



# PRODUCTS CATALOG

Professional Circular Connector Manufacturer  
Cable Assembly Solutions Experts



RAYMO ELECTRONICS TECHNOLOGY LIMITED

## About"RAYMO"

RAYMO ELECTRONICSTECHNOLOGYLIMITED, here in after referred to as the " RAYMO",as a **Creative customer-oriented** manufacturer located in Shenzhen, focusing on manufacturing connectors and cable assemblies to serve over 75 countries and regions since 2010.

With professional R&D and excellent craftsmanship, our factory has the ability of providing customer with much more precision connectors and cable harness solutions to meet customer's demand in this field.

RAYMO has already established an integrated quality control system from R&D, SupplyChain, Marketing, Sales, after-sales service to meet customer deeper demand, and expect to achieve Raymo's globalization strategy.

### More than 3, 000 types connectors

Aimed on providing customer with suitable higher-qualified connectors and cable assemblies, our factory has already designed and developed over 3,000 types of connectors and 1,000 kinds of OEM cable assemblies based on customer real needs since the establishment.

### Applications

RAYMO connectors and cable assemblies have been found to be widely used in the areas of telecommunication, electronics, medical equipments, Aviation, Audio-video, Petroleum, motor and power industries, electrical signal connection, IC control systems, test and measurement instruments, etc.

### Our Missions

Design and develop more precision and suitable push pull connectors and cable assemblies for all humanity and the world  
Provide better living conditions for employees

### Certificates

CE,RoHS,ISO:9001-2015,SGS,REACH



Building



Office



R&D



Production Department



Cable Warehouse



Warehouse



CNC Department



Over-Mold Department

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# RM-F Series

## Metal Waterproof Push Pull Self-locking Connector

- Secure high performance push pull self-locking system
- Sealed up to IP68 and hermetic
- 3 codes alignment key 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-F Series

