG	2B	16.5	48.0	36.0	13.0	12.0
RM-FEG	3B	19.0	56.0	41.5	15.0	15.0



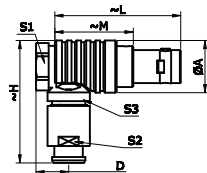
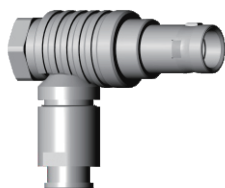
RM-FFG Straight plug, non-latching

Reference		Dimensions(mm)				
Model	Series	A	L	M	S1	S2
RM-FFG	00	6.4	36.5	28.5	5.5	6.0
RM-FFG	0B	9.5	35.0	25.0	8.0	8.0
RM-FFG	1B	12.0	42.0	31.0	10.0	9.0
RM-FFG	2B	15.0	49.0	37.0	13.0	12.0
RM-FFG	3B	18.0	56.5	41.5	15.0	15.0



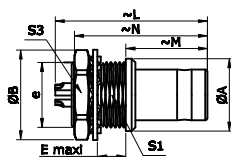
RM-FNG Straight plug,with Lanyard

Reference		Dimensions(mm)						
Model	Series	A	B	L	M	N	S1	S2
RM-FNG	0B	9.5	15.95	34.62	24.3	140	8.0	8.0
RM-FNG	1B	12.0	18.0	43.0	32.0	140	10.0	9.0
RM-FNG	2B	15.0	21.0	49.0	37.0	160	13.0	12.0
RM-FNG	3B	18.0	25.0	58.0	43.0	190	15.0	14.0



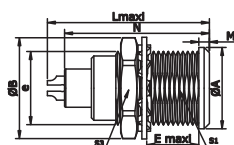
RM-FHG Cable Mounted Elbow Plug,90°

Reference		Dimensions(mm)							
Model	Series	A	D	H	L	M	S1	S2	S3
RM-FHG	0B	11.0	6.5	26.0	31.6	21.6	10.0	8.0	8.0
RM-FHG	1B	13.5	8.0	30.5	36.0	25.0	11.0	9.0	10.0
RM-FHG	2B	16.5	9.0	40.0	37.7	25.6	14.0	12.0	13.0
RM-FHG	3B	19.0	10.0	37.0	50.0	35.0	17.0	14.0	15.0



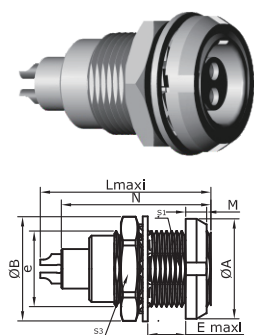
RM-FAG Panel Mount Fixed Plug, non-latching

Reference		Dimensions(mm)								
Model	Series	A	B	e	E	L	M	N	S1	S3
RM-FAG	0B	10.0	12.4	M9*0.6	4.2	20.8	11.5	18.9	8.2	11.0
RM-FAG	1B	14.0	15.8	M12*1.0	5.4	25.2	12.5	21.6	10.5	14.0
RM-FAG	2B	18.0	19.2	M15*1.0	6.0	28.7	13.8	23.9	13.5	17.0
RM-FAG	3B	22.0	25.0	M18*1.0	5.8	32.1	17.0	30.2	16.5	22.0



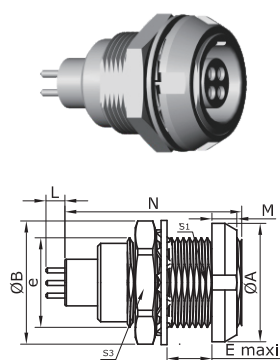
RM-EGG Panel Mount Fixed Receptacle

Reference		Dimensions(mm)								
Model	Series	A	B	e	E	L	M	N	S1	S3
RM-EGG	00B	8.0	10.2	M7*0.5	6.0	15.5	1.0	13.7	6.3	9.0
RM-EGG	0B	10.0	12.4	M9*0.6	7.0	20.7	1.2	19.1	8.2	11.0
RM-EGG	1B	14.0	15.8	M12*1.0	7.5	23.0	1.5	21.1	10.5	14.0
RM-EGG	2B	18.0	19.2	M15*1.0	8.5	26.7	1.8	24.6	13.5	17.0
RM-EGG	3B	21.8	25.0	M18*1.0	11.5	37.1	2.0	24.6	16.5	22.0



