

RM-K Series

Metal Waterproof Push Pull Self-locking Connector

K series has same insulator and contact configuration as B series:

- 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
- Sealed up to IP68
- 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-K Series

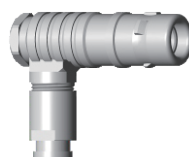
Plugs



FGG



FGG



FPG



FAG

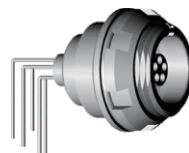
Receptacles



EGG



EEG



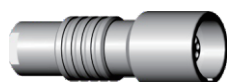
EEG



HGG



PHG

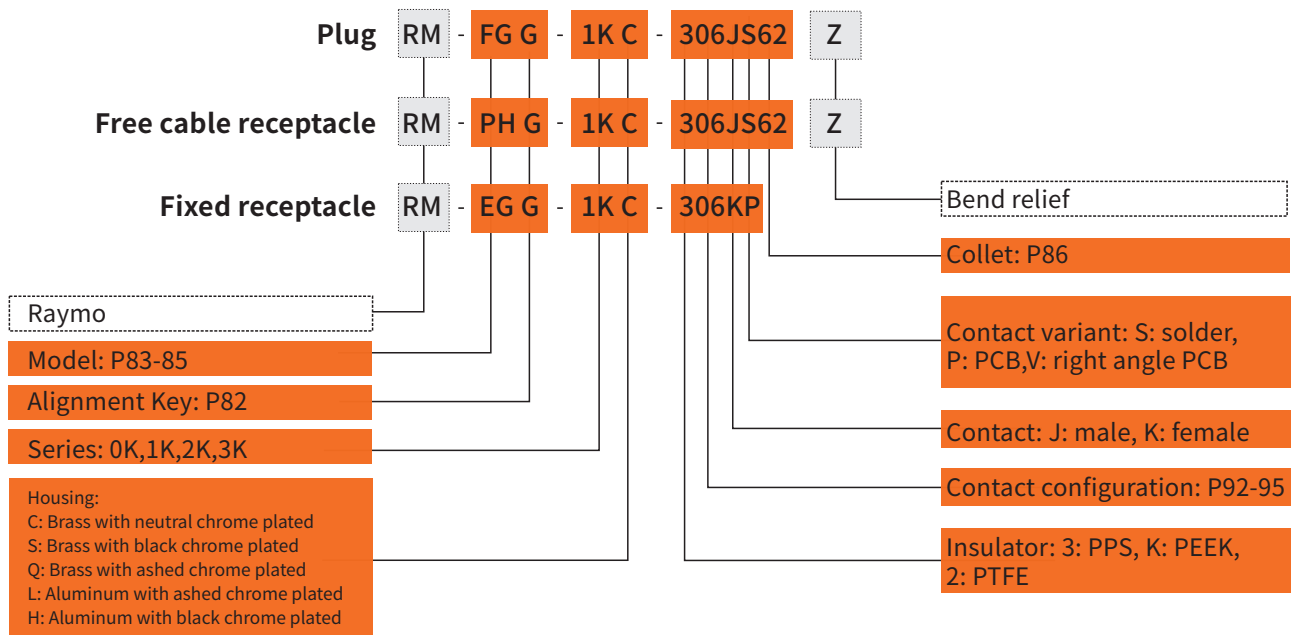


PHG



PEG

Part Numbering System



Part No. Example

Straight plug with cable collet

RM-FGG-1KC-303JS62Z= straight plug with key (G) and cable collet, 1K series, multipole 3 contacts, outer shell in natural chrome-plated brass, PPS insulator, male solder contacts, collet for 5.2-6.2 mm diameter cable, with a black colour bend relief.

Free cable receptacle

RM-PHG-1KC-303KS62Z= free cable receptacle (G) and cable collet, 1K series, multipole 3 contacts, outer shell in natural chrome-plated brass, PPS insulator, female solder contacts, collet for 5.2-6.2 mm diameter cable, with a black colour bend relief.