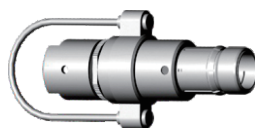
## Plugs



S/SC



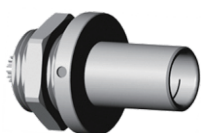
SS/SSC



FS7



WSO



SFE/SFU

## Receptacles



D



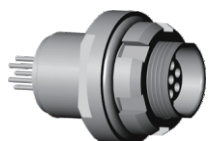
DEE/DEU



DBP



DBPC



DBPE/DBPU



DBPLE/DBPLU



DBEE/DBEU



FG8



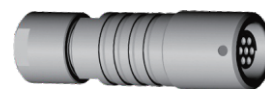
FGX



FGD



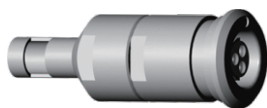
FGS



KE/K

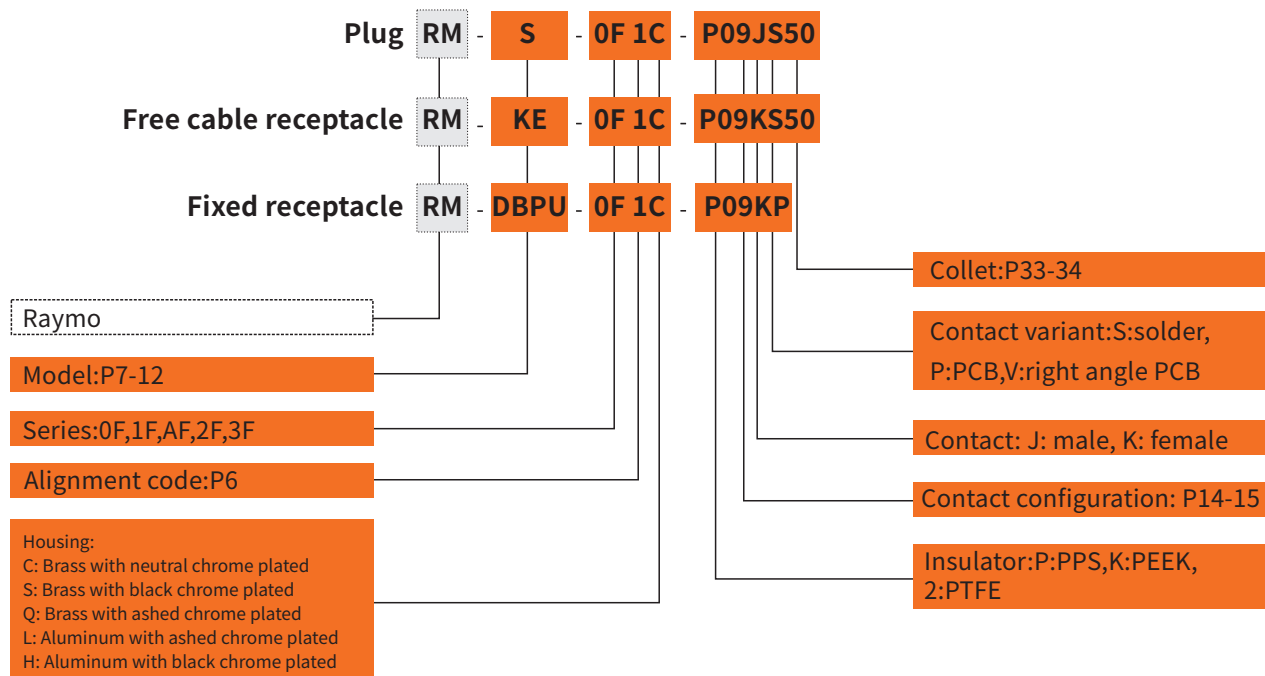


KSE/KS



PGX

## Part Numbering System



## Part No.Example

### Straight plug with cable collet

RM-S-OF1C-PO9.S50Z straight plug, OF series, code 1, multipole 9 contacts, outer shell in natural chrome-plated brass, PPS insulator, male solder contacts, collet for 4.2-5.2mm diameter cable with a black colour bend relief, IP68.

### Free cable mount receptacle

RM-KE-OF1C-PO9KS50 free cable receptacle, OF series, code 1 multipole 9 contacts, outer shell in natural chrome-plated brass, PPS insulator, female solder contacts, collet for 4.2-5.2 mm diameter cable, IP68.

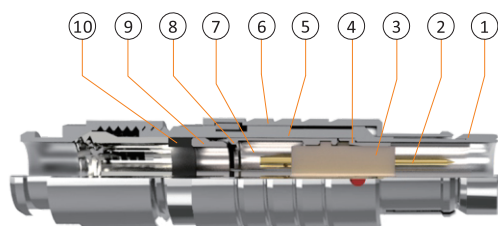
### Fixed receptacle

RM-DBPU-OF1C-PO9KP fixed receptacle, nut fixing, OF series, code 1, multipole 9 contacts, outer shell in natural chrome-plated brass, PPS insulator, female PCB contacts, IP68.

## Part Section Showing Internal Components

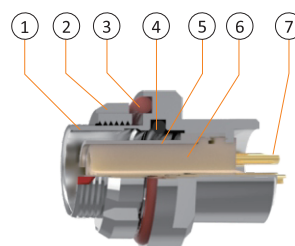
### Cable Mount Plug

- ① Conical Sleeve
- ② Male contact
- ③ Insulator
- ④ Fixed spacer
- ⑤ Latch sleeve
- ⑥ Outer shell
- ⑦ Split insert carrier A/B
- ⑧ Snap spring
- ⑨ EMI ring
- ⑩ O-ring



### Fixed Receptacle

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



## Technical Characteristics

### Mechanical and Climatical

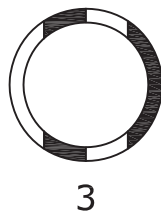
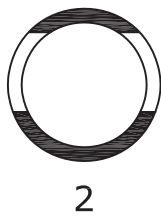
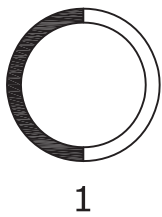
Characteristics	Value	Standard
Endurance	>5000cycles	IEC60512-5test9a
Humidity	Up to 95% at 60°C	
Temperature range	-55°C,+250°C	
Resistance to vibration	10-2000Hz,15g	IEC 60512-4 test 6d
Shock resistance	100g,6ms	IEC 60512-4 test 6c
Salt spray corrosion test	>96hrs	IEC 60512-6 test 11f
Protection index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