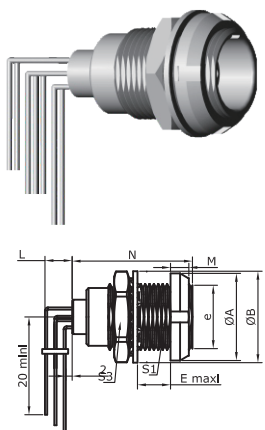
RM-ECG Panel Mount Receptacle with two screw nuts

Reference		Dimensions(mm)								
Model	Series	A	B	e	E	L	M	N	S1	S3
RM-ECG	00B	10.0	10.2	M7*0.5	4.3	13.7	2.5	13.7	6.3	9.0
RM-ECG	0B	12.0	12.4	M9*0.6	5.5	20.7	2.5	16.4	8.2	11.0
RM-ECG	1B	16.0	15.8	M12*1.0	6.0	23.0	3.5	19.8	10.5	14.0
RM-ECG	2B	20.0	19.2	M15*1.0	6.5	26.7	3.5	20.2	13.5	17.0
RM-ECG	3B	24.0	25.0	M18*1.0	9.0	30.7	4.5	25.8	16.5	22.0



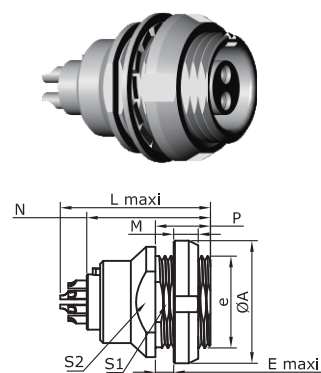
RM-ECG Panel Mount Receptacle with two screw nuts,
straight contact for printed crinted circuit

Reference		Dimensions(mm)								
Model	Series	A	B	e	E	L	M	N	S1	S3
RM-ECG	00B	10.0	10.2	M7*0.5	4.3	13.7	2.5	13.7	6.3	9.0
RM-ECG	0B	12.0	12.4	M9*0.6	5.5	20.7	2.5	16.4	8.2	11.0
RM-ECG	1B	16.0	15.8	M12*1.0	6.0	23.0	2.5	19.8	10.5	14.0
RM-ECG	2B	20.0	19.2	M15*1.0	6.5	26.7	2.5	21.8	13.5	17.0
RM-ECG	3B	24.0	25.0	M18*1.0	9.0	30.7	2.5	25.8	16.5	22.0



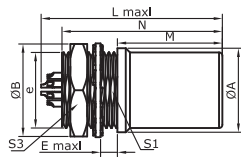
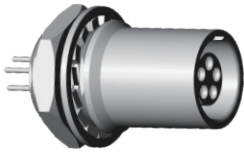
RM-ECG Panel Mount Fixed Receptacle with two screw nuts,
elbow 90° contact for printed circuit

Reference		Dimensions(mm)							
Model	Series	A	B	e	E	M	N	S1	S3
RM-ECG	0B	12.0	12.4	M9*0.6	5.5	2.5	18.3	8.2	11.0
RM-ECG	1B	16.0	15.8	M12*1.0	6.0	3.5	20.3	10.5	14.0
RM-ECG	2B	20.0	19.2	M15*1.0	6.5	3.5	22.3	13.5	17.0
RM-ECG	3B	24.0	25.0	M18*1.0	9.0	4.5	25.8	16.5	22.0



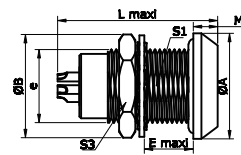
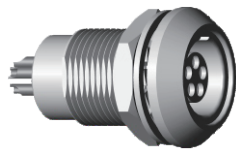
RM-EEG Panel Mount Fixed Receptacle, back panel mounting

Reference		Dimensions(mm)									
Model	Series	A	B	e	E	L	M	N	P	S1	S3
RM-EEG	0B	12.0	12.5	M9*0.6	2.4	20.7	2.5	19.1	6.3	8.2	9.0
RM-EEG	1B	16.0	16.0	M12*1.0	6.5	23.0	3.5	21.1	11.0	10.5	13.0
RM-EEG	2B	20.0	20.0	M15*1.0	3.0	26.7	3.5	24.6	9.0	13.5	15.0



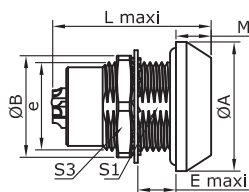
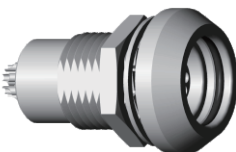
RM-EHG Panel Mount Fixed Receptacles, protruding shell

