raymo
circular connector

RM-C Series

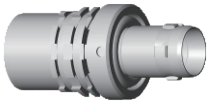
Advanced Miniature Small and Light Weight Connector

- Secure high performance push pu self-Jocking system
- Compact design and light weight construction
- Sealed up to IP68 and hermefic
- The unique design of the contact core makes it safe and reliable in atl environments
- 5 different alignment keys and Polarized Keying Systers 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-C Series

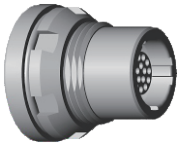
Plugs

FSX

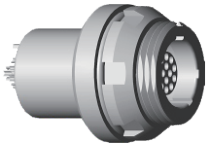


FSC

Receptacles

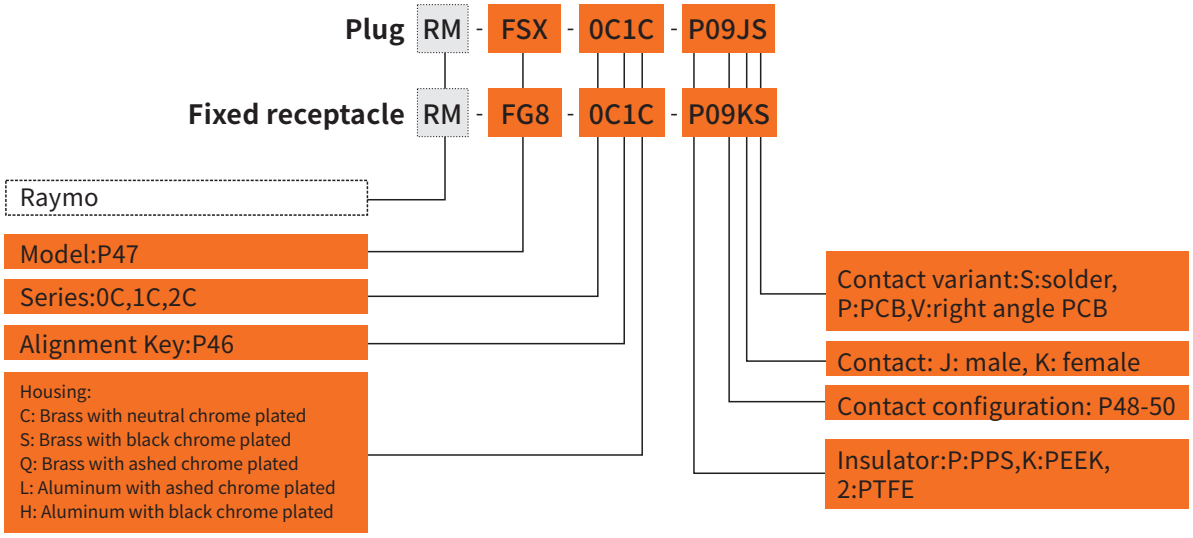


FGK



FG8

Part Numbering System



Part No.Example

Straight plug with cable collet

RM-FSX-0C1C-P09JS straight plug,0C series, key 1, multipole 9 contacts,outer shell in black chrome -plated brass, PPS insulator, male solder contacts,IP68.

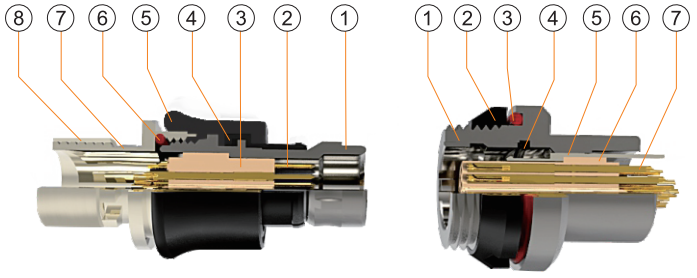
Fixed receptacle

RM-FG8-0C1C-P09KS fixed receptacle, 0C series, key 1, mulitpole 9 contacts, outer shell in natural chrome-plated brass, PPS insulator, female solder contacts,IP68.