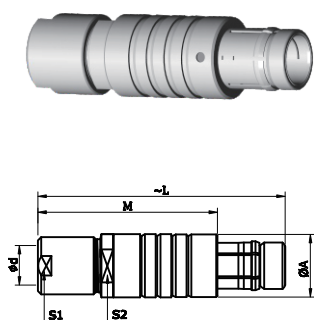
### Electrical

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

### Code Options

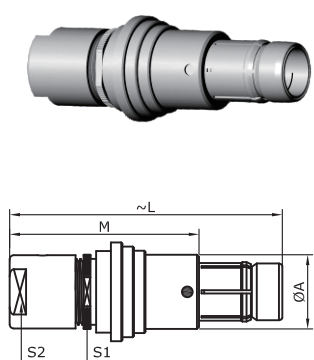
Code 1 is standard, if for other codes, please specify.





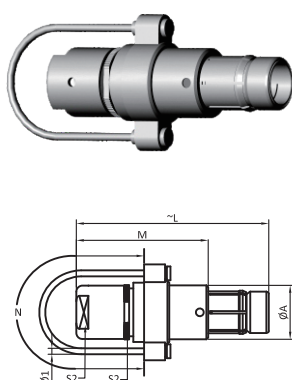
## RM-S/SC Cable Mount Plug

Reference		Dimensions(mm)						
Model	Series	A	M	L	d max		S1	S2
					shielded clamp	sealed clamp		
RM-S/SC	0F	9.4	26	37.2	4.7	4.3	8	8
RM-S/SC	1F	12	34	45	6.7	6.2	9	9
RM-S/SC	AF	13	36	46	7.2	6.7	12	11
RM-S/SC	2F	15	36	48	8.7	8.7	13	13



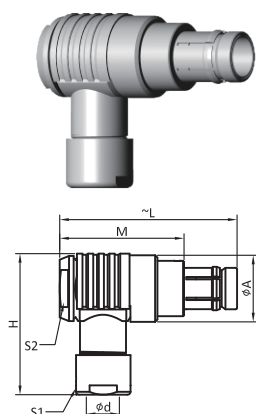
## RM-SS/SSC Cable Mount Short Plug

Reference		Dimensions(mm)						
Model	Series	A	L	M	d max		S1	S2
					shielded clamp	sealed clamp		
RM-SS/SSC	0F	9	33	23	4.7	4.3	8	7
RM-SS/SSC	1F	12	37	26	6.7	6.2	11	12
RM-SS/SSC	AF	12.3	40	30	7.2	6.7	11.5	12
RM-SS/SSC	2F	15	43	31	8.7	8.7	13	13



## RM-FS7 Cable Mount Plug with lanyard

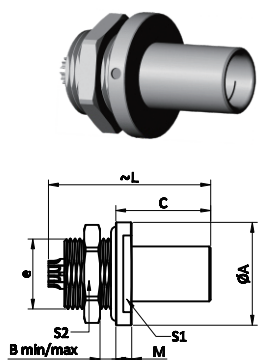
Reference		Dimensions(mm)							
Model	Series	A	L	M	N	dmax		S1	S2
						shielded clamp	sealed clamp		
RM-FS7	0F	9	33	23	60	4.7	4.3	8	8
RM-FS7	1F	12	37	26	80	6.7	6.2	11	12
RM-FS7	AF	12.3	40	30	80	7.2	6.7	11.5	12
RM-FS7	2F	15	43	31	100	8.7	8.7	13	13



## RM-WSO Elbow Right-angle Cable Mount Plug

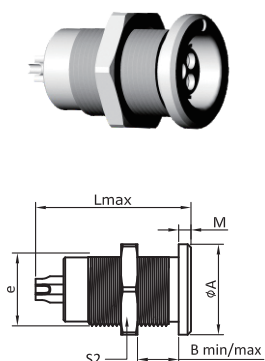
Reference		Dimensions(mm)							
Model	Series	A	L	M	H	d <sup>max</sup>		S1	S2
						shielded clamp	sealed clamp		
RM-WSO	0F	12	33	23	25	4.7	4.3	7	8
RM-WSO	1F	15	38	28.7	31	6.7	6.2	10	11
RM-WSO	AF	17	40	30	33	7.2	6.7	12	12
RM-WSO	2F	19	45	33	37	8.7	8.7	13	14