Reference		Dimensions(mm)								
Model	Series	A	B	e	E	L	M	N	S1	S3
RM-EHG	0B	10.0	12.4	M9*0.6	2.0	19.5	12.5	19.1	8.2	11.0
RM-EHG	1B	14.0	15.8	M12*1.0	4.0	21.7	12.0	21.1	10.5	14.0
RM-EHG	2B	18.0	19.2	M15*1.0	5.1	22.7	12.5	24.6	13.5	17.0



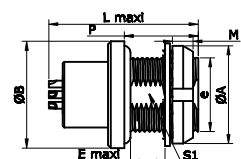
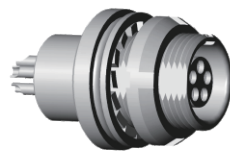
RM-HGG Panel Mount Sealed Fixed Receptacle, front panel mounting

Reference		Dimensions(mm)							
Model	Series	A	B	e	E	L	M	S1	S3
RM-HGG	0B	13.0	12.4	M9*0.6	7.0	21.5	3.0	8.2	11.0
RM-HGG	1B	18.0	15.8	M12*1.0	7.0	26.6	4.5	10.5	14.0
RM-HGG	2B	20.0	19.2	M15*1.0	8.0	31.6	4.0	13.5	17.0



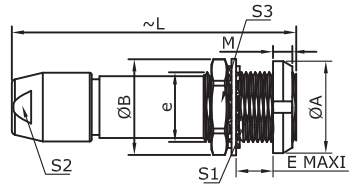
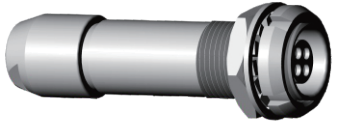
RM-HHG Panel Mounted Sealed Fixed Receptacle, front panel mounting

Reference		Dimensions(mm)							
Model	Series	A	B	e	E	L	M	S1	S3
RM-HHG	0B	13.0	12.4	M9*0.6	7.0	23.2	4.8	8.2	11.0
RM-HHG	1B	18.0	15.8	M12*1.0	7.0	30.3	5.2	10.5	14.0
RM-HHG	2B	20.0	19.2	M15*1.0	8.0	35.6	6.0	13.5	17.0



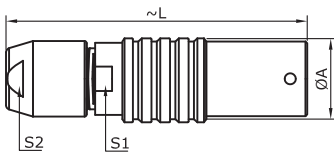
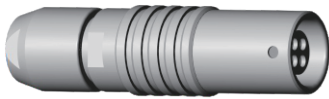
RM-HEG Panel Mount Sealed Fixed Receptacle, back panel mounting

Reference		Dimensions(mm)								
Model	Series	A	B	e	E	L	M	P	S1	S3
RM-HEG	0B	12.0	13.0	M9*0.6	2.5	20.2	2.5	9.0	8.2	-
RM-HEG	1B	16.0	18.0	M12*1.0	5.5	26.6	3.5	11.0	10.5	-
RM-HEG	2B	20.0	20.0	M15*1.0	6.5	31.6	3.5	9.6	13.5	15.0



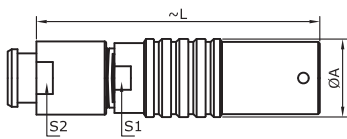
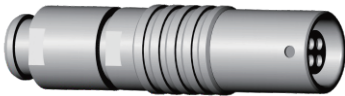
RM-PFG Panel Mount Cable Receptacle, back panel mounting

Reference		Dimensions(mm)								
Model	Series	A	B	e	E	L	M	S1	S2	S3
RM-PFG	0B	12.0	12.4	M9*0.6	5.0	35.5	2.5	8.2	7.0	11.0
RM-PFG	1B	16.0	15.8	M12*1.0	5.0	40.7	3.5	10.5	9.0	14.0
RM-PFG	2B	20.0	19.2	M15*1.0	6.5	47.0	3.5	13.5	12.0	17.0
RM-PFG	3B	24.0	25.0	M18*1.0	9.0	56.0	4.5	16.5	14.0	22.0