Fixed receptacle

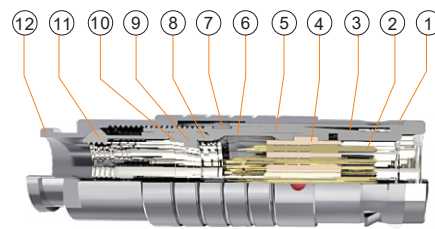
RM-EGG-1KC-303KP= fixed receptacle, nut fixing, with key(G), 1K series, multipole 3 contacts, outer shell in natural chrome plated brass, PPS insulator, female pcb contacts.

RM-K

Part Section Showing Internal Components

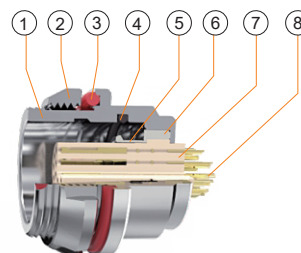
Cable Mount Plug

- ① Outer shell
- ② Male contact
- ③ Latch sleeve
- ④ Insulator
- ⑤ Inner shell
- ⑥ Split insert carrier A/B
- ⑦ Retaining ring
- ⑧ Earthing cone
- ⑨ O-ring
- ⑩ Washer
- ⑪ Cable collet
- ⑫ Collet nut



Fixed Receptacle

- ① Outer shell
- ② Hexagonal nut
- ③ Outer o-ring
- ④ Inner o-ring
- ⑤ Retaining ring
- ⑥ Earthing crown
- ⑦ Insulator
- ⑧ Female contact



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	>96h	IEC 60512-6 test 11f
Protection index (mated)	IP68	IEC 60529
Climatical category	55/175/21	IEC 60068-1

Electrical

Characteristics		Value	Standard
Shielding efficiency	at 10 MHz	>95 dB	IEC 60619-1-3
	at 1 GHz	>80 dB	IEC 60619-1-3

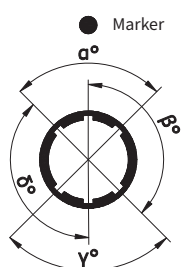
RM-K

Alignment key and Polarized keys(RM-K series)

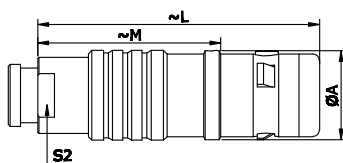
RM-K series connector model type are composed of five letters.

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

Front view of receptacle

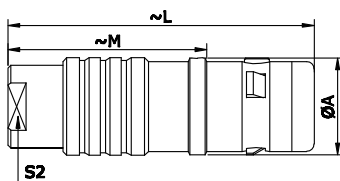


Code	Keys No.	Angles	Series				Contact Type	
			0K	1K	2K	3K	Plug	Receptacle
G	1		0°	0°	0°	0°	Male	Female
A	2	α	30°	30°	30°	30°	Male	Female
B	2		45°	45°	45°	45°	Male	Female
C	2		60°	60°	60°	60°	Male	Female
D	2	γ	95°	95°	95°	95°	Male	Female
E	2	β	120°	120°	120°	120°	Male	Female
F	2		145°	145°	145°	145°	Male	Female
L	2	γ	75°	75°	75°	75°	Female	Male



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

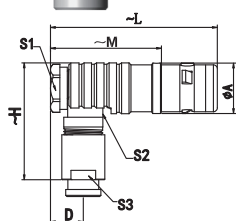
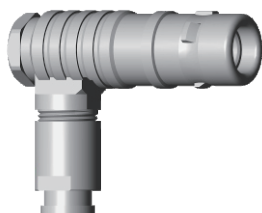
Reference		Dimensions(mm)			
Model	Series	A	L	M	S2
RM-FGG	0K	11.0	34.0	23.0	7.0
RM-FGG	1K	13.0	42.0	28.0	9.0
RM-FGG	2K	16.0	52.0	36.0	12.0
RM-FGG	3K	19.0	60.0	40.0	15.0



