

# **RM-G Series**

# **Advanced Miniature Small and Light Weight Connector**

- Secure high performance in quick release system
- Cornpact design and light weight construction
- Sealed up to IP68 and hermetic
- The unique design of the contact core makes it safe and reliable in all environments
- 5 different alignment keys and Polarized Keying System to avoid cross-interface
- Hermetic receptacle structure can be suitable for equipment requiring airtightness
- Robust and shock resistant designs
- 360°EMC shielded
- Available solder, PCB and right angle PCB contact



# **RM-G Series**

# **Plugs**



**FSE** 

# Receptacles

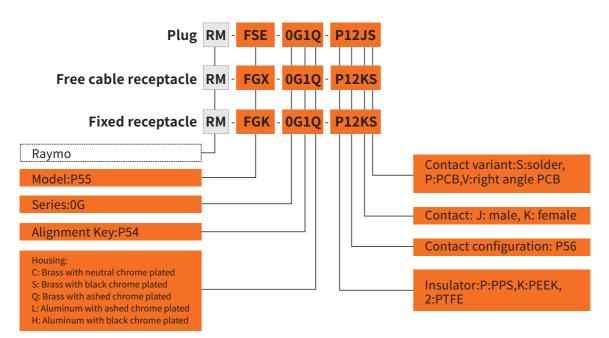




FGK PGX

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## **Part Numbering System**



## Part No.Example

#### Straight plug

RM-FSE-0G1Q-P12JS straight plug,0G series, key 1, multipole 12 contacts, outer shell in gun chrome-plated brass,PPS insulator, male solder contacts,IP68.

#### Free receptacle

RM-PGX-0G1Q-P12KS free cable receptacle,0G series, key 1, mulitpole 12 contacts, outer shell in gun chrome-plated brass, PPS insulator, female solder contacts,IP68.

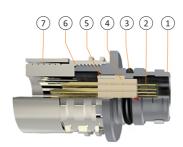
#### **Fixed receptacle**

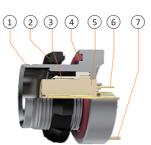
RM-FGK-0G10-P12KS fixed receptacle,0G series, key 1, outer shell in gun chrome-plated brass,PPS insulator, female solder contacts,IP68.

### **Part Section Showing Internal Components**

#### **Straight Plug**

- 1 Outer shell
- (2) Male contact
- 3 O-ring
- (4) Insulator
- (5) Retaining ring
- (6) Collet nut
- (7) EMI ring





#### **Fixed Receptacle**

- (1) Outer shell
- (2) Hexagonal nut
- (3) Fixed spacer
- (4) O-ring
- (5) Insulator
- (6) Female contact
- (7) Ground tag

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### **Technical Characteristics**

#### **Mechanical and Climatical**

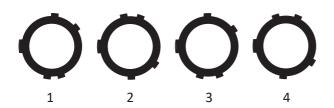
Characteristics	Value	Standard			
Endurance	>5000cycles	IEC60512-5test9a			
Humidity	Up to 95	5% at 60°C			
Temperature range	-55°C	+250°C			
Resistance to vibration	10-2000Hz,15g	IEC 60512-4 test 6d			
Shock resistance	100g,6ms	IEC 60512-4 test 6c			
Salt spray corrosion test	>96hrs	IEC 60512-6 test 11f			
Protection index (mated)	IP68	IEC 60529			
Climatical category	55/175/21	IEC 60068-1			

#### **Electrical**

Characteri	istics	Value	Standard			
Shielding at 10 MHZ efficiency at 1 GHz		>65 dB	IEC 60619-1-3			
		>45 dB	IEC 60619-1-3			

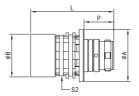
## Alignment Key

Key 1 is standard, if you need other keys, please indicated



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**RM-FSE** straight plug

Reference		Dimensions(mm)						
Model	Model Series		В	Р	L	S2		
RM-FSE 0G		12.8	10.5	7.3	20.4	10.0		

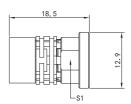


Lmaxi N Emaxl S1

**RM-FGK** Sealed Back Panel Mount Receptacle with ground tag

Referen	ce	Dimensions(mm)					
Model	Series	Α	N	е	Е	L	S1
RM-FGK	0G	13.2	8.0	M10*0.5	3.5	15.1	9.0





**RM-PGX** free cable receptacle

Referen	ce	Dimensions(mm)					
Model	Series	Α	N	S1			
RM-PGX	0G	12.9	18.5	9.6			

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# **Insulator Configuration**

	solder male contact	solder female contact	Code	Contact No.	ØA(MM)	Solder contact	PCB straight contact	PCB elbow contact	Test voltage(contact -shell) k/v AC-rms	Test voltage(contact -contact)k/v AC-rms	Rated current /A
0G	(1) (7) (2) (8) (6)	(7 (1) (6 (8) (2)	DOO	6	0.7	•	•	•	1.00	0.95	5.0
	2 8 6 3 5	6 8 2 5 3	P09	3	0.3	•	•	•	0.8	0.65	1.0
	① ⑨ ② (10) ®	9 (1) 8 (10) 2	P12	2	0.7	•	•	•	1.00	0.95	5.0
	(3 ft) (9 T) (4 (5) (6)	0 0 0 0	P12	10	0.3	•	•	•	0.8	0.65	1.0
	2 0 0 0 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P16	16	0.3	•	•	•	0.8	0.65	1.0

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