RM-PHG Cable Mount Receptacle

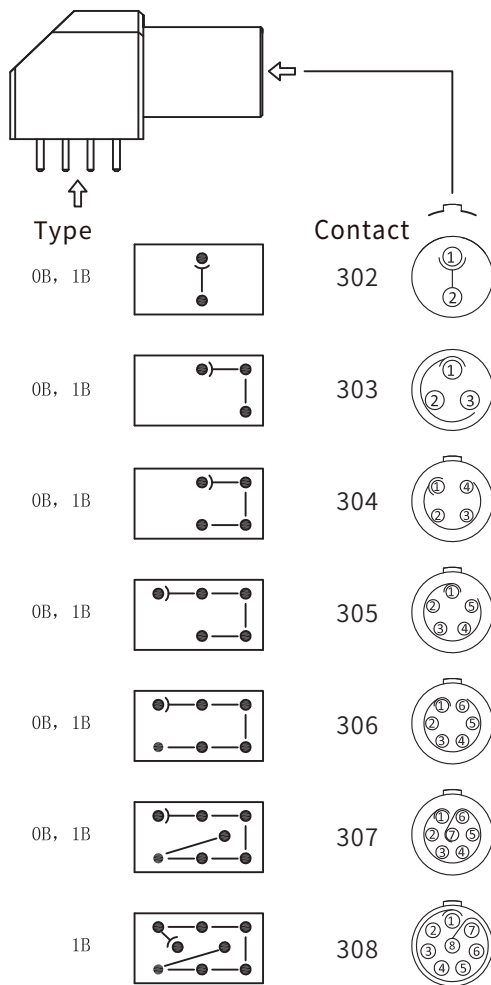
Reference		Dimensions(mm)			
Model	Series	A	L	S1	S2
RM-PHG	0B	9.5	35.5	8.0	7.0
RM-PHG	1B	12.5	40.7	10.0	9.0
RM-PHG	2B	16.5	47.0	13.0	12.0
RM-PHG	3B	19.0	56.0	15.0	14.0



RM-PHG Cable Mount Receptacle, nut for fitting a bend relief

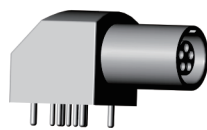
Reference		Dimensions(mm)			
Model	Series	A	L	S1	S2
RM-PHG	0B	9.5	35.5	8.0	7.0
RM-PHG	1B	12.5	40.5	10.0	9.0
RM-PHG	2B	16.5	47.0	13.0	12.0
RM-PHG	3B	19.0	56.0	15.0	14.0

Technical Characteristics

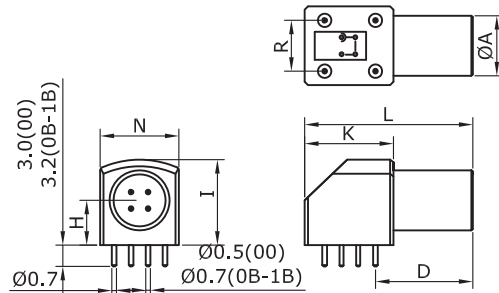


Electrical

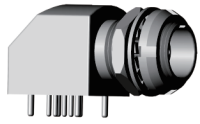
Model	Shell Size	Contract No.	Test voltage (contact-shell)k/v	Test voltage (contact-shell)k/v	Rated current/A
EPG-EXG	0B	302	1.45	1.20	4.5
EPG-EXG	0B	303	1.70	1.60	4.5
EPG-EXG	0B	304	1.30	1.10	4.5
EPG-EXG	0B	305	1.25	1.20	4.5
EPG-EXG	0B	306	1.25	1.20	2.5
EPG-EXG	0B	307	1.00	1.20	2.0
EPG-EXG	1B	302	1.70	1.45	4.5
EPG-EXG	1B	303	1.60	1.85	4.5
EPG-EXG	1B	304	1.70	1.80	4.5
EPG-EXG	1B	305	1.30	1.55	4.5
EPG-EXG	1B	306	1.35	1.45	4.5
EPG-EXG	1B	307	1.45	1.45	2.0
EPG-EXG	1B	308	1.30	1.30	2.0
EPG	1B	314	1.00	1.30	1.0



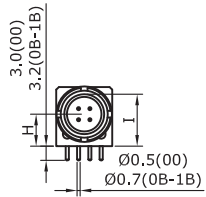
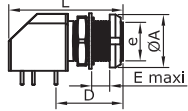
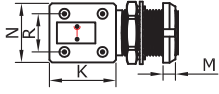
RM-EPG Elbow (90°) Receptacle for printed circuit, key (G) or keys(A..F) (solder or screw fixing)



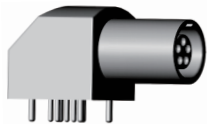
Model	Dimensions(mm)							
	A	D	H	I	K	L	N	R
EPG.0BC.302.KP	9.0	14.6	6.7	12.6	13.3	25.0	11.7	7.62
EPG.0BC.303.KP								
EPG.0BC.304.KP								
EPG.0BC.305.KP								
EPG.0BC.306.KP								
EPG.0BC.307.KP								
EPG.1BC.302.KP	11.0	16.6	7.5	14.0	13.3	27.0	12.6	7.62
EPG.1BC.303.KP								
EPG.1BC.304.KP								
EPG.1BC.305.KP								
EPG.1BC.306.KP								
EPG.1BC.307.KP								
EPG.1BC.308.KP								



