raymo
circular connector

RM-T series

Push-pull Self-latching Metal Connector

T series has same insualtor and contact configuartion to F series:

- Secure Push-pull Self-latching system
- IP66/68
- Alignment Key and Polarized Keying System to avoid cross-interface.
- 360° EMC shielding
- High density assembly to save space.
- Available solder and PCB or right angle PCB contact.

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Technical Characteristics

Mechanical and Climatical

Characteristics	Value	Standard
Endurance	>5000cycles	IEC60512-5test9a
Humidity	Up to 95% at60°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

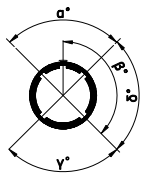
Electrical

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

Alignment Key and Polarized Keying System (T series)

T series connector model part numbers are composed of three letters.
The LAST LETTER indicates the key position andthe contact type (male or female).

Front view of receptacle



Code	Keys No.	Angles	Series				Contact Type	
			0T	1T	AT	2T	Plug	Receptacle
1	1		-	0°	0°	0°	Male	Female
2	2	α	-	30°	30°	30°	Male	Female
3	2		60°	45°	45°	45°	Male	Female
4	2		-	60°	60°	60°	Male	Female
5	2		90°	90°	90°	90°	Male	Female
1	1	γ	0°	-	-	-	Male	Female
2	2		30°	-	-	-	Male	Female
4	2		45°	-	-	-	Male	Female
6	2	δ	155°	-	-	-	Male	Female
6	2	β		155°	155°	155°	Male	Female

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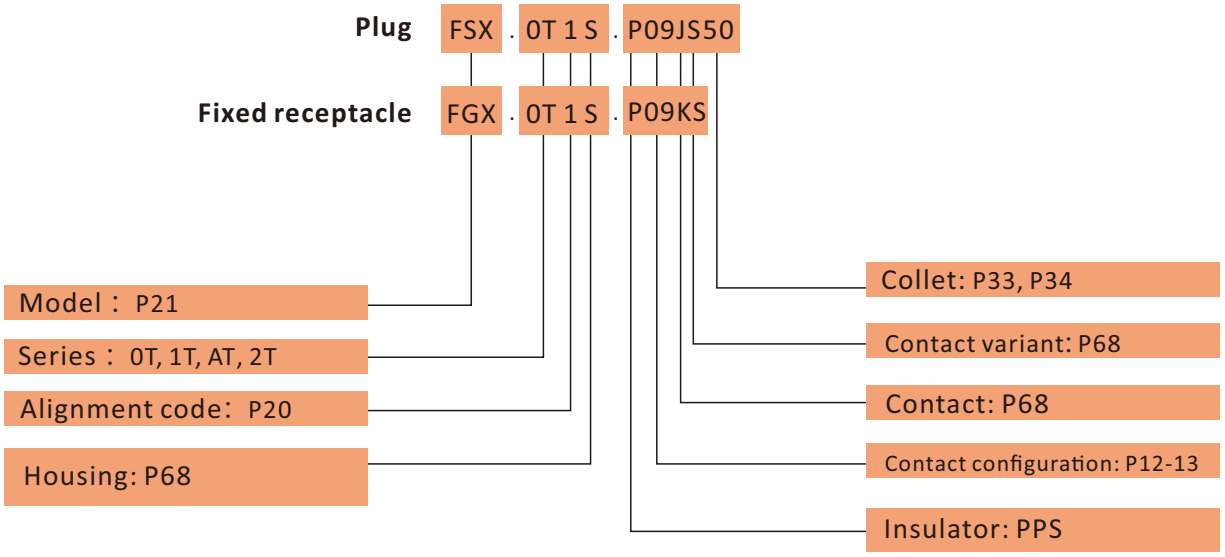
Part numbering system



Part numbering system

Plug

RM-FSX-0T1S-P12JS50Z straight plug, 0T series, code 1, multipole 12 contacts, outshell in natural chrome -plated brass, PPS insulator, male solder contacts, collet for 4.2-5.2mm diameter cable, IP68

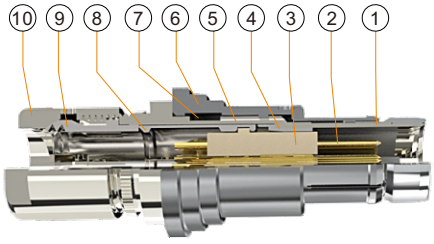
Fixed receptacle

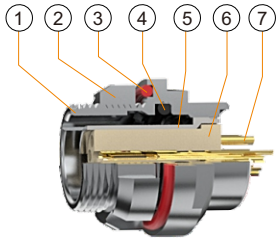
RM-FGX-0T2C-P08KS fixed receptacle, 0T series, code 1, mulitpole 8pin, outer shell in natural chrome-plated brass, PPS insulator, female PCB contacts, IP68

Part Section Showing Internal Components

Straight plug

① latch sleeve
② male contact
③ insulator
④ fixed spacer
⑤ inner shell
⑥ outer shell
⑦ gasket
⑧ insulator fixed space
⑨ collet
⑩ collet nut





Fixed receptacle

① outer shell
② hexagonal nut
③ outer o-ring
④ inside o-ring
⑤ fixed spance
⑥ insulator
⑦ female contact

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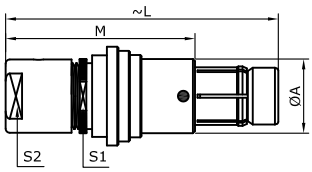
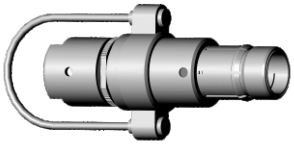
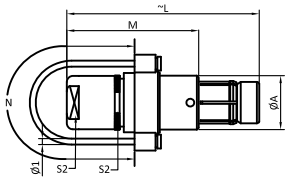
FSX Cable Mount Plug,