RM-FGG Cable Mount Straight Plug

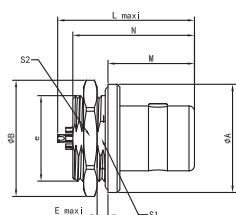
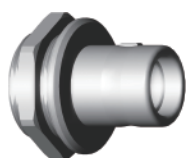
Reference		Dimensions(mm)			
Model	Series	A	L	M	S2
RM-FGG	0K	11.0	34.0	23.0	7.0
RM-FGG	1K	13.0	42.0	28.0	9.0
RM-FGG	2K	16.0	52.0	36.0	12.0
RM-FGG	3K	19.0	60.0	40.0	15.0

RM-K



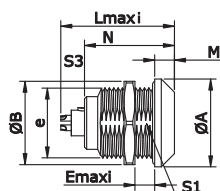
RM-FPG Cable Mount Straight Plug

Reference		Dimensions(mm)							
Model	Series	A	D	H	L	M	S1	S2	S3
RM-FPG	0K	11.0	7.3	25.0	36.0	25.0	9.0	8.0	8.0
RM-FPG	1K	13.0	8.7	33.0	42.0	28.0	11.0	9.0	10.0
RM-FPG	2K	16.0	10.2	40.0	51.0	35.0	14.0	12.0	13.0



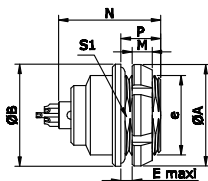
RM-FAG Fixed plug

Reference		Dimensions(mm)								
Model	Series	A	B	e	E	L	M	N	S1	S3
RM-FAG	1K	20	21.5	M16*1.0	2.3	25.3	16.0	22.5	14.5	19
RM-FAG	2K	25	27.0	M20*1.0	4.5	31.2	18.0	28.3	18.5	24
RM-FAG	3K	30	34.0	M24*1.0	4.0	36.3	22.5	33.8	22.5	30



RM-EGG Panel Mount Fixed Receptacle

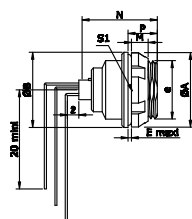
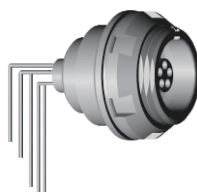
Reference		Dimensions(mm)									
Model	Series	A	B	e	E	L	M	N	S1	S3	
RM-EGG	0K	18.0	19.2	M14*1.0	6	21.7	4.0	20.0	12.5	17	
RM-EGG	1K	20.0	21.5	M16*1.0	9	27.0	4.5	25.1	14.5	19	
RM-EGG	2K	25.0	27.0	M20*1.0	9	30.7	5.0	28.6	18.5	24	
RM-EGG	3K	31.0	34.0	M24*1.0	11	36.2	6.0	33.6	22.5	30	



RM-EEG Panel Mount Fixed Receptacle, back panel mounting

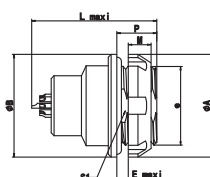
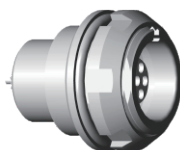
Reference		Dimensions(mm)								
Model	Series	A	B	e	E	M	N	P	S1	
RM-EEG	0K	18.0	18.0	M14*1.0	3.4	3.5	20.1	7.0	12.5	
RM-EEG	1K	20.0	20.0	M16*1.0	6.2	3.5	25.1	10.0	14.5	
RM-EEG	2K	25.0	25.0	M20*1.0	5.0	5.0	28.6	10.0	18.5	
RM-EEG	3K	30.0	31.0	M24*1.0	7.5	4.5	33.6	12.0	22.5	