Part Section Showing Internal Components

Cable Mount Plug

① Inner shell
② Male contact
③ Insulator
④ Latch sleeve
⑤ Outer shell
⑥ O-ring
⑦ Collet nut
⑧ EMI ring



Fixed Receptacle

① Outer shell
② Hexagonal nut
③ Outer o-ring
④ Inside o-ring
⑤ Fixed spacer
⑥ Insulator
⑦ Female contact

Technical Characteristics

Mechanical and Climatical

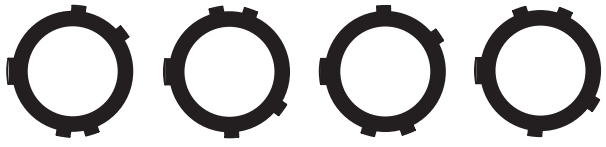
Characteristics	Value	Standard
Endurance	>5000cycles	IEC60512-5test9a
Humidity	Up to 95% at 60°C	
Temperature range	-55°C,+250°C	
Resistance to vibration	10-2000Hz,15g	IEC 60512-4 test 6d
Shock resistance	100g,6ms	IEC 60512-4 test 6c
Salt spray corrosion test	>96h	IEC 60512-6 test 11f
Protection index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

Electrical

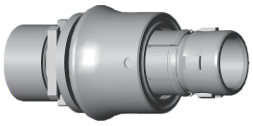
Characteristics		Value	Standard
Shielding efficiency	at 10 MHZ	>95 dB	IEC 60619-1-3
	at 1 GHz	>80 dB	IEC 60619-1-3

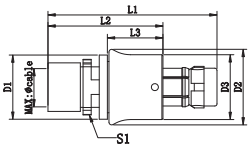
Alignment Key

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



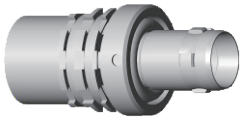
1 2 3 4

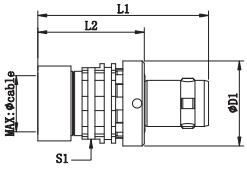




RM-FSX Cable mount plug

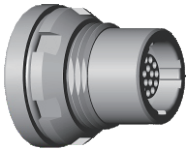
Reference		Dimensions(mm)							
Model	Series	L1	L2	L3	D1	D2	D3	S1	max cable diameter
RM-FSX	0C	31.4	21.4	23	11.9	14	12	6.5	6.5
RM-FSX	1C	33.2	22.4	26	13.9	15.9	13.9	8	8
RM-FSX	AC	32.7	22.7	30	14.5	16.5	14.5	10	10
RM-FSX	2C	35.2	23.2	31	17.6	19.6	17.6	12	12

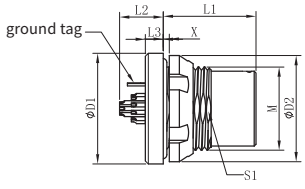




RM-FSC Cable mount plug

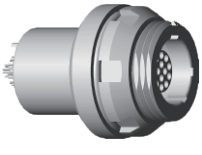
Reference		Dimensions(mm)				
Model	Series	L1	L2	D1	S1	max cable diameter
RM-FSC	0C	23.9	14.9	23	10	5.0
RM-FSC	1C	29.3	18.5	26	11	6.5
RM-FSC	AC	25.8	18.5	23	12	8.0
RM-FSC	2C	31.0	19.0	27	14	10.0

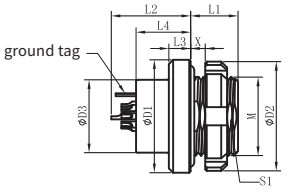




RM-FGK Sealed Panel Mount Receptacle,only can work mated with RM-FSC plug.

Reference		Dimensions(mm)							
Model	Series	L1	L2	L3	X	D1	D2	M	S1
RM-FGK	0C	13.0	7.5	2.5	5	15.5	15.0	M11*0.75	10.1
RM-FGK	1C	15.5	8.5	3.0	4	18.5	17.9	M14*1.0	13.1
RM-FGK	AC	14.2	8.5	3.0	4	18.9	17.9	M14*1.0	13.1
RM-FGK	2C	17.5	9.5	3.0	4	20.8	21.9	M16*1.0	15.1

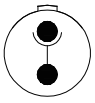
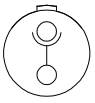
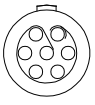
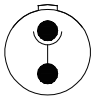
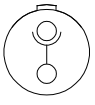




RM-FG8 Sealed Panel Mount Receptacle,only can work mated with RM-FSX plug.