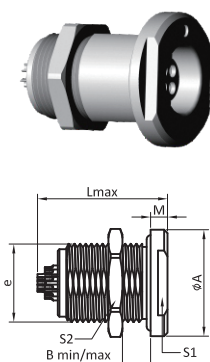
## RM-SFE/SFU Fixed Sealed Panel Mount Plug

Reference		Dimensions(mm)							
Model	Series	A	B	C	e	L	M	S1	S2
RM-SFE/SFU	0F	13	0/2.5	13.0	M9*0.5	21	3.0	11	11
RM-SFE/SFU	1F	17	0/5.0	14.0	M12*1.0	26	3.0	14	14
RM-SFE/SFU	AF	19	0/4.0	13.7	M14*1.0	26.5	3.7	17	14
RM-SFE/SFU	2F	22	0/7.5	15.0	M16*1.0	28	3.0	19	19



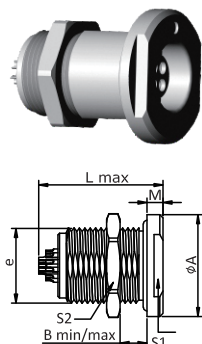
## RM-D Panel Mount Receptacle

Reference		Dimensions(mm)						
Model	Series	A	B	e	L	M	S2	
RM-D	0F	11	0/9	M9*0.5	18.9	1.5	11	
RM-D	1F	14	0/8	M12*1.0	23.9	1.5	14	
RM-D	AF	16	0/10	M14*1.0	23.3	2	17	
RM-D	2F	19	0/11	M15*1.0	25.8	2.2	17	



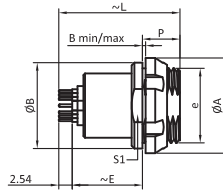
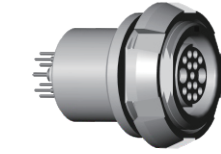
## RM-DEE Hermetic Panel Mount Receptacle, Nut fixing

Reference		Dimensions(mm)							
Model	Series	A	B	e	L	M	S1	S2	
RM-DEE	0F	14	8/10	M9*0.5	20	2.5	11	11	
RM-DEE	1F	18	0/12	M14*1.0	23.9	3.0	14	17	
RM-DEE	AF	19	0/12	M14*1.0	23.3	3.0	15	17	
RM-DEE	2F	20	0/13	M16*1.0	25.8	4.0	17	19	



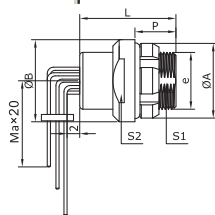
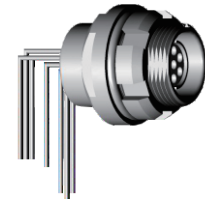
## RM-DEU Sealed Panel Mount Receptacle, Nut fixing

Reference		Dimensions(mm)							
Model	Series	A	B	e	L	M	S1	S2	
RM-DEU	0F	14	8/10	M9*0.5	20	2.5	11	11	
RM-DEU	1F	18	0/12	M14*1.0	23.9	3.0	14	17	
RM-DEU	AF	19	0/12	M14*1.0	23.3	3.0	15	17	
RM-DEU	2F	20	0/13	M16*1.0	25.8	4.0	17	19	



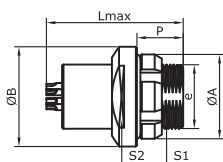
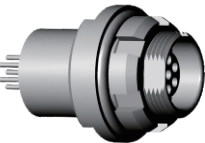
## RM-DBP Fixed Panel Mount Receptacle

Reference		Dimensions(mm)						
Model	Series	A	B	P	E	e	L	S1
RM-DBP	0F	12	0/3.5	6.5	10	M9*0.5	20	10
RM-DBP	1F	15	0/4.0	8.0	12	M12*1.0	23	-
RM-DBP	AF	18	0/3.0	7.0	13	M14*1.0	23	-
RM-DBP	2F	16	0/5.0	9.0	11.5	M15*1.0	26	-



