



RM-L Series

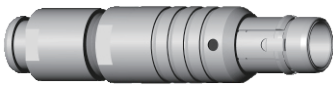
Metal Waterproof Push Pull Self-locking Connector

- Secure high performance push pull self-locking system
- Sealed up to IP68 and hermetic
- Alignment keys and polarized keying system to avoid cross-interface
- 360° EMC shielded
- High pin density contributing to equipment miniaturization
- 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-L Series

Plugs

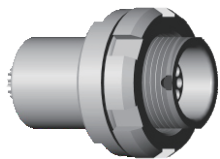


FS2

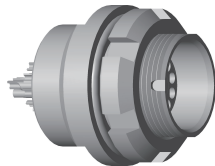


FSX

Receptacles

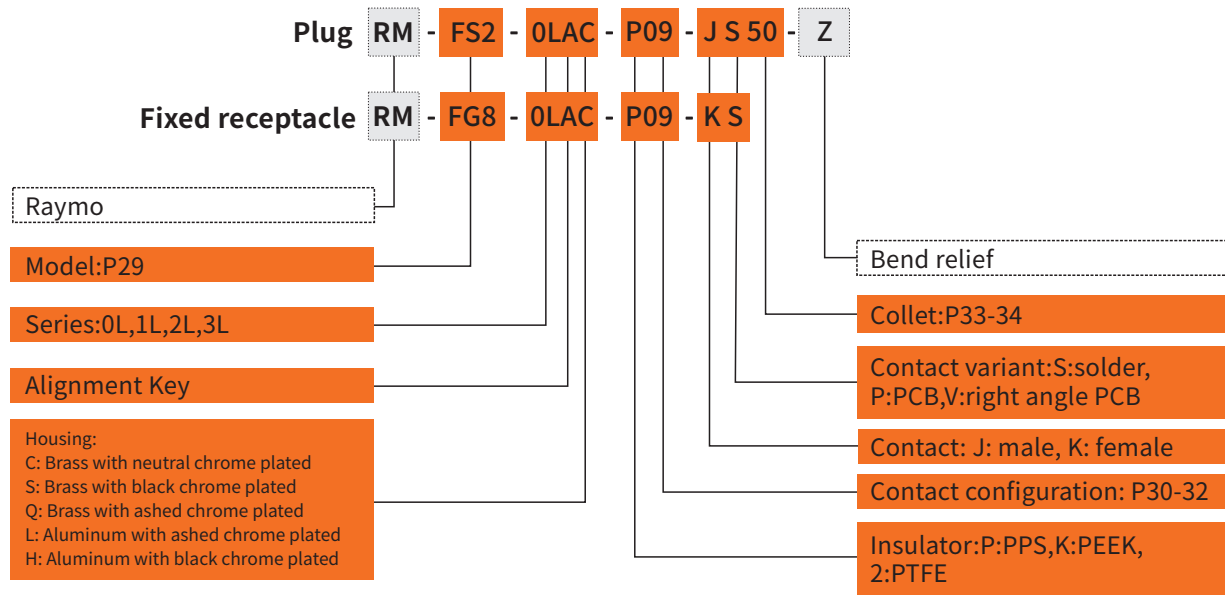


FG8



FGX

Part Numbering System



Part No.Example

Straight plug with cable collet

RM-FS2.0LAC.P09.S50Z straight plug,0L series, key 2,30 degree , multipole 9 contacts,outshell innatural chrome-plated brass, PPS insulator,male solder contacts,collet for4.2-5.2mm diameter cable,IP68.

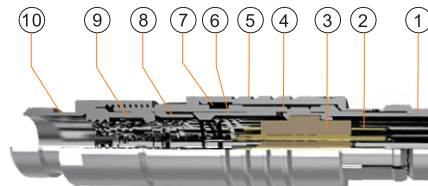
Fixed receptacle

RM-FG8-0LAC-P08KS fixed receptacle,0L series, key 2,30 degree, , mulitpole 8pin, outer shell in natural chrome-plated brass, PPS insulator, female solder contacts,IP68.