RM-K



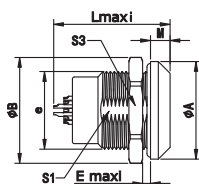
RM-EEG Panel Mount Fixed Receptacle elbow 90° contact for printed circuit (back panel mounting)

Reference		Dimensions(mm)								
Model	Series	A	B	e	E	M	N	P	S1	
RM-EEG	0K	18.0	18.0	M14*1.0	3.4	3.5	20.1	7.0	12.5	
RM-EEG	1K	20.0	20.0	M16*1.0	6.2	3.5	25.1	10.0	14.5	
RM-EEG	2K	25.0	25.0	M20*1.0	5.0	5.0	28.6	10.0	18.5	
RM-EEG	3K	30.0	31.0	M24*1.0	7.5	4.5	33.6	12.0	22.5	



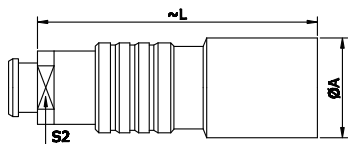
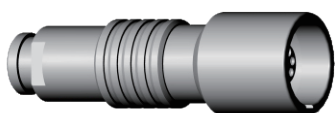
RM-HEG Panel Mount Fixed Receptacle

Reference		Dimensions(mm)								
Model	Series	A	B	e	E	L	M	P	S1	
RM-HEG	0K	18.0	18.0	M14*1.0	2.4	21.7	3.5	7.0	12.5	
RM-HEG	1K	20.0	20.0	M16*1.0	6.2	30.0	5.0	10.0	14.5	
RM-HEG	2K	25.0	25.0	M20*1.0	5.0	33.7	3.5	10.0	18.5	



RM-HGG Panel Mount Fixed Receptacle,
Watertight or vacuumtight

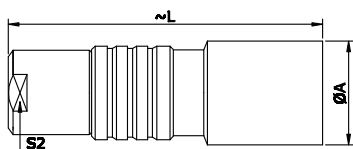
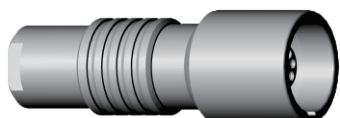
Reference		Dimensions(mm)								
Model	Series	A	B	e	E	L	M	S1	S3	
RM-HGG	0K	18.0	19.2	M14*1.0	5.5	21.7	4.0	12.5	17.0	
RM-HGG	1K	20.0	21.5	M16*1.0	9.0	27.0	4.5	14.5	19.0	
RM-HGG	2K	25.0	27.0	M20*1.0	13.0	30.7	5.0	18.5	24.0	
RM-HGG	3K	31.0	34.0	M24*1.0	16.0	36.2	6.0	22.5	30.0	



RM-PHG Cable Mounted Receptacles, nut
for fitting a bend relief

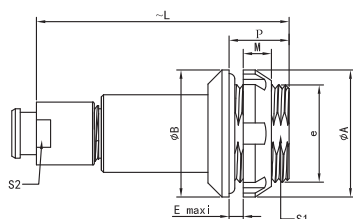
Reference		Dimensions(mm)		
Model	Series	A	L	S2
RM-PHG	0K	13.0	34.0	8.0
RM-PHG	1K	15.0	45.0	9.0
RM-PHG	2K	19.0	54.0	12.0
RM-PHG	3K	23.0	65.0	15.0

RM-K



RM-PHG Cable Mounted Receptacles

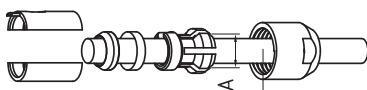
Reference		Dimensions(mm)		
Model	Series	A	L	S2
RM-PHG	0K	13.0	34.0	8.0
RM-PHG	1K	15.0	45.0	9.0
RM-PHG	2K	19.0	54.0	12.0
RM-PHG	3K	23.0	65.0	15.0