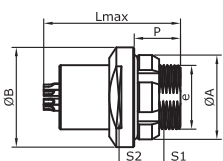
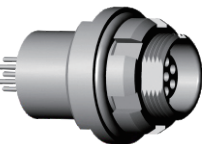
## RM-DBPC Panel Mount Receptacle, in elbow 90° pcb type

Reference		Dimensions(mm)						
Model	Series	A	B	e	L	P	S1	S2
RM-DBPC	0F	12	14	M9*0.5	19.2	6.5	8.2	11
RM-DBPC	1F	18	18	M14*1.0	24.8	8	12.5	15
RM-DBPC	AF	18	19	M14*1.0	23.1	7	12	15
RM-DBPC	2F	20.8	21	M16*1.0	24.2	8	14.3	16



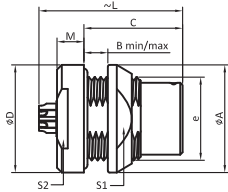
## RM-DBPE Hermetic Panel Mount Receptacle

Reference		Dimensions(mm)						
Model	Series	A	B	e	L	P	S1	S2
RM-DBPE	0F	12	14	M9*0.5	19.2	6.5	8.2	11
RM-DBPE	1F	18	18	M14*1.0	24.8	8	12.5	15
RM-DBPE	AF	18	19	M14*1.0	23.1	7	12	15
RM-DBPE	2F	20.8	21	M14*1.0	24.2	8	14.3	16



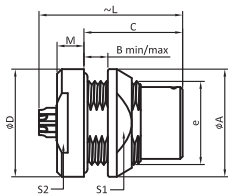
## RM-DBPU Sealed Panel Mount Receptacle

Reference		Dimensions(mm)						
Model	Series	A	B	e	L	P	S1	S2
RM-DBPU	0F	12	14	M9*0.5	19.2	6.5	8.2	11
RM-DBPU	1F	18	18	M14*1.0	24.8	8	12.5	15
RM-DBPU	AF	18	19	M14*1.0	23.1	7	12	15
RM-DBPU	2F	20.8	21	M14*1.0	24.2	8	14.3	16



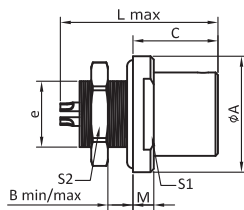
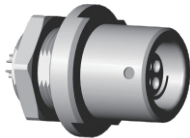
### RM-DBPLE Fixed Front Hermetic Mount Receptacle

Reference		Dimensions(mm)								
Model	Series	A	B	C	e	L	D	M	S1	S2
RM-DBPLE	0F	13	0/4.5	10	M10*0.5	17	14	3.5	11	11
RM-DBPLE	1F	28	0/5.0	17.5	M14*1.0	24	18	4.5	15	15
RM-DBPLE	AF	20	0/5.5	16.5	M15*1.0	23	19	4.5	17	15
RM-DBPLE	2F	20	0/6.5	17	M16*1.0	27	22	5.0	17	17



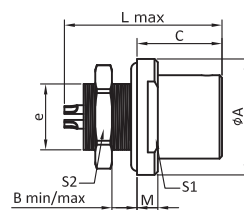
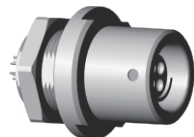
### RM-DBPLU Fixed Sealed Front Mount Receptacle

Reference		Dimensions(mm)								
Model	Series	A	B	C	e	L	D	M	S1	S2
RM-DBPLU	0F	13	0/4.5	10	M10*0.5	17	14	3.5	11	11
RM-DBPLU	1F	28	0/5.0	17.5	M14*1.0	24	18	4.5	15	15
RM-DBPLU	AF	20	0/5.5	16.5	M15*1.0	23	19	4.5	17	15
RM-DBPLU	2F	20	0/6.5	17	M16*1.0	27	22	5.0	17	17



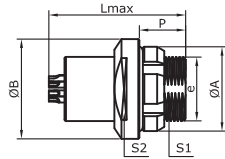
### RM-DBEE Front Hermetic Panel Mount Receptacle

