

RM-S Series

Half-moon Push Pull Self-locking Connector

- Secure high performance push pull self-locking system
- Unique half-moon design for blind-mated
- High pin density contributing to equipment miniaturization
- 360° EMC shielded
- 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

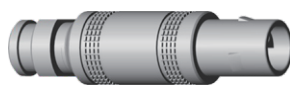


RM-S Series

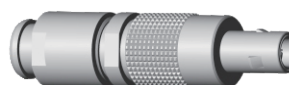
Plugs



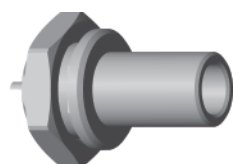
FFA



FFA



FFY



FAA

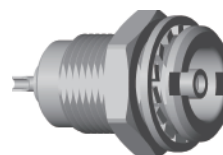
Receptacles



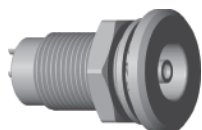
ERA



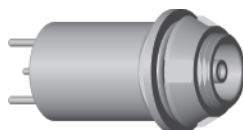
ERN



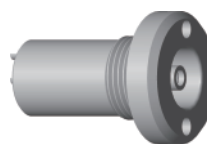
ERC



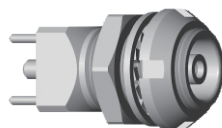
HGP



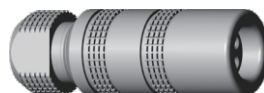
HEP



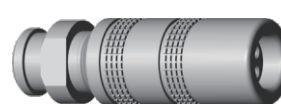
EWV



EPE

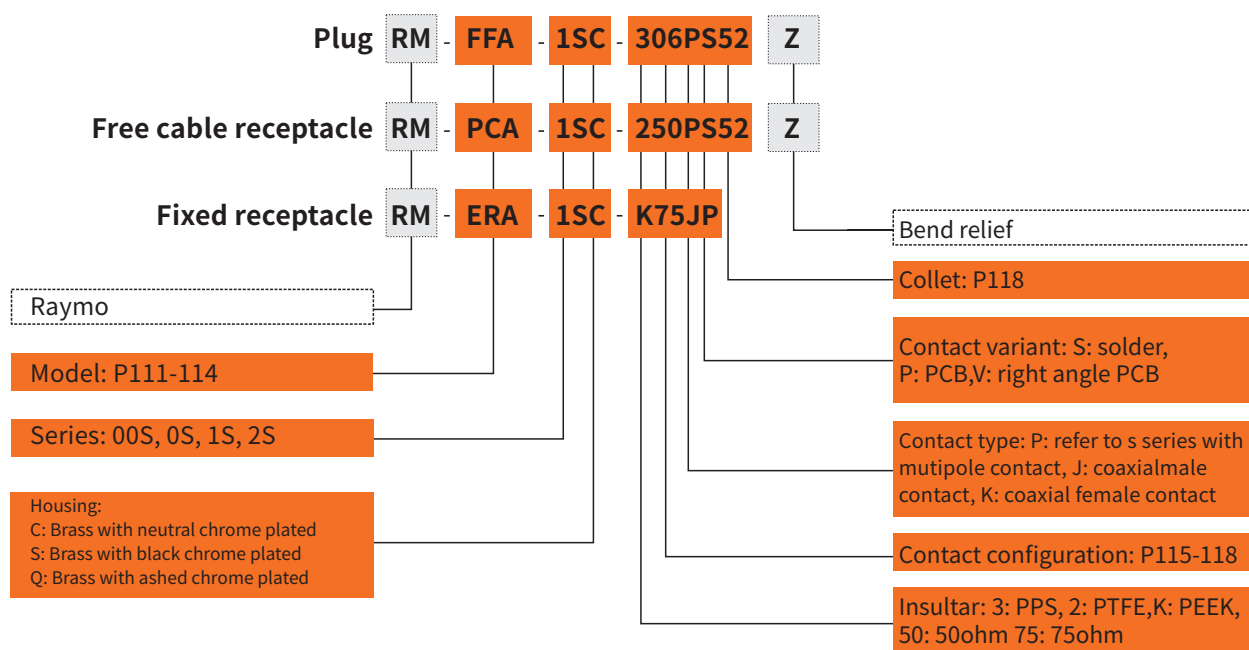


PCA



PCA

Part Numbering System



Part Number Example

Straight plug with cable collet

RM-FFA-1SC-306-JS52Z= straight plug with cable collet, 1S series, multipole 6 contacts, outer shell in natural chrome-plated brass, PPSs insulator, 3 male and 3 female solder contacts, cable collet for 4.2-5.2 mm diameter cable, with a black bend relief.

