

Push-Pull Circular Connectors

PRC03 series / PRC04 series

- PRC03 series Push-Pull Locking connectors are uniquely designed in quick and steady push-pull practice by Tajimi and have been marketed successfully for measurement and industrial. PRC03 series connectors are registered as a standard model of Japanese Non-destructive Testing Association. PRC04 series are lightweight connectors, adopting aluminum alloy.

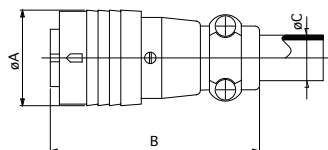
Specifications

Series	PRC03	PRC04
Connections	Push-Pull	
Termination	Solder	
Temperature and Humidity	-25°C to +85°C 85% Max.	
Number of Pins	2, 3, 4, 5, 7	8, 12, 14, 19, 21, 37
Shell Material / Finish	Zinc Alloy / Nickel	Aluminum Alloy / Anodic Oxidation
Contact Material / Finish	Copper Alloy / Gold over Nickel	

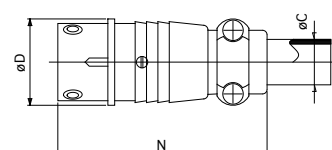
* See next page as for Electrical Specifications.



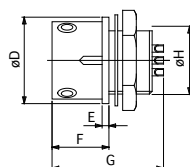
Plug
PRC03-12A10-3AM10.5



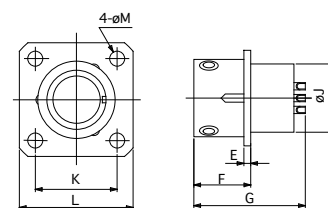
Jack
PRC03-32A10-3AF10.5



Bulkhead Mount Receptacle
PRC03-23A10-3AF



Flange Mount Receptacle
PRC03-21A10-3AF



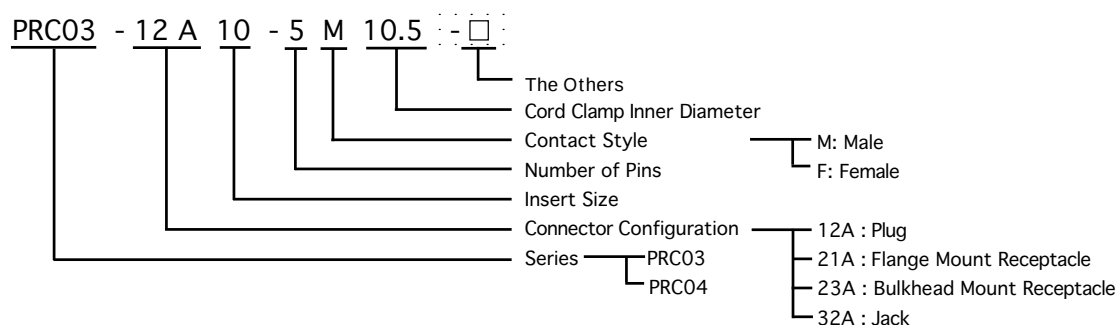
Configuration

Insert Size	Series	No. of Pins	Dimensions (mm)													
			A	B	C	D	E	F	G	H	J	K	L	M	N	
10	PRC03	2, 3, 4, 5, 7	21.0	46.0	10.5	19.0	1.5	12.5	26.5	M15 P=1	15.0	16.0	21.0	2.9	46.0	
16	PRC04	8, 14	28.0	55.5	12.5	25.0	2.0	13.5	25.5	21.0 P=1	21.0	21.5	28.0	3.4	50.0	
20		12, 19	34.0	63.5	14.5	32.0	2.5	14.0	26.0	26.0 P=1	26.0	26.0	33.0	3.9	58.5	
26		21, 37	41.0	71.0	18.0	38.0	2.5	14.0	26.0	32.0 P=1	32.0	31.0	38.0	3.9	65.5	

