

RM-C Series

Advanced Miniature Small and Light Weight Connector

- Secure high performance push pull self-locking system/Easy-clean break away
- 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 systems 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

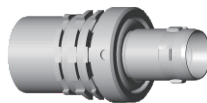


RM-C Push pull series

Plugs

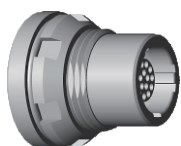


FSX



FSE

Receptacles

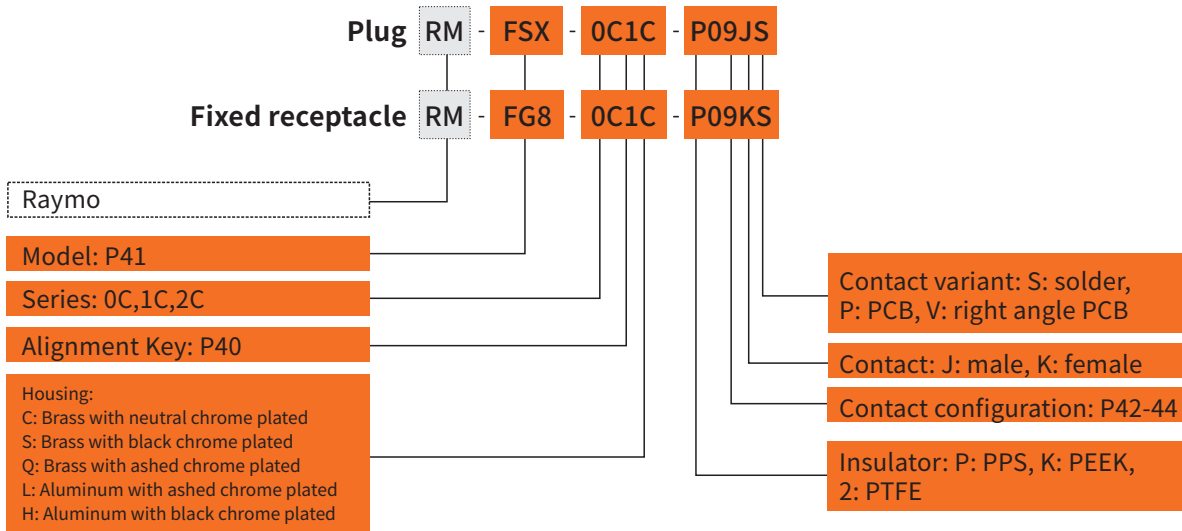


FGK



FG8

Part Numbering System



RM-C

Part No.Example

Straight plug with cable collet

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

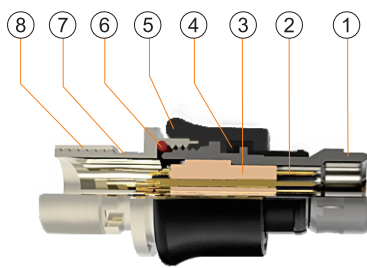
Fixed receptacle

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

Part Section Showing Internal Components

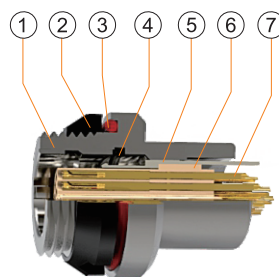
Cable Mount Plug

- 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

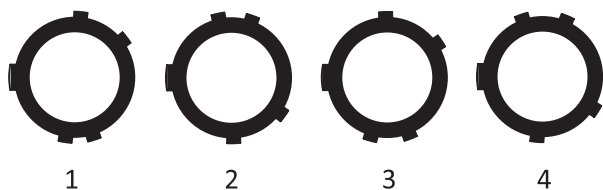
RM-C

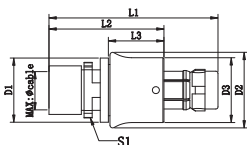
Electrical

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

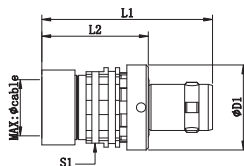
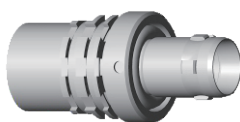