Fixed receptacle

RM-ERA-1SC-K75-KP= fixed receptacle, nut fixing, 1S series, coaxial female contact in PCB type, outshell in natural chrome-plated brass, PEEK insulator.

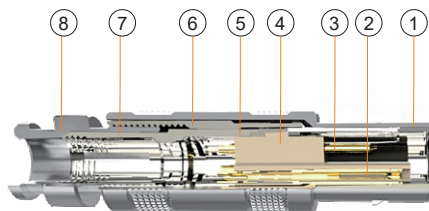
Free cable receptacle

RM-PCA-1SC-250-KS52Z= free cable receptacle with cable collet, 1S series, coaxial female contact, outshell in natural chrome-plated brass, PTFE insulator, collet for 4.2-5.2mm diameter cable with a black colour bend relief.

Part Section Showing Internal Components

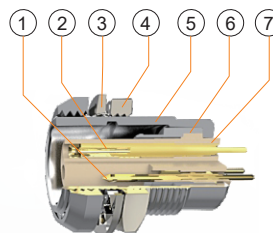
Cable Mount Plug

- ① Outer shell
- ② Female contact
- ③ Male contact
- ④ Insulator
- ⑤ Split insert carrier A/B
- ⑥ Latch sleeve
- ⑦ Cable collet
- ⑧ Collet nut



Fixed Receptacle

- ① Male contact
- ② Female contact
- ③ Locking washer
- ④ Hexagonal nut
- ⑤ Outer shell
- ⑥ Earthing crown
- ⑦ Insulator



RM-S

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)	IP50	IEC 60529
Climatical category	55/175/21	IEC 60068-1

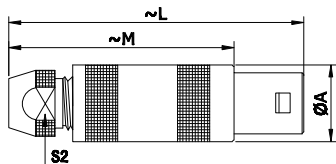
Electrical

Characteristics		Value	Standard
Shielding efficiency	at 10 MHZ	>75 dB	IEC 60619-1-3
	at 1 GHz	>40 dB	IEC 60619-1-3

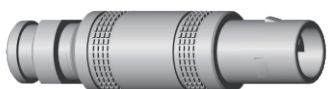
RM-S



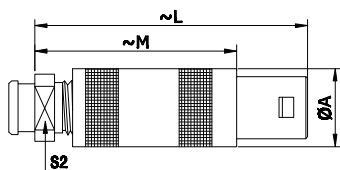
RM-FFA Cable Mount Straight Plug



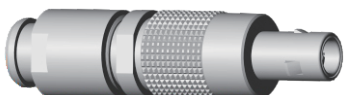
Reference		Dimensions(mm)			
Model	Series	A	L	M	S2
RM-FFA	00S	6.4	26.0	18.0	4.5
RM-FFA	0S	9.0	34.5	24.5	6.5
RM-FFA	1S	12.0	42.5	31.5	8.5
RM-FFA	2S	14.8	52.0	40.0	11.0
RM-FFA	3S	17.8	61.0	46.0	14.0



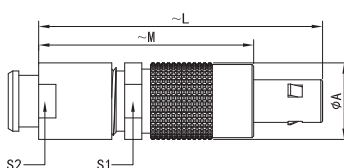
RM-FFA Cable Mount Straight Plug and Nut for fitting a bend relief



Reference		Dimensions(mm)			
Model	Series	A	L	M	S2
RM-FFA	00S	6.4	26.0	18.0	4.5
RM-FFA	0S	9.0	34.5	24.5	6.5
RM-FFA	1S	12.0	42.5	31.5	8.5
RM-FFA	2S	14.8	52.0	40.0	11.0
RM-FFA	3S	17.8	61.0	46.0	14.0

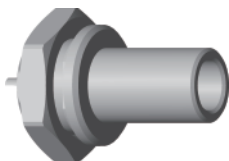


RM-FFY Cable Mount Straight Plug

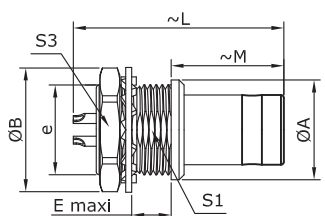


Reference		Dimensions(mm)				
Model	Series	A	M	L	S1	S2
RM-FFY	00S	8.9	25.0	33	8.0	8.0

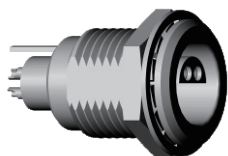
RM-S



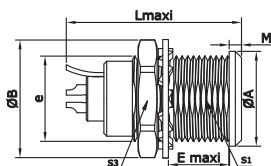
RM-FAA Cable Mount Straight Plug



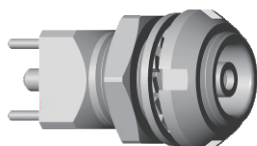
Reference		Dimensions(mm)							
Model	Series	A	B	e	E	L	M	S1	S3
RM-FAA	00S	8.0	10.2	M7*0.5	2.0	15.5	9.0	6.3	9.0
RM-FAA	0S	10.0	12.4	M9*0.6	2.0	18.5	11.2	8.2	11.0
RM-FAA	1S	14.0	15.8	M12*1.0	2.5	22.5	12.5	10.5	14.0
RM-FAA	2S	18.0	19.2	M15*1.0	4.0	25.0	13.8	13.5	17.0