Push-Pull Circular Connectors Specifications

PRC03 series / PRC04 series

Part Numbering System



Electrical Specifications

Series	PRC03					PRC04					
Insert Size	10					16		20		26	
Number of Contacts	2	3	4	5	7	8	14	12	19	21	37
Withstanding Voltage (V RMS)	1800	1000	1200	1000	1000	1200	1000	1200	1200	1200	1200
Voltage Rating (V RMS)	600	350	400	350	350	400	350	400	400	400	400
Current Rating (A)	10	10	5	5	5	10	5	10	4	10	3
Applicable Wire Size	AWG#16 (1.4mm²Max.)		AWG#20 (0.5mm²Max.)			AWG- #16	AWG- #20	AWG- #16	AWG- #20	AWG- #16	AWG- #20
Contact Resistance	5mΩ Max.										
Insulation Resistance	DC500V 1000MΩ min.										

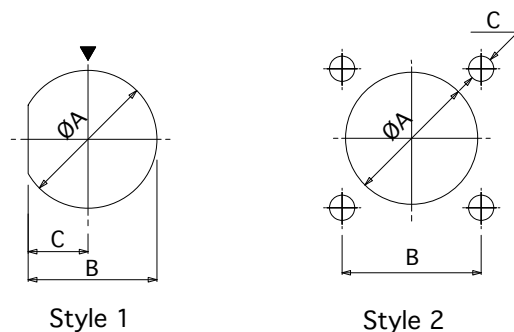
* PRC03 series is only available in Insert Size 10, PRC04 series is only available Insert Size 16, 20 and 26.

Insert Size & Pin Arrangement

Insert 10	Insert 16	Insert 20	Insert 26
			The character '⊙' indicates current rating 10A, and '○' indicates 5A.

* Drawings above are ones viewed from the rear side of pin insulators. (pin contacts)

Mounting Hole Dimensions



Bulkhead Mount Receptacle

Insert Size	Style	φ A	B	C
10 : PRC03	1	15.2	14.2	6.6
16 : PRC04		21.2	20.2	9.6
20 : PRC04		26.2	25.2	12.1
26 : PRC04		32.2	31.2	15.1

Flange Mount Receptacle

Insert Size	Style	φ A	B	C
10 : PRC03	2	15.2	16.0	φ 2.9
16 : PRC04		21.2	21.5	φ 3.4
20 : PRC04		26.2	26.0	φ 3.9
26 : PRC04		32.2	31.0	φ 3.9

Push-Pull Circular Connectors

PRC05 series / PRC07 series

- PRC05 series are miniature size in comparison with PRC03, PRC04 series, also they are our original Push-Pull Locking connectors for quick and easy maing.
- PRC07 series based on PRC05 series feature high density and miniaturization.

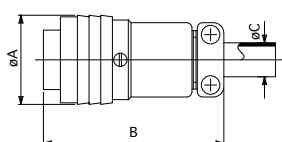
Specifications

Connections	Push-Pull Lock
Termination	Solder
Temperature and Humidity	-25°C to +85°C 85% Max.
Number of Pins	2, 3, 5, 6, 8, 12
Shell Material / Finish	Brass / Nickel
Contact Material / Finish	Copper Alloy / Gold over Nickel

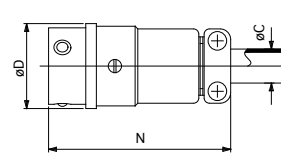
* See [page 28](#) as for Electrical Specifications.