RM-FSX Cable mount plug

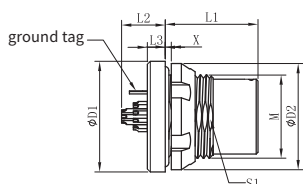
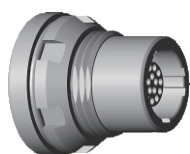
Reference		Dimensions(mm)							
Model	Series	L1	L2	L3	D1	D2	D3	S1	max cable diameter
RM-FSX	0C	31.4	21.4	10.4	11.9	14	12	6.5	5.0
RM-FSX	1C	33.2	22.4	11.4	13.9	15.9	13.9	8	6.5
RM-FSX	AC	32.7	22.7	11.7	14.5	16.5	14.5	10	8.0
RM-FSX	2C	35.2	23.2	12.2	17.6	19.6	17.6	12	10.0

RM-C



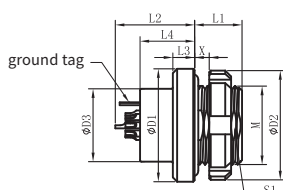
RM-FSE Cable mount plug

Reference		Dimensions(mm)				
Model	Series	L1	L2	D1	S1	max cable diameter
RM-FSC	0C	23.9	14.9	11.9	10	5.0
RM-FSC	1C	29.3	18.5	13.9	11	6.5
RM-FSC	AC	25.8	18.5	15.9	12	8.0
RM-FSC	2C	31.0	19.0	17.6	14	10.0



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

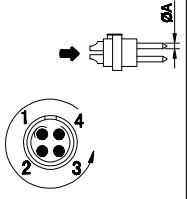
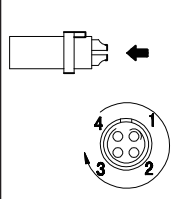





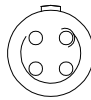



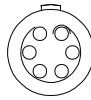

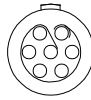


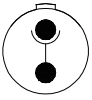
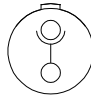

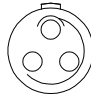

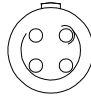

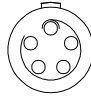
Reference		Dimensions(mm)							
Model	Series	L1	L2	L3	X	D1	D2	M	S1
RM-FGK	0C	13.0	7.5	2.5	5	15.5	15.0	M11*0.75	10.1
RM-FGK	1C	15.5	8.5	3.0	4	18.5	17.9	M14*1.0	13.1
RM-FGK	AC	14.2	8.5	3.0	4	18.9	17.9	M14*1.0	13.1
RM-FGK	2C	17.5	9.5	3.0	4	20.8	21.9	M16*1.0	15.1



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

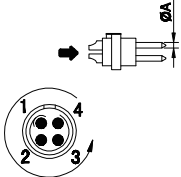
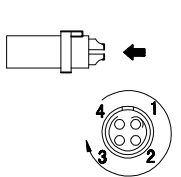
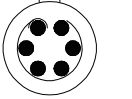
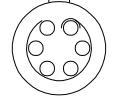
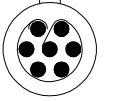
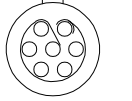
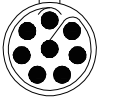
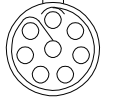
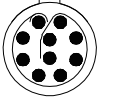
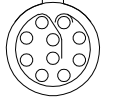
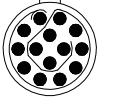
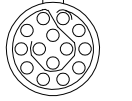

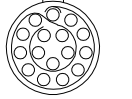
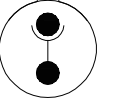
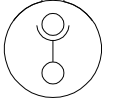

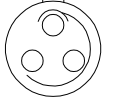

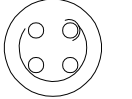

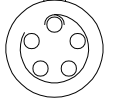



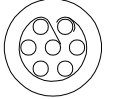
Insulator Configuration

	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
			P09	9	0.5	●	●	●	0.60	0.50	2.0
1C			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 alternative

RM-C

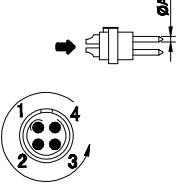
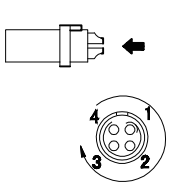



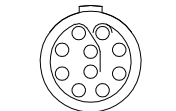

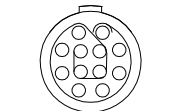

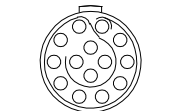
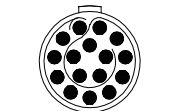
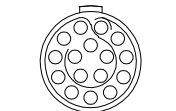
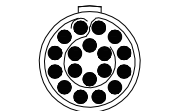
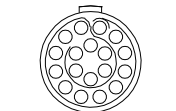