Reference		Dimensions(mm)				
Model	Series	A	L	M	S1	S2
FSX	0T	9	33	23	8	8
FSX	1T	12	37	26	11	12
FSX	AT	12.3	40	30	11.5	12
FSX	2T	15	43	31	13	13

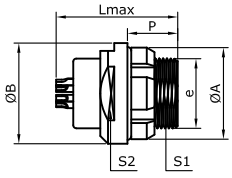


FS7 Cable Mount Plug, with layard

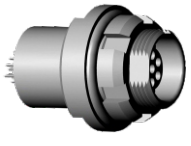


Reference		Dimensions(mm)							
Model	Series	A	L	M	N	d max shielded clamp	d max sealed clamp	S1	S2
FS7	0T	9	33	23	60	4.7	4.3	8	8
FS7	1T	12	37	26	80	6.7	6.2	11	12
FS7	AT	12.3	40	30	80	7.2	6.7	11.5	12
FS7	2T	15	43	31	100	8.7	8.7	13	13

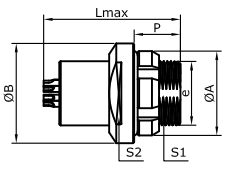
FGX Panel Mount Receptacle, Sealed



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

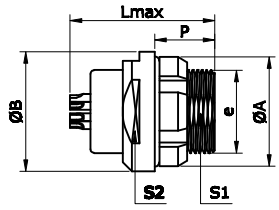


FG8 Panel Mount Receptacle, long type



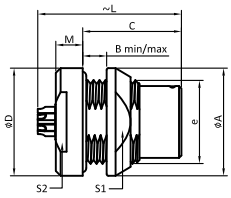
Reference		Dimensions(mm)						
Model	Series	A	B	e	L	P	S1	S2
FG8	0T	12	14	M9*0.5	19.2	6.5	8.2	11
FG8	1T	18	18	M14*1.0	24.8	8	12	15
FG8	AT	18	19	M14*1.0	23.1	7	12	15
FG8	2T	20.8	21	M14*1.0	24.2	8	14.2	16

FGD Panel Mount Receptacle, Sealed



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

FGK Panel Mount Receptacle, Sealed



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

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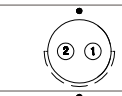
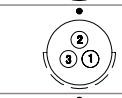
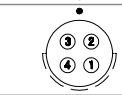
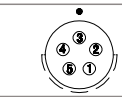
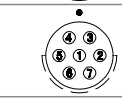
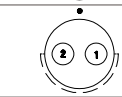
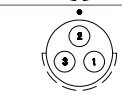
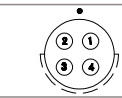
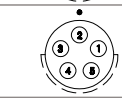
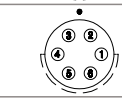
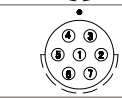
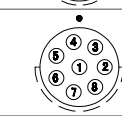
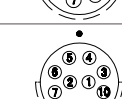
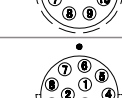
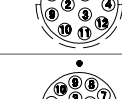
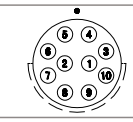
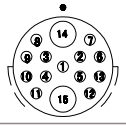
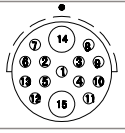
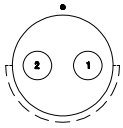
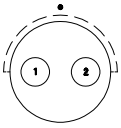
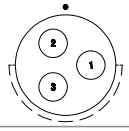
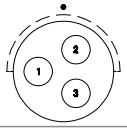
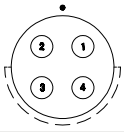
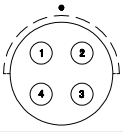
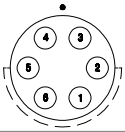
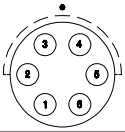
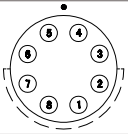
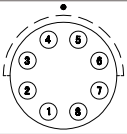
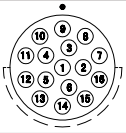
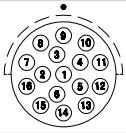
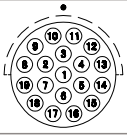
Multipole layout

		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
0T		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
		P07	7	0.5	●	●	●	0.80	0.70	2.5
		P09	9	0.5	●	●	●	0.60	0.50	2.0
1T		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	1.2	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
		P12	12	0.5	●	●	●	0.80	1.2	2.0
		P16	16	0.5	●	●	●	0.80	1.25	1.5

● First choice alternative
○ Special order alterative

Multipole layout

			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
AT			P10	10	0.7	●	●	●	1.40	1.05	4.5
			P12	12	0.5	●	●	●	1.40	1.50	4.2
			P15	2 13	1.3 0.5	● ●	● ●	● ●	1.50 1.20	1.35 0.90	12 2.5
			P19	19	0.5	●	●	●	1.20	0.90	2.5
2T			P02	2	1.6	●	○	○	1.80	2.20	20.0
			P03	3	1.6	●	○	○	1.60	2.0	18.0
			P04	4	1.3	●	○	○	1.80	2.20	12.0
			P06	6	0.9	●	○	○	1.70	2.0	6.50
			P08	8	0.9	●	○	○	1.50	1.50	6.20
			P16	16	0.7	●	○	○	1.0	1.50	4.0
			P19	19	0.7	●	○	○	0.80	1.20	3.50

● First choice alternative
○ Special order alterative

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