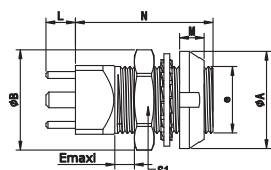
RM-ERN Panel Mount Fixed Receptacle, Nut fixing, with earthing tag



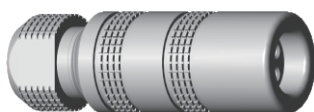
Reference		Dimensions(mm)								
Model	Series	A	B	e	E	L	L ¹⁾	M	S1	S3
RM-ERN	0S	10.0	12.4	M9*0.6	7.0	19.3	19.3	1.2	8.2	11.0
RM-ERN	1S	14.0	15.8	M12*1.0	7.5	22.4	22.4	1.5	10.5	14.0
RM-ERN	2S	18.0	19.2	M15*1.0	8.5	26.3	26.3	1.8	13.5	17.0
RM-ERN	3S	22.0	25.0	M18*1.0	11.5	29.8	29.8	2.0	16.5	22.0



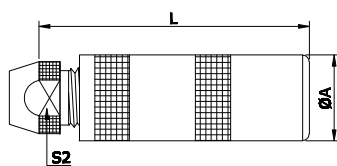
RM-EPE Panel Mount Receptacle



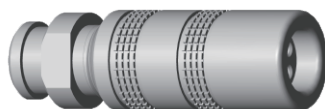
Reference		Dimensions(mm)								
Model	Series	A	B	e	E	M	N	L	S1	
RM-ERE	00S	10.0	10.2	M7*0.5	4.5	2.5	14.0	3.0	9.0	



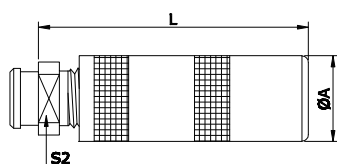
RM-PCA Cable Mount Receptacle



Reference		Dimensions(mm)		
Model	Series	A	L	S2
RM-PCA	00S	6.5	25.0	6.0
RM-PCA	0S	8.9	33.5	7.0
RM-PCA	1S	11.9	40.5	9.0
RM-PCA	2S	14.8	50.0	12.0
RM-PCA	3S	17.8	59.0	14.0

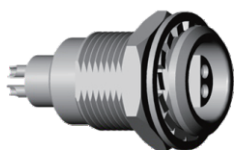


RM-PCA Cable Mount Receptacle, nut for fitting a bend relief

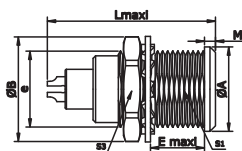


Reference		Dimensions(mm)		
Model	Series	A	L	S2
RM-PCA	00S	6.5	25.0	6.0
RM-PCA	0S	8.9	33.5	7.0
RM-PCA	1S	11.9	40.5	9.0
RM-PCA	2S	14.8	50.0	12.0
RM-PCA	3S	17.8	59.0	14.0

RM-S



RM-ERA Panel Mount Fixed Receptacle, Nut fixing



Reference		Dimensions(mm)							
Model	Series	A	B	e	E	L	M	S1	S3
RM-ERA	00S	8.0	10.2	M7*0.5	5.5	14.5	1.0	6.3	9.0
RM-ERA	0S	10.0	12.4	M9*0.6	7.0	17.5	1.2	8.2	11.0
RM-ERA	1S	14.0	15.8	M12*1.0	7.5	20.2	1.5	10.5	14.0
RM-ERA	2S	18.0	19.2	M15*1.0	8.5	24.5	1.8	13.5	17.0
RM-ERA	3S	22.0	25.0	M18*1.0	11.5	29.0	2.0	16.5	22.0

RM-S

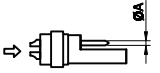



























Insulator Configuration

		Code	Ohm(Ω)	Contact diameter	Contact No.	Contact max. diameter	Insert max. diameter	Voltage standing-wave ratio VSWR(F=GHz)	Test voltage(kv/rms)	Current rate (A)
00S		250	50	0.7	50	1.05	3.05	1.09 +0.11f	2.1	4
0S		250	50	0.9	50	0.95	2.95	1.02 +0.25f	1.0	6
1S		250	50	1.6	50	1.35	3.95	1.01 +0.23f	1.0	12
		275	75	1.3	75	1.05	3.95	1.02 +0.08f	0.8	10
2S		250	50	2.0	50	1.75	5.95	1.01 +0.95f	1.0	15
		275	75	1.6	75	1.35	5.95	1.02 +0.03f	0.5	12