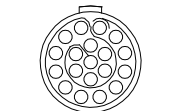

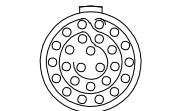
Insulator Configuration

	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 alternative

RM-C

Insulator Configuration

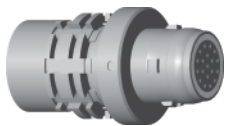
	solder male contact 	solder female contact 	Insulator	Contact No.	ØA(MM)	Contact type			Test voltage(contact -shell) kV AC-rms	Test voltage(contact -contact)kV AC-rms	Rated current /A
						Solder contact	PCB straight contact	PCB elbow contact			
2C			P08	8	0.9	●	●	●	1.50	1.25	10.0
			P10	10	0.9	●	●	●	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 alternative

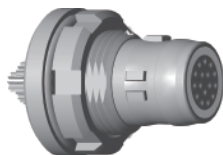
RM-C

RM-C Easy clean series

Plugs



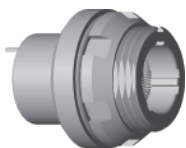
FA1



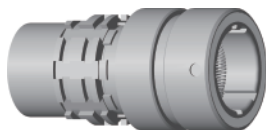
FAK

RM-C

Receptacles

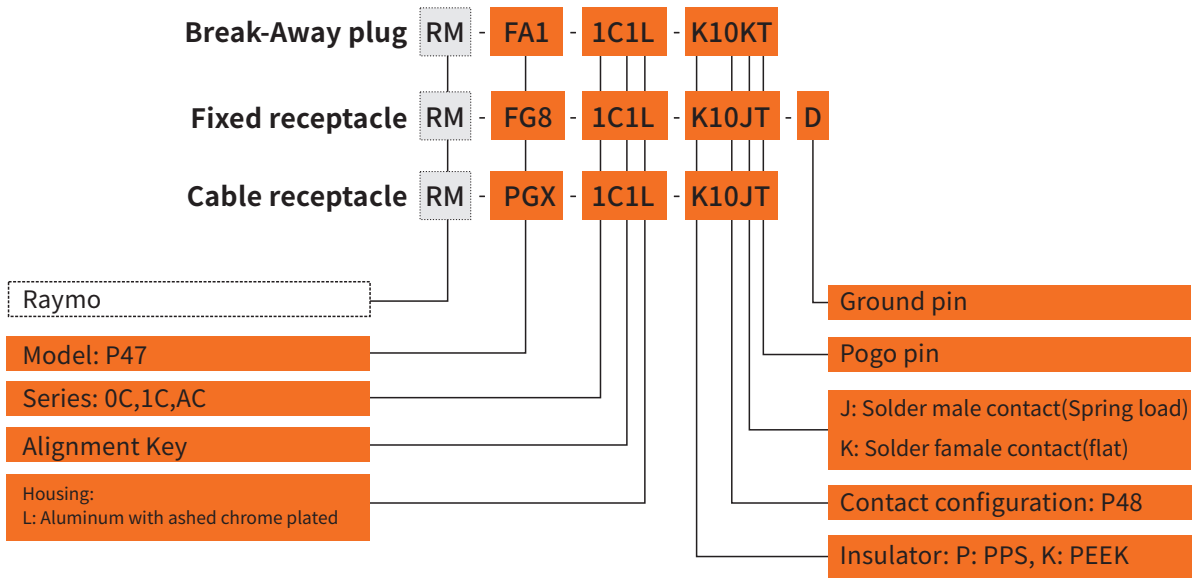


FG8



PGX

Part Numbering System



Part No.Example

Straight plug with cable collet

RM-FA1-1C1L-K10KT= Break-Away plug, 1C serie, key 1, 10 pins, aluminum with ashed chrome plated, PEEK insulator, solder female contact.

Fixed receptacle

RM-FG8-1C1L-K10JT-D= Fixed receptacle, 1C series, key 1, 10 pins, aluminum with ashed chrome plated, PEEK insulator, solder male contact, with ground pin.