Reference		Dimensions(mm)							
Model	Series	A	B	C	e	L	M	S1	S2
RM-DBEE	0F	11	0/3.5	10.2	M9*0.5	20	2.5	11	11
RM-DBEE	1F	14	0/4.0	13.0	M14*1.0	23.9	3.0	14	14
RM-DBEE	AF	19	0/4.0	12.0	M14*1.0	23.3	3.0	15	14
RM-DBEE	2F	21.8	0/3.5	16.0	M16*1.0	25.8	4.0	17	19



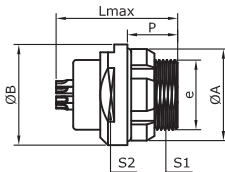
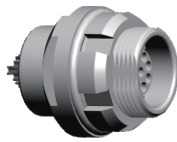
### RM-DBEU sealed Front Panel Mount Receptacle

Reference		Dimensions(mm)							
Model	Series	A	B	C	e	L	M	S1	S2
RM-DBEU	0F	11	0/3.5	10.2	M9*0.5	20	2.5	11	11
RM-DBEU	1F	14	0/4.0	13.0	M14*1.0	23.9	3.0	14	14
RM-DBEU	AF	19	0/4.0	12.0	M14*1.0	23.3	3.0	15	14
RM-DBEU	2F	21.8	0/3.5	16.0	M16*1.0	25.8	4.0	17	19



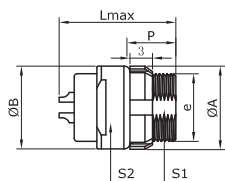
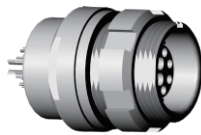
### RM-FG8 Sealed Panel Mount Receptacle

Reference		Dimensions(mm)							
Model	Series	A	B	e	L	P	S1	S2	
RM-FG8	0F	12	14	M9*0.5	19.2	6.5	8.2	11	



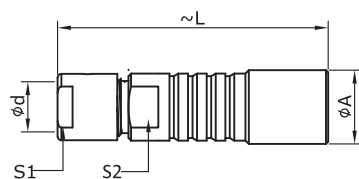
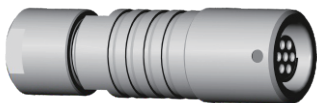
### RM-FGX Sealed Panel Mount Receptacle only for 0F series

Reference		Dimensions(mm)							
Model	Series	A	B	e	L	P	S1	S2	
RM-FGX	0F	12	13	M9*0.5	15.7	6.5	8.2	11	



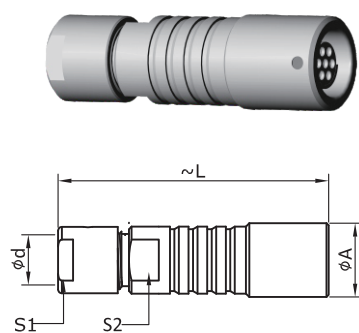
### RM-FGD Panel Mount Receptacle, nut fixing

Reference		Dimensions(mm)							
Model	Series	A	B	e	L	M	S1	S2	
RM-FGD	0F	12	12	M9*0.5	15.7	6.5	8.2	11	



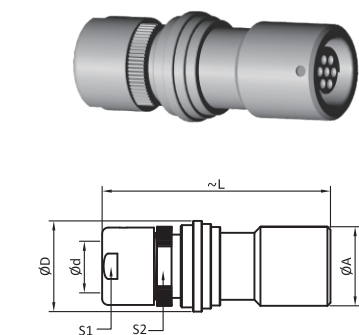
### RM-KE Sealed Cable Mount Receptacle

Reference		Dimensions(mm)						
Model	Series	A	L	d max		S1	S2	
				shielded clamp	sealed clamp			
RM-KE	0F	10	36	4.7	4.3	7	7	
RM-KE	1F	13	43	6.7	6.2	10	10	
RM-KE	AF	13.5	45	7.2	6.7	12	11	
RM-KE	2F	16	48	8.7	8.7	13	12	



