raymo
circular connector

RM- G Series

Advanced Miniature Small and Light Weight Connector

- *Secure high performance in quick release system*
- *Compact 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*

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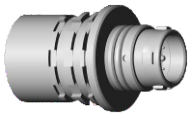
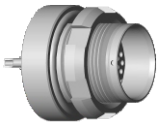
RM-AMC series

Plugs

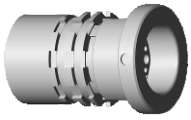


FSE

Receptacles



FGK



PGX

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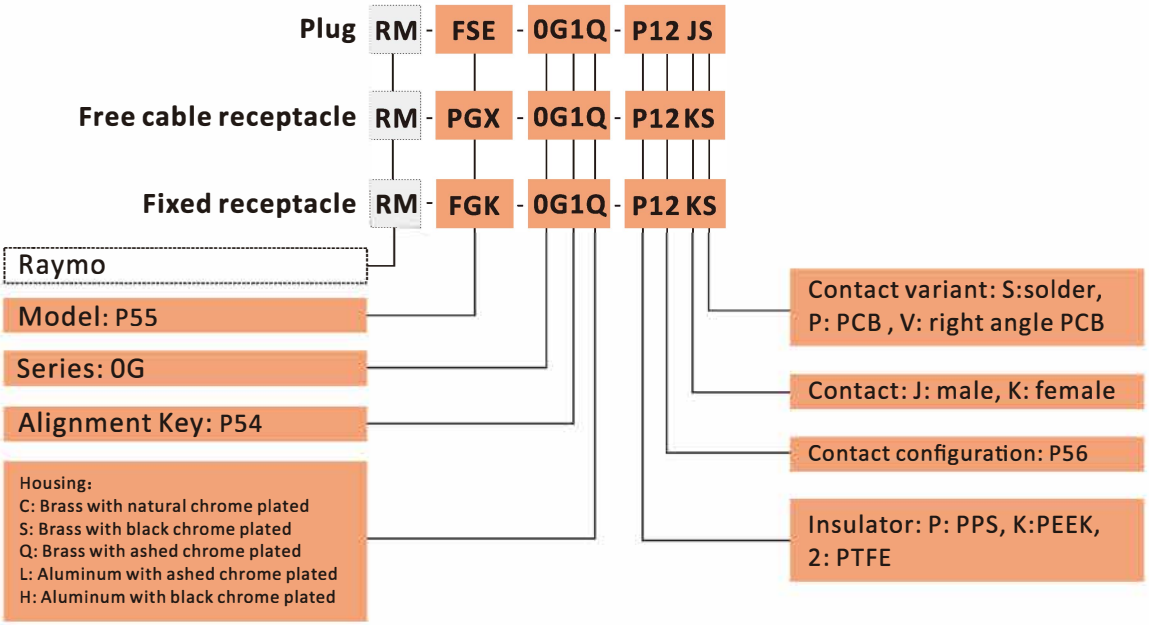
Part Numbering System



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.

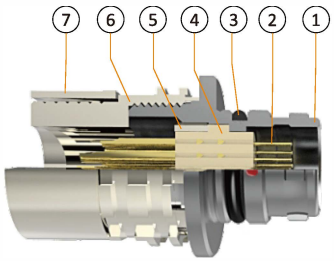
Fixed receptacle

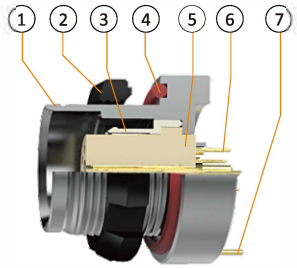
RM-PGK-PKG-0G1Q-P12KS fixed receptacle, 0G series, key 1, outer shell in gun chrome-plated brass, PPS insulator, female solder contacts, IP68.

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

Technical Characteristics

Mechanical and Climatical

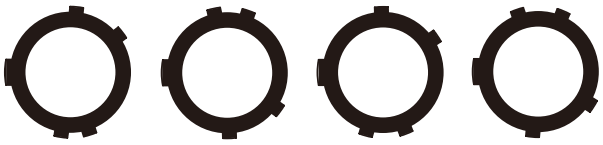
Characteristics	Value	Standard
Endurance	>5000cycles	IEC60512-5test9a
Humidity	Up to 95% at 60°C	
Temperature range	-55°C, +250°C	
Resistance to vibration	10-2000Hz,15g	IEC 60512-4 test 6d
Shock resistance	100g, 6ms	IEC 60512-4 test 6c
Salt spray corrosion test	>96hrs	IEC 60512-6 test 11f
Protection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

Electrical

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

Alignment Key

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



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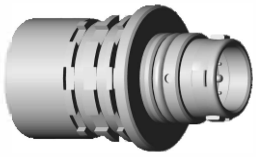
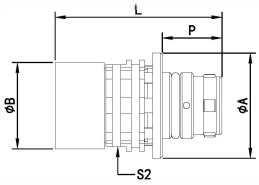
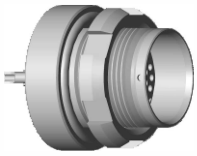
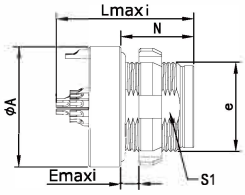




RM-FSE straight plug

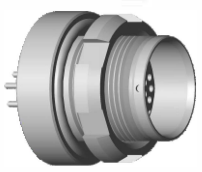
Reference		Dimensions(mm)				
Model	Series	A	B	P	L	S2
RM-FSE	0G	12.8	10.5	7.3	20.4	10.0

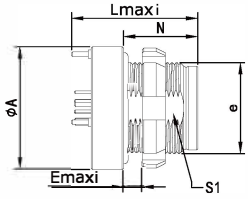




RM-FGK Sealed Back Panel Mount Receptacle with ground tag

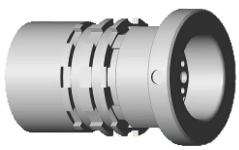
Reference		Dimensions(mm)				
Model	Series	A	e	E	L	S1
RM-FGK	0G	12.8	M10*0.5	3.5	15.1	9.0

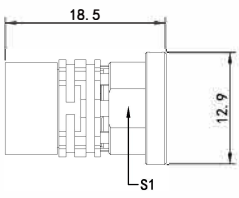




RM-FGK Sealed Back Panel Mount Receptaclestraight PCB contacts, back panel mounting,with ground tag

Reference		Dimensions(mm)					
Model	Series	A	N	e	E	L	S1
RM-FGK	0G	12.8	8.0	M10*0.5	3.5	13.6	9.0

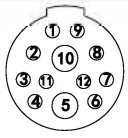
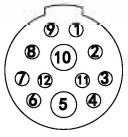
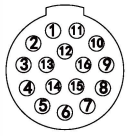
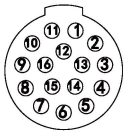




RM-PGX free cable receptacle

Reference		Dimensions(mm)		
Model	Series	A	N	S1
RM-PGX	0G	12.9	18.5	9.6

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			P12	2	0.7	●	●	●	1.00	0.95	5.0
				10	0.3	●	●	●	0.8	0.65	1.0
			P16	10	0.3	●	●	●	0.8	0.65	1.0

● First choice alternative
○ Special order alterative

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