Part Section Showing Internal Components

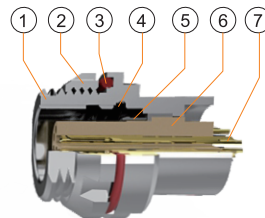
Cable Mount Plug

- ① conial Sleeve
- ② Male contact
- ③ Insulator
- ④ Latch sleeve
- ⑤ Outer shell
- ⑥ Split insert carrier A/B
- ⑦ Snap Spring
- ⑧ Earthing ring
- ⑨ Cable collet
- ⑩ Collet nut



Fixed Receptacle

- ① Outer shell
- ② Hexagonal nut
- ③ Outer o-ring
- ④ Inner o-ring
- ⑤ Retainingring
- 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

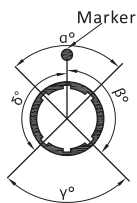
Characteristics		Value	Standard
Shielding efficiency	at 10 MHZ	>95 dB	IEC 60619-1-3
	at 1 GHz	>80 dB	IEC 60619-1-3

Alignment key and Polarized Keys(RM-L series)

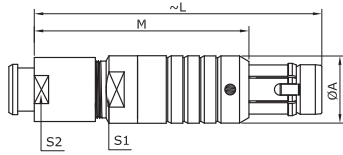
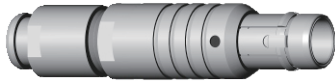
RM-L series connector model type are composed of five letters

The last letter indicated the key position and the contact type(male or female)

Front view of receptacle

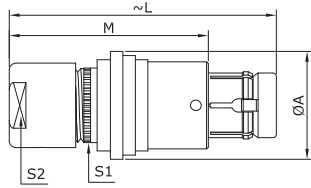


Code	Keys No.	Angles	Series			Contact Type	
			0L	1L	2L	Plug	Receptacle
0	1	α	0°	0°	0°	Male	Female
A	2		30°	30°	30°	Male	Female
B	2		-	-	37.5°	Male	Female
C	2		-	-	45°	Male	Female
F	2		60°	60°	60°	Male	Female
H	2		-	-	75°	Male	Female
J	2		90°	90°	-	Male	Female
C	2	γ	45°	45°	-	Male	Female
M	2	δ	-	-	100°	Male	Female
T	2		-	-	125°	Male	Female
V	2		-	135°	-	Male	Female
Q	2	β	-	120°	120°		
W	2		-	-	145°		
Y	2		155°	155°	-		



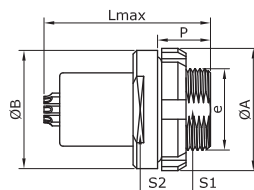
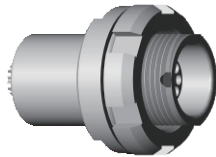
RM-FS2 Cable mount plug

Reference		Dimensions(mm)				
Model	Series	A	L	M	S1	S2
RM-FS2	0L	9.4	40	30	8	8
RM-FS2	1L	12	49	38	10	10
RM-FS2	2L	15	53	40	16	15



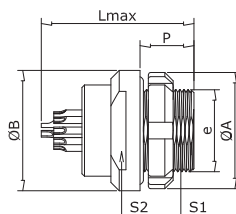
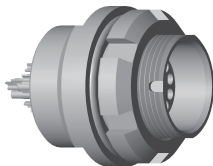
RM-FSX Straight plug, self-latching, IP68

Reference		Dimensions(mm)				
Model	Series	A	L	M	S1	S2
RM-FSX	XL	13	33.5	24	9	8



RM-FG8 Fixed receptacle, back panel mounting

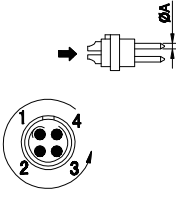
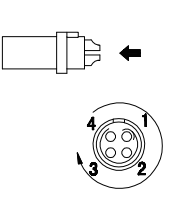
Reference		Dimensions(mm)						
Model	Series	A	B	e	L	P	S1	S2
RM-FG8	0L	15	14.5	M14*1.0	20.5	6.5	9	12
RM-FG8	1L	18	18	M14*1.0	26	8	12	15
RM-FG8	2L	21	21	M16*1.0	29	6	14.4	16