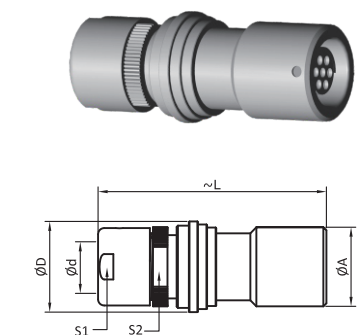
## RM-K Cable Mount Receptacle

Reference		Dimensions(mm)					
Model	Series	A	L	d max		S1	S2
RM-K	0F	10	36	shielded clamp	sealed clamp	7	7
RM-K	1F	13	43	6.7	6.2	10	10
RM-K	AF	13.5	45	7.2	6.7	12	11
RM-K	2F	16	48	8.7	8.7	13	12



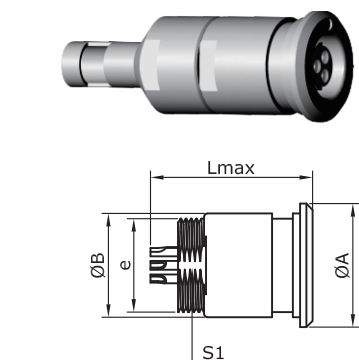
## RM-KSE Short Sealed Cable Mount Receptacle

Reference		Dimensions(mm)					
Model	Series	A	L	M	d max	S1	S2
RM-KSE	0F	10	32	23	3.8	8	8
RM-KSE	1F	13	37	26	6.0	11	12
RM-KSE	AF	13.5	36	30	6.2	11.5	12
RM-KSE	2F	16	45	31	8.0	13	13



## RM-KS Short Cable Mount Receptacle

Reference		Dimensions(mm)					
Model	Series	A	L	M	d max	S1	S2
RM-KS	0F	10	32	23	3.8	8	8
RM-KS	1F	13	37	26	6.0	11	12
RM-KS	AF	13.5	36	30	6.2	11.5	12
RM-KS	2F	16	45	31	8.0	13	13

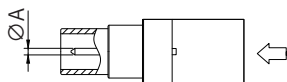














## RM-PGX Cable Mount Receptacle only used by overmoulding

Reference		Dimensions(mm)				
Model	Series	A	B	e	L	S1
RM-PGX	0F	12	10	M9*0.5	15.5	8.2
RM-PGX	1F	16	14	M12*0.6	24.8	9.0
RM-PGX	AF	16	14	M12*0.6	23.1	10
RM-PGX	2F	18	16	M14*0.6	24.2	12

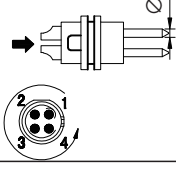
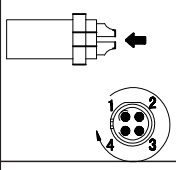




































## Insulator Configuration

			Code	Ohm( $\Omega$ )	Contact diameter	Contact No.	Contact max.diameter	Insert max.diameter	Voltage standing-wave ratio VSWR(F=GHz)	Test voltage(kv/rms)	Curent rate(A)
0F			250	50	0.9	50	0.95	2.95	1.09 +0.11f	3.0	6
			275	75	0.7	75	1.05	3.95	1.02 +0.25f	2.4	3
1F			250	50	1.6	50	1.35	3.95	1.01 +0.23f	3.0	12
			275	75	1.3	75	1.05	3.95	1.02 +0.08f	2.4	10
2F			250	50	2.0	50	1.75	5.95	1.01 +0.95f	3.0	15
			275	75	1.6	75	1.35	5.95	1.02 +0.03f	1.5	12

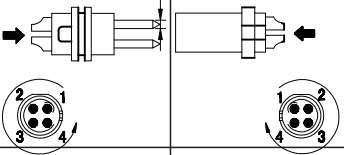


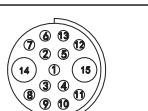

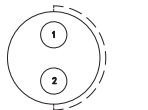
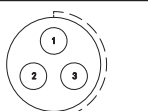
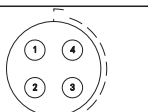
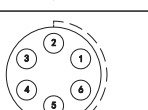
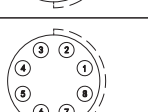
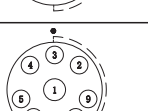
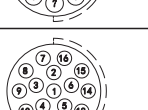
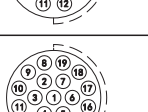
- First choice alternative
- Special order alternative