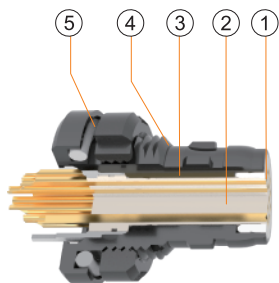
Free cable mount receptacle

RM-PGX-1C1L-K10JT= Cable receptacle, 1C series, key 1, 10 pins, aluminum with ashed chrome plated, PEEK insulator, solder female contact.

Part Section Showing Internal Components

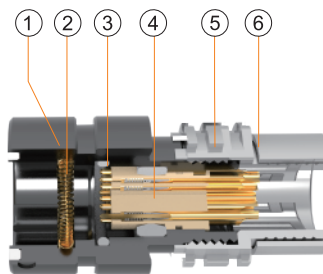
Cable Mount Plug

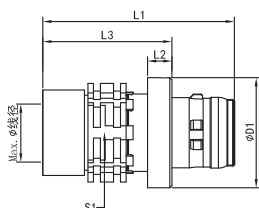
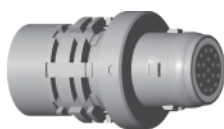
- ① Male contact
- ② Insulator
- ③ Latch sleeve
- ④ Outer shell
- ⑤ O-ring



Fixed Receptacle

- ① Outer shell
- ② Female contact
- ③ Outer o-ring
- ④ Insulator
- ⑤ Collet nut
- ⑥ EMI ring

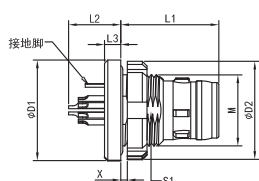
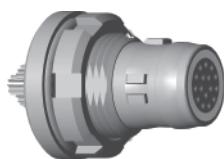




RM-FA1 Break-Away cable plug

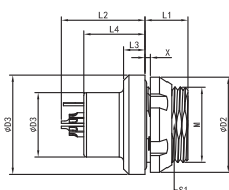
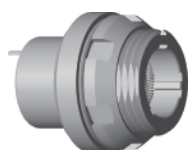
Reference		Dimensions(mm)					
Model	Series	L1	L2	L3	D1	S2	maxØ
RM-FA1	0C	23.5	3	15	11.9	9	5.5
RM-FA1	1C	26.6	3.5	18.4	13.9	11	6.5
RM-FA1	AC	27.5	3.5	18.5	15.9	12	8.0

RM-C



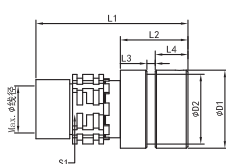
RM-FAK Break-Away fixed plug

Reference		Dimensions(mm)					
Model	Series	L1	L2	L3	D1	S2	M
RM-FAK	0C	15	6.4	2.5	13.2	9.2	M10*0.5
RM-FAK	1C	15	8.0	2.5	15.0	10	M11*0.75
RM-FAK	AC	16.5	9.7	4.0	17.9	13	M14*0.75



RM-FG8 Fixed receptacle

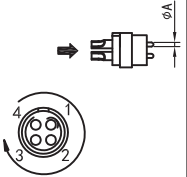
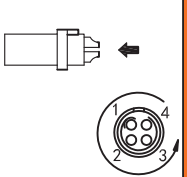










Reference		Dimensions(mm)									
Model	Series	L1	L2	L3	L4	Xmax	D1	D2	D3	S1	M
RM-FG8	0C	6.5	16.3	3	11.5	3.0	15.5	15.0	10	10	M11*0.75
RM-FG8	1C	8.0	14.9	4	10.5	3.5	18.5	17.9	12	13	M14*1.0
RM-FG8	AC	7.0	17.7	2.5	12.5	3.0	18.9	17.9	14	13	M14*0.75



RM-PGX Free cable mount receptacle

Reference		Dimensions(mm)							
Model	Series	L1	L2	L3	L4	D1	D2	S1	MaxØ
RM-PGX	0C	25	13	1.5	5.8	11.9	10.5	9	5.6
RM-PGX	1C	27	12.1	1.5	5.8	13.9	12.5	11	6.5
RM-PGX	AC	27	12	1.5	5.8	15.9	14.5	12	8

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			
0C			K04	4	0.6	●	●	○	0.6	0.6	2.0
			K07	7	0.6	●	●	○	0.6	0.6	2.0
1C			K10	10	0.6	●	●	○	0.6	0.6	2.0
			K16	16	0.6	●	●	○	0.6	0.6	2.0
AC			K19	19	0.6	●	●	○	0.6	0.6	2.0

- First choice alternative
- Special order alternative

RM-C