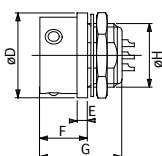
Plug
PRC05-P5F



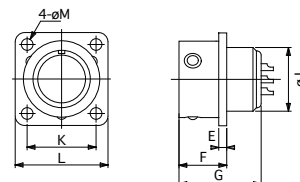
Jack
PRC05-J5M



Bulkhead Mount Receptacle
PRC05-R5M



Flange Mount Receptacle
PRC05-RB5M



Configuration

Insert Size	No. of Pins	Dimensions (mm)													
		A	B	C	D	E	F	G	H	J	K	L	M	N	
6	2, 3, 5	13.5	32.0	5.2	13.0	2.0	9.5	18.0	9.0 P=0.5	9.0	11.5	16.0	2.2	32.5	
9	6, 8	16.7	34.0	6.2	16.0	2.0	9.5	18.0	12.0 P=0.8	12.0	13.5	18.0	2.2	34.5	
12	12	21.0	39.0	11.0	20.0	2.0	9.5	18.0	M16 P=1.0	16.0	17.0	22.5	2.8	39.0	

Miniature Circular Connectors

R03 series / R27 series

- R03 series are small circular connectors with screw on system. They are subminiature in size and are suited for a variety of electronic equipment.
- A wide variety of molded cable assemblies are available for your requirement.
- R27 series based on R03 series feature high density and miniaturization.

Specifications

Series	R05	R27
Connections	Screw Coupling	
Termination	Solder	
Temperature and Humidity	-25°C to +85°C 85% Max.	
Number of Pins	2, 3, 5, 6, 8, 12	8, 12
Shell Material / Finish	Brass and Zinc Alloy / Nickel	
Contact Material / Finish	Copper Alloy / Gold over Nickel	
Corrosion Resistance	Salt Spray 5% 48H	

* See [page 28](#) as for Electrical Specifications.



Plug / Normal Clamp Type
R03-PB5M



Jack / Normal Clamp Type
R03-JB5F



Flange Mount Receptacle
R03-RB5F



Plug / Screw Clamp Type
R03-P5M



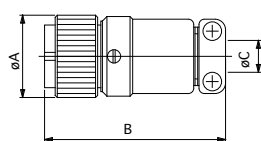
Jack / Screw Clamp Type
R03-J5F



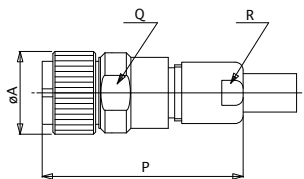
Bulkhead Mount Receptacle
R03-R5F



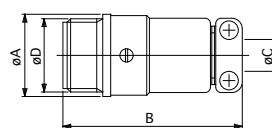
Cable Assemblies



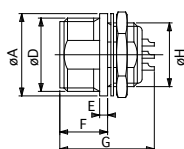
Plug / Normal Clamp Type



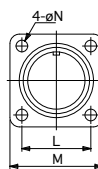
Plug / Screw Clamp Type



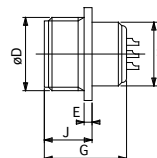
Jack / Normal Clamp Type



Bulkhead Mount Receptacle



Flange Mount Receptacle



Configuration

Series	Insert size	No. of Pins	Dimensions (mm)																
			A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	
R03	6	2, 3, 5	12.0	32.0	5.2	10.5 P=0.75	1.5	9.0	18.0	9.0 P=0.5	9.5	10.5	10.5	15.0	2.2	35.0	10.5	9.5	
	9	6, 8	15.5	34.0	6.2	M14 P=1	1.5	9.0	18.0	12.0 P=0.8	9.5	10.5	13.0	17.5	2.2	37.0	13.5	10.5	
	12	12	20.0	39.0	10.5	M18 P=1	1.5	9.0	18.0	M16 P=1	9.5	10.5	17.0	22.5	2.8	37.0	13.5	10.5	
R27	6	8	12.0	32.0	5.2	10.5 P=0.75	1.5	9.0	18.0	9.0 P=0.5	9.5	10.5	10.5	15.0	2.2	35.0	10.5	9.5	
	9	12	15.5	34.0	6.2	M14 P=1	1.5	9.0	18.0	12.0 P=0.8	9.5	10.5	13.0	17.5	2.2	37.0	13.5	10.5	