## Insulator Configuration

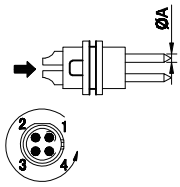
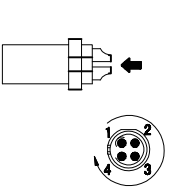
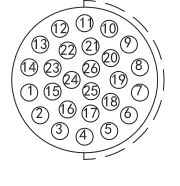
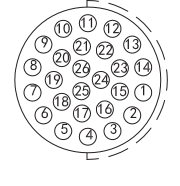
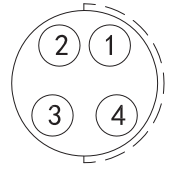
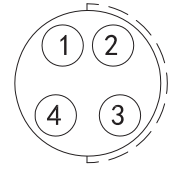
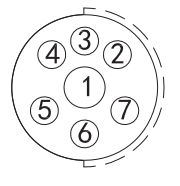
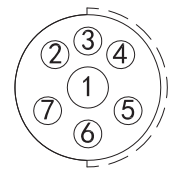
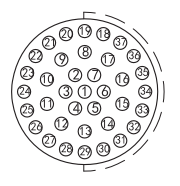
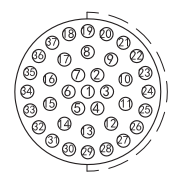
											
			Code	Contact No.	ØA (MM)	Solder contact	PCB straight contact	PCB elbow contact	Test voltage(contact -shell)k/v AC-rms	Test voltage(contact -contact)k/v AC-rms	Rated current /A
0F			P02	2	0.9	●	●	●	1.30	1.05	9.2
			P03	3	0.9	●	●	●	1.20	0.90	8.2
			P04	4	0.7	●	●	●	0.85	0.70	5.5
			P05	5	0.7	●	●	●	1.00	0.70	5.2
			P07	7	0.5	●	●	●	0.80	0.70	2.0
			P09	9	0.5	●	●	●	0.60	0.50	1.7
1F			P02	2	1.3	●	●	●	1.50	1.35	13.0
			P03	3	1.3	●	●	●	1.30	1.55	12.0
			P04	4	0.9	●	●	●	1.35	1.45	7.0
			P05	5	0.9	●	●	●	1.25	1.15	6.8
			P06	6	0.7	●	●	●	1.05	1.20	5.2
			P07	7	0.7	●	●	●	0.95	1.05	5.0
			P08	8	0.7	●	●	●	0.95	1.15	3.8
			P10	10	0.5	●	●	●	0.90	1.50	2.5
			P12	12	0.5	●	●	●	0.80	1.20	2.0
			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

		Code	Contact No.	Ø A (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
AF		P10	10	0.7	●	●	●	1.40	1.50	4.5
		P12	12	0.7	●	●	●	1.40	1.50	3.0
		P15	2 13	1.3 0.5	●	●	●	1.50 1.20	1.35 0.90	12.0 2.5
		P19	19	0.5	●	●	●	1.20	0.90	2.5
2F		P02	2	1.6	●	●	●	1.80	2.20	20.0
		P03	3	1.6	●	●	●	1.60	2.00	18.0
		P04	4	1.3	●	●	●	1.80	2.20	12.0
		P06	6	0.9	●	●	●	1.70	2.00	6.5
		P08	8	0.9	●	●	●	1.50	1.50	6.2
		P09	1 8	1.3 0.9	● ●	● ●	● ●	2.40 1.40	2.20 1.50	12.0 6.0
		P16	16	0.7	●	●	●	1.00	1.50	4.0
		P19	19	0.7	●	●	●	0.80	1.20	3.5

- First choice alternative  
○ Special order alternative

			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
2F			P26	26	0.5	●	○	○	0.75	1.1	1.0
3F			P04	4	2.0	●	○	○	1.8	2.6	20.0
			P07	1	2.0	●	○	○	2.0	3.0	25.0
				6	1.3	●	○	○	1.5	2.0	7.0
			P37	27	0.5	●	○	○	0.75	1.0	1.0
				10	0.7	●	○	○	0.75	1.1	2.2

● First choice alternative  
○ Special order alternative