RM-PEG Back panel fixed receptacle, nut fixing, key(G) or
key(A...F, L and R)

Reference		Dimensions(mm)								
Model	Series	A	B	e	E	L	M	P	S1	S2
RM-PEG	0K	18.0	18	M14*1.0	5.0	34	3.5	8.5	12.5	8
RM-PEG	1K	20.0	20	M16*1.0	6.5	45	3.5	10.0	14.5	9
RM-PEG	2K	25.0	25	M20*1.0	4.0	54	3.5	7.5	18.5	12
RM-PEG	3K	30.0	31	M24*1.0	7.5	65	4.5	12.0	22.5	15

RM-K series Cable collet



0K

Cable Clamp Set code	Cable collet (mm)		Cable dia Range	
	ΦA	ΦB	Max	Min
42	4.2	-	4.2	2.5
52	5.2	-	5.2	>4.2
62	6.2	-	6.2	>5.2
72	7.2	6.7	7.2	>6.2
76	7.6	6.7	7.5	7.1 ^①

1K

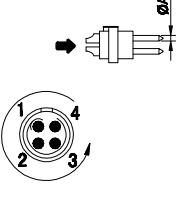
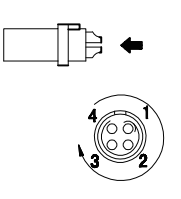
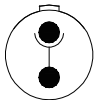
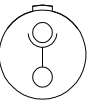

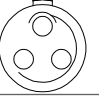


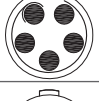
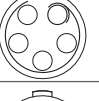


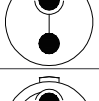
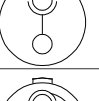
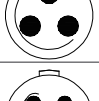
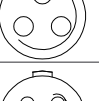


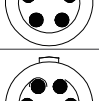
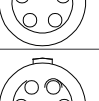


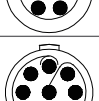
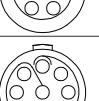
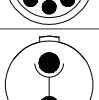
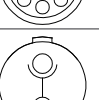
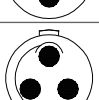
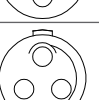


Cable Clamp Set code	Cable collet (mm)		Cable dia Range	
	ΦA	ΦB	Max	Min
42	4.2	-	4.2	>3.2
52	5.2	-	5.2	>4.2
62	6.2	-	6.2	>5.2
72	7.2	-	7.2	>6.2
82	8.2	-	8.2	>7.2
92	9.2	8.6	9.2	>8.2
99	9.9	8.6	9.7	9.1 ^①

2K

Cable Clamp Set code	Cable collet (mm)		Cable dia Range	
	ΦA	ΦB	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	10.2	11.0	10.2
12	11.9	10.2	11.7	11.1 ^①

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

Insulator Configuration

	solder male contact 	solder female contact 	Insulator	Contact No.	ØA(MM)	Contact type			Test voltage(contact -shell) k/v AC-rms	Test voltage(contact -contact)k/v AC-rms	Rated current /A
						Solder contact	PCB straight contact	PCB elbow contact			
00			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	●	●	●	0.7	0.6	1.5
			307	7	0.3	●	●	●	0.50	0.6	1.0
0B 0K 0W			302	2	0.9	●	●	●	1.30	1.05	10.0
			303	3	0.9	●	●	●	1.20	0.90	8.0
			304	4	0.7	●	●	●	0.85	0.70	7.0
			305	5	0.7	●	●	●	1.00	0.70	6.5
			306	6	0.5	●	●	●	0.85	0.65	2.5
			307	7	0.5	●	●	●	0.80	0.70	2.5
			309	9	0.5	●	●	●	0.60	0.50	2.0
			302	2	1.3	●	●	●	1.50	1.35	15.0
1B 1K 1W			303	3	1.3	●	●	●	1.30	1.55	12.0