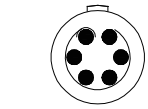
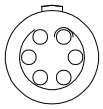
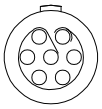
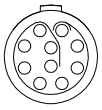
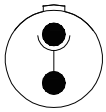
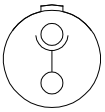
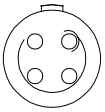
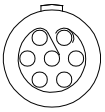
Reference		Dimensions(mm)									
Model	Series	L1	L2	L3	L4	X	D1	D2	D3	M	S1
RM-FG8	0C	6.5	15.5	3.0	11.5	3.0	15.5	15.0	10.0	M11*0.75	10.1
RM-FG8	1C	8.0	19.0	4.0	14.5	3.5	18.5	17.9	12.0	M14*1.0	13.1
RM-FG8	AC	7.0	17.7	2.5	12.5	3.0	18.9	17.9	14.0	M14*1.0	13.1
RM-FG8	2C	8.0	21.5	4.0	15.0	3.0	20.8	21.9	15.0	M16*1.0	15.1

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			
0C			P02	2	0.9	●	●	●	1.30	1.05	10.0
			P03	3	0.9	●	●	●	1.20	0.90	8.0
			P04	4	0.7	●	●	●	0.85	0.70	7.0
			P05	5	0.7	●	●	●	1.00	0.70	6.5
			P06	6	0.5	●	●	●	0.85	0.65	2.5
			P07	7	0.5	●	●	●	0.80	0.70	2.5
1C			P09	9	0.5	●	●	●	0.60	0.50	2.0
			P02	2	1.3	●	●	●	1.50	1.35	15.0
			P03	3	1.3	●	●	●	1.30	1.55	12.0
			P04	4	0.9	●	●	●	1.35	1.45	10.0
			P05	5	0.9	●	●	●	1.25	1.15	9.0

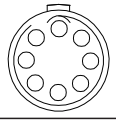
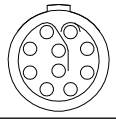
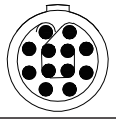
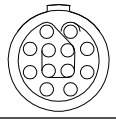
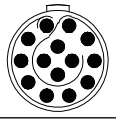
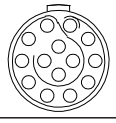
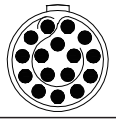
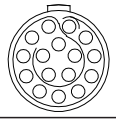
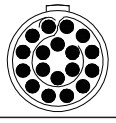
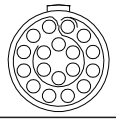
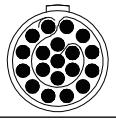
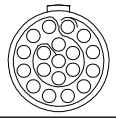
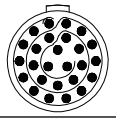
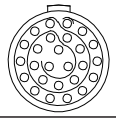
● First choice alternative
○ Special order alterative

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			
1C			P06	6	0.7	●	●	●	1.05	1.20	7.0
			P07	7	0.7	●	●	●	0.95	1.05	7.0
			P08	8	0.7	●	●	●	0.95	1.15	5.0
			P10	10	0.5	●	●	●	0.90	1.50	2.5
			P14	14	0.5	●	●	●	0.80	1.20	2.0
			P16	16	0.5	●	●	●	0.80	1.25	1.5
2C			P02	2	2.0	●	●	●	2.10	1.75	30.0
			P03	3	1.6	●	●	●	2.40	1.85	17.0
			P04	4	1.3	●	●	●	1.85	1.85	15.0
			P05	5	1.3	●	●	●	1.75	1.60	14.0
			P06	6	1.3	●	●	●	1.35	1.45	12.0
			P07	7	1.3	●	●	●	1.75	1.60	11.0

● First choice alternative
○ Special order alterative

Insulator Configuration

	solder male contact	solder female contact	Insulator	Contact No.	Ø A(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			
2C			P08	8	0.9	●	●	●	1.50	1.25	10.0
			P10	10	0.9	●	●	●	1.45	1.30	8.0
			P12	12	0.7	●	●	●	1.25	1.35	7.0
			P14	14	0.7	●	●	●	1.15	1.35	6.5
			P16	16	0.7	●	●	●	0.95	1.25	6.0
			P18	18	0.7	●	●	●	0.85	1.20	5.5
			P19	19	0.7	●	●	●	0.95	1.25	5.0
			P26	26	0.5	●	●	●	0.95	1.30	2.0

● First choice alternative
○ Special order alterative