RM-FGX Straight plug, self-latching, IP68

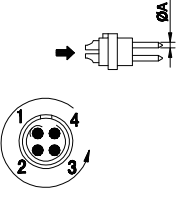
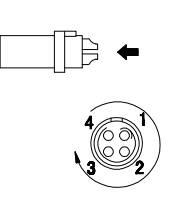
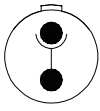
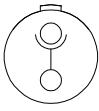
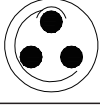
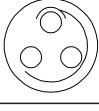
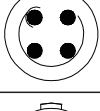
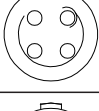
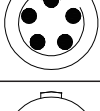
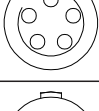
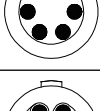
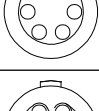
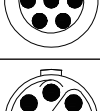
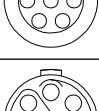
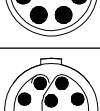
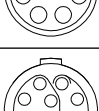
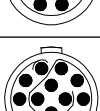
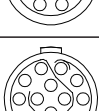
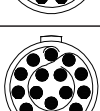
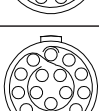
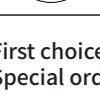
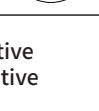
Reference		Dimensions(mm)						
Model	Series	A	B	e	L	P	S1	S2
RM-FGX	XL	14	14.5	M10*0.5	18.5	6.5	9.3	11

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			
0L			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
XL			P13	13	0.5	●	●	●	0.80	0.65	3.0
			P14	14	0.5	●	●	●	0.80	0.60	1.0
			P16	16	0.5	●	●	●	0.60	0.50	1.0
			P19	19	0.4	●	●	●	0.30	0.25	1.0

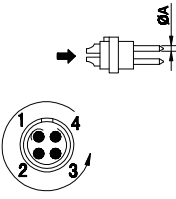
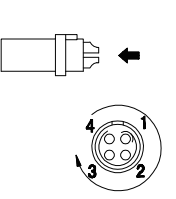
- First choice alternative
 ○ Special order alternative

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			
1L			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
			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

- 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			
2L			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
			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-L series Cable collet (Collet are same with RM-F series)

RM-0F-S



Sheilded Cable Clamp Set

Cable dia Range	Collet Ø (mm)	Cable Clamp Set	Cable dia Range	Collet Ø (mm)	Cable Clamp Set
1.5 - 2.1	2.1	RM-0F-S-021	3.6 - 4.1	4.1	RM-0F-S-041
2.1 - 2.6	2.6	RM-0F-S-026	4.1 - 4.3	4.3	RM-0F-S-043
2.6 - 3.1	3.1	RM-0F-S-031	4.3 - 4.7	4.7	RM-0F-S-047
3.1 - 3.6	3.6	RM-0F-S-036			

RM-0F-E



Environmentally Sealed Clamp Set

Cable dia Range	Collet Ø (mm)	Cable Clamp Set	Cable dia Range	Collet Ø (mm)	Cable Clamp Set
1.5 - 2.1	2.1	RM-0F-E-021	3.6 - 3.6	3.6	RM-0F-E-036
2.1 - 2.6	2.6	RM-0F-E-026	3.6 - 4.1	4.1	RM-0F-E-041
2.6 - 3.1	3.1	RM-0F-E-031	4.1 - 4.3	4.3	RM-0F-E-043

RM-1F-S



Sheilded Cable Clamp Set

Cable dia Range	Collet Ø (mm)	Cable Clamp Set PPS Insulator	Cable dia Range	Collet Ø (mm)	Cable Clamp Set PPS Insulator
1.7 - 2.2	2.2	RM-1F-S-022	4.2 - 4.7	4.7	RM-1F-S-047
2.2 - 2.7	2.7	RM-1F-S-027	4.7 - 5.2	5.2	RM-1F-S-052
2.7 - 3.2	3.2	RM-1F-S-032	5.2 - 5.7	5.7	RM-1F-S-057
3.2 - 3.7	3.7	RM-1F-S-037	5.7 - 6.2	6.2	RM-1F-S-062
3.7 - 4.2	4.2	RM-1F-S-042	6.2 - 6.7	6.7	RM-1F-S-067