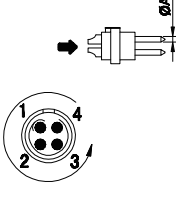
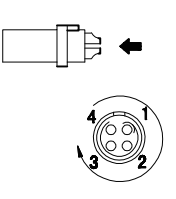



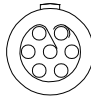



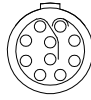

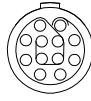










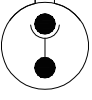
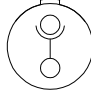

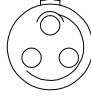
- First choice alternative
- Special order alternative

Insulator Configuration

	solder male contact 	solder female contact 	Insulator	Contact No.	ØA(MM)	Contact type			Test voltage(contact -shell) k/v AC-rms	Test voltage(contact -contact)k/v AC-rms	Rated current /A
						Solder contact	PCB straight contact	PCB elbow contact			
1B 1K 1W			304	4	0.9	●	●	●	1.35	1.45	10.0
			305	5	0.9	●	●	●	1.25	1.15	9.0
			306	6	0.7	●	●	●	1.05	1.20	7.0
			307	7	0.7	●	●	●	0.95	1.05	7.0
			308	8	0.7	●	●	●	0.95	1.15	5.0
			310	10	0.5	●	●	●	0.90	1.50	2.5
			314	14	0.5	●	●	●	0.80	1.20	2.0
			316	16	0.5	●	●	●	0.80	1.25	1.5
2B 2K 2W			302	2	2.0	●	●	●	2.10	1.75	25.0
			303	3	1.6	●	●	●	2.40	1.85	17.0
			304	4	1.3	●	●	●	1.85	1.85	15.0
			305	5	1.3	●	●	●	1.75	1.60	14.0

- First choice alternative
- Special order alternative

Insulator Configuration

	solder male contact 	solder female contact 	Insulator	Contact No.	ØA(MM)	Contact type			Test voltage(contact -shell) k/v AC-rms	Test voltage(contact -contact)k/v AC-rms	Rated current /A
						Solder contact	PCB straight contact	PCB elbow contact			
2B 2K 2W			306	4	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	10.0
			310	10	0.9	●	●	●	1.45	1.30	8.0
			312	12	0.7	●	●	●	1.25	1.35	7.0
			314	14	0.7	●	●	●	1.15	1.35	6.5
			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	●	●	○	0.95	1.30	2.0
3B 3K			302	2	3.0	●	●	-	2.10	1.55	35.0
			303	3	2.0	●	●	●	1.90	1.50	25.0

- First choice alternative
- Special order alternative

Insulator Configuration

	solder male contact 	solder female contact 	Insulator	Contact No.	ØA(MM)	Contact type			Test voltage(contact -shell)k/v AC-rms	Test voltage(contact -contact)k/v AC-rms	Rated current /A
						Solder contact	PCB straight contact	PCB elbow contact			
3B 3K			304	4	2.0	●	●	●	1.45	1.25	19.0
			305	5	1.6	●	●	●	1.90	1.25	19.0
			306	6	1.6	●	●	●	1.60	1.15	17.0
			307	7	1.6	●	●	●	1.70	1.25	15.0
			308	8	1.3	●	●	●	1.65	1.15	13.0
			309	8 1	1.3 2.0	●	●	-	1.35 1.35	1.05 1.05	6.0 15.0
			310	10	1.3	●	●	●	1.25	0.90	12.0
			312	12	0.9	●	●	●	1.45	1.00	9.0
			314	14	0.9	●	●	●	1.20	1.20	9.0
			316	16	0.9	●	●	●	1.20	0.85	8.0
			330	30	0.7	●	●	●	0.80	0.70	3.5
			332	32	0.7	●	●	●	0.75	0.70	3.0

- First choice alternative
- Special order alternative