- First choice alternative
- Special order alternative

RM-S

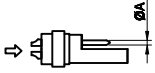

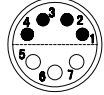
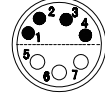
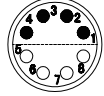

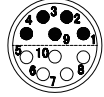
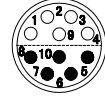
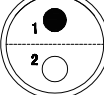
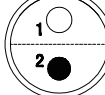
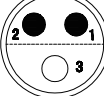
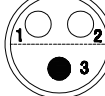

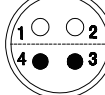
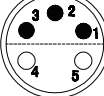

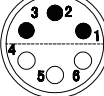

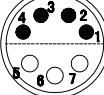
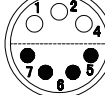
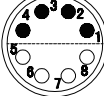
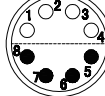
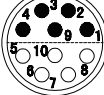
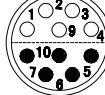
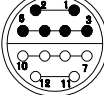
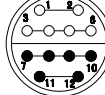
Insulator Configuration

	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			
0S			302	2	0.9	●	●	●	1.50	2.10	10.0
			303	3	0.7	●	●	●	1.00	1.50	7.0
			304	4	0.7	●	●	●	1.00	1.50	7.0
1S			302	2	1.3	●	○	○	1.20	1.80	15.0
			303	3	0.9	●	●	○	1.20	1.80	10.0
			304	4	0.9	●	●	●	1.20	1.80	10.0
			305	5	0.9 0.7	●	●	●	1.50 1.50	2.10 2.10	10.0 7.0
			306	6	0.7	●	●	●	1.50	2.10	7.0
	2S			302	2	1.6	●	○	○	1.70	2.40
			303	3	1.3	●	○	○	1.50	2.10	15.0
			304	4	1.3	●	○	○	1.70	2.40	15.0
			305	5	1.3	●	○	○	1.50	2.10	13.0
			306	6	1.3	●	○	○	1.50	2.10	12.0

- First choice alternative
- Special order alternative

RM-S

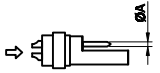
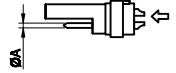
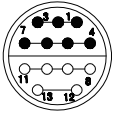
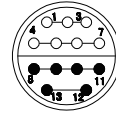
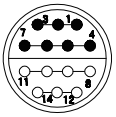
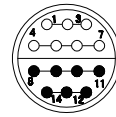
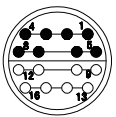
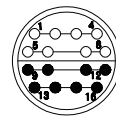
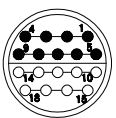
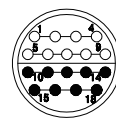
Insulator Configuration

	solder male contact 	solder female contact 	Insulator	Contact No.	ØA(MMM)	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			
			307	3 4	1.3 0.9	●	○	○	0.80 0.80	1.20 1.20	12.0 9.0
			308	8	0.9	●	○	○	0.80	1.20	9.0
			310	10	0.9	●	○	○	0.80	1.20	7.0
3S			302	2	2.0	●	●	○	3.0	4.20	23.0
			303	3	2.0	●	○	○	1.50	2.10	20.0
			304	4	2.0	●	○	○	1.50	2.10	18.0
			305	2 3	2.0 1.3	●	○	○	1.50 1.50	1.50 1.50	18.0 14.0
			306	6	1.3	●	○	○	2.10	3.0	14.0
			307	7	1.3	●	○	○	1.0	1.50	12.0
			308	8	1.3	●	○	○	1.0	1.50	10.0
			310	10	1.3	●	○	○	1.0	1.50	9.0
			312	12	0.9	●	○	○	1.50	2.10	8.0

- First choice alternative
- Special order alternative

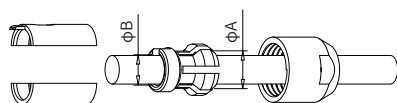
RM-S

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			
		313	13	0.9	●	○	○	1.50	2.10	8.0
		314	14	0.9	●	○	○	1.50	2.10	7.0
		316	16	0.9	●	○	○	1.0	1.50	7.0
		318	18	0.9	●	○	○	1.0	1.50	6.0

- First choice alternative
- Special order alternative

RM-S series Cable collet



Cable Clamp Set code	Cable collet (mm)		Cable dia Range	
	ΦA	ΦB	Max	Min
27	2.7	-	2.7	>2.2
45	5.2	4.2	5.2	>4.2
52	5.2	-	5.2	>4.2

RM-S