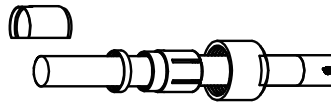
RM-1F-E



Environmentally Sealed Clamp Set

Cable dia Range	Collet Ø (mm)	Cable Clamp Set PPS Insulator	Cable dia Range	Collet Ø (mm)	Cable Clamp Set PPS Insulator
1.7 - 2.2	2.2	RM-1F-E-022	4.2 - 4.7	4.7	RM-1F-E-047
2.2 - 2.7	2.7	RM-1F-E-027	4.7 - 5.2	5.2	RM-1F-E-052
2.7 - 3.2	3.2	RM-1F-E-032	5.2 - 5.7	5.7	RM-1F-E-057
3.2 - 3.7	3.7	RM-1F-E-037	5.7 - 6.2	6.2	RM-1F-E-062
3.7 - 4.2	4.2	RM-1F-E-042			

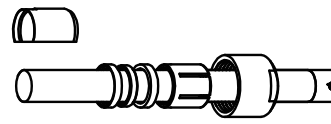
RM-L series Cable collet (Collet are same with RM-F series)



RM-AF-S

Shielded Cable Clamp Set

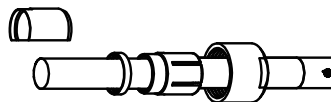
Cable dia Range	Collet Ø (mm)	Cable Clamp Set	Cable dia Range	Collet Ø (mm)	Cable Clamp Set
2.2 - 2.7	2.7	RM-AF-S-027	4.7 - 5.2	4.7	RM-AF-S-052
2.7 - 3.2	3.2	RM-AF-S-032	5.2 - 5.7	5.7	RM-AF-S-057
3.2 - 3.7	3.7	RM-AF-S-037	5.7 - 6.2	6.2	RM-AF-S-062
3.7 - 4.2	4.2	RM-AF-S-042	6.2 - 6.7	6.7	RM-AF-S-067
4.2 - 4.7	4.7	RM-AF-S-047	6.7 - 7.2	7.2	RM-AF-S-072



RM-AF-E

Environmentally Sealed Clamp Set

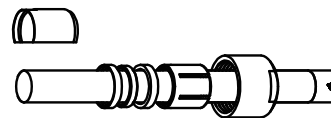
Cable dia Range	Collet Ø (mm)	Cable Clamp Set	Cable dia Range	Collet Ø (mm)	Cable Clamp Set
2.2 - 2.7	2.7	RM-AF-E-027	4.7 - 5.2	4.7	RM-AF-E-052
2.7 - 3.2	3.2	RM-AF-E-032	5.2 - 5.7	5.7	RM-AF-E-057
3.2 - 3.7	3.7	RM-AF-E-037	5.7 - 6.2	6.2	RM-AF-E-062
3.7 - 4.2	4.2	RM-AF-E-042	6.2 - 6.7	6.7	RM-AF-E-067
4.2 - 4.7	4.7	RM-AF-E-047			



RM-2F-S

Shielded Cable Clamp Set

Cable dia Range	Collet Ø (mm)	Cable Clamp Set	Cable dia Range	Collet Ø (mm)	Cable Clamp Set
2.9 - 4.0	4.0	RM-2F-S-040	6.7 - 7.7	7.7	RM-2F-S-077
4.0 - 4.7	4.7	RM-2F-S-047	7.7 - 8.7	8.7	RM-2F-S-087
4.7 - 5.7	5.7	RM-2F-S-057	8.7 - 9.1	9.1	RM-2F-S-091
5.7 - 6.7	6.7	RM-2F-S-067			



RM-2F-E

Environmentally Sealed Clamp Set

Cable dia Range	Collet Ø (mm)	Cable Clamp Set PPS Insulator	Cable dia Range	Collet Ø (mm)	Cable Clamp Set PPS Insulator
2.9 - 4.0	4.0	RM-2F-E-040	5.7 - 6.7	6.7	RM-2F-E-067
4.0 - 4.7	4.7	RM-2F-E-047	6.7 - 7.7	7.7	RM-2F-E-077
4.7 - 5.7	5.7	RM-2F-E-057	7.7 - 8.7	8.7	RM-2F-E-087