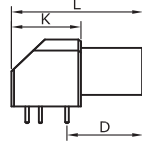
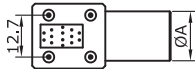
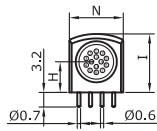
RM-EXG Elbow (90°) Receptacle for printed circuit, (solder or screw fixing)
back panel mounting



Model	Dimensions(mm)												
	A	B	D	e	E	H	I	K	L	M	N	R	S3
EXG.0BC.302.KP	12	12.4	14.6	M9*0.6	6	6.7	12.6	13.3	25	2.5	11.7	7.62	11
EXG.0BC.303.KP													
EXG.0BC.304.KP													
EXG.0BC.305.KP													
EXG.0BC.306.KP													
EXG.0BC.307.KP													
EXG.1BC.302.KP	14	15	16.6	M11*0.5	7.5	7.5	14	13.3	27	3.5	12.6	7.62	13
EXG.1BC.303.KP													
EXG.1BC.304.KP													
EXG.1BC.305.KP													
EXG.1BC.306.KP													
EXG.1BC.307.KP													
EXG.1BC.308.KP													

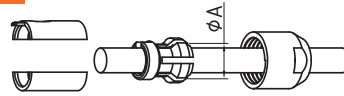


RM-EPG Elbow (90°) Receptacle for printed circuit, (solder or screw fixing)back panel mounting



型号	尺寸 (mm)						
	A	D	H	I	K	L	N
EPG.1BC.314.KP	11	21	7.7	14.3	19	36	15.4

RM-B series Cable collet



00B

Cable Clamp Set	Cable collet (mm)	Cable dia Range	
code	ΦA	Max	Min
22	2.2	2.2	1.4
27	2.7	2.7	>2.2
35	3.5	3.5	>2.7

0B

Cable Clamp Set	Cable collet (mm)	Cable dia Range	
code	ΦA	Max	Min
21	2.1	2.2	1.4
32	3.2	3.2	>2.2
42	4.2	4.2	>3.2
52	5.2	5.2	>4.2
56	5.6	5.6	>5.2①

1B

Cable Clamp Set	Cable collet (mm)	Cable dia Range	
code	ΦA	Max	Min
32	3.2	3.2	2.5
42	4.2	4.2	3.2
52	5.2	5.2	>4.2
62	6.2	6.2	>5.2
72	7.2	7.2	>6.2
76	7.6	7.5	7.1①

2B

Cable Clamp Set	Cable collet (mm)	Cable dia Range	
code	ΦA	Max	Min
42	4.2	4.2	>3.2
52	5.2	5.2	>4.2
62	6.2	6.2	>5.2
72	7.2	7.2	>6.2
82	8.2	8.2	>7.2
92	9.2	9.2	>8.2
99	9.9	9.7	9.1①

3B

Cable Clamp Set	Cable collet (mm)	Cable dia Range	
code	ΦA	Max	Min
62	6.2	6.2	4.9
72	7.2	7.7	>6.2
82	8.2	8.0	7.1
92	9.2	9.2	>7.7
10	10.2	10.2	>9.2
11	11.2	11.0	10.2
12	11.9	11.7	11.1①

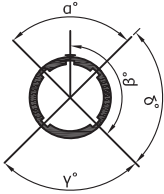
① This cable collet is only for crimping type cable collet, not fit for cable nut with bend relief type.

Alignment key and Polarized Keys(RM-B series)

RM-B series connector model type are composed of five letters.

The last letter indicates the key position and the contact type (male or female).

Front view of receptacle



Code	Keys No.	Angles	Series		
			00	0B	1B
G	1		0°	0°	0°
A	2	α	30°	30°	30°
B	2		60°	60°	60°
C	2		-	90°	90°
D	2	β	-	135°	135°
E	2		-	145°	145°
F	2		-	155°	155°
J	2	γ	45°	45°	45°
K	2		-	70°	70°
L	2		-	80°	80°
M	2	δ	-	110°	-

Code	Keys No.	Angles	Series	
			2B	0B
G	1		0°	0°
A	2	α	30°	30°
B	2		45°	60°
C	2		60°	90°
D	2	γ	95°	135°
E	2	β	120°	145°
F	2		145°	155°
J	2	α	37.5°	45°
K	2		52.5°	70°
L	2	γ	70°	80°
M	2	δ	-	110°

Contact Type	
Plug	Receptacle
Male	Female
Male	Female
Male	Female
Male	Female
Male	Female
Male	Female
Female	Male
Female	Male
Female	Male
Female	Male



Shipborne Equipment Applications