

Part number

PR-RC3TB-43M-C03	4.3-10 male connector for 1/2" flexible cable
	According to IEC61169-54

Part list

NO.	Description	Material	Plating	Photo for reference
1	Inner conductor	Brass	Ag	
2	Insulator	PTFE		
3	Body	Brass	Tri-alloy	
4	Nut	Brass	Nickel	
5	Washer	Brass	Nickel	
6	Gasket	Silicone rubber		

Document

Document	MA_RC3TB-1/2 installation instruction
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Electrical data

Characteristics impedance	50Ω
Frequency	DC to 6GHz
Insulation resistance	≥5000MΩ
Center contact resistance	1.0mΩ
Outer contact resistance	1.0mΩ
Dielectric withstanding voltage	2500V rms
Operating voltage	1000V rms
Insertion loss	$0.05 \cdot \sqrt{F} \text{ GHz dB}$
Return loss	≤-30dB @ DC-1.0GHz
	≤-28dB @ 1.0-2.2GHz
	≤-26dB @ 2.2-2.7GHz
	≤-24dB @ 2.7-3.8GHz
	≤-22dB @ 3.8-6.0GHz
DTF	≤-35dB @DC-1.0GHz
	≤-32dB @1.0-2.7GHz
	≤-28dB @2.7-3.8GHz
	≤-26dB @3.8-6.0GHz

Intermodulation (3 rd Order)	≤-160dBc, 2x43dBm
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Mechanical data

Interface	4.3-10 male
Suitable cable	1/2" flexible cable
Mating cycles	≥100 times
Coupling nut retention	≥450N
Connector torque proof recommend	5 to 8 N.m
Center contact captivation, axial	≥30N
radial	≥5 Ncm

Environment

Working temperature	-45°C to +85°C
Installation Temperature	-40°C to +50°C
Anti-UV	IEC 60068-2-5
Salt spray test Standard	48hr (IEC 60068-2-11)
Mechanical Shock Test Method	MIL-STD-202, Method 213, Test Condition D
Vibration Test Method	MIL-STD-202, Meth. 204, Cond. A
IP protection	IP68, 24h @1m, 20°C
RoHS	Compliant

Notice

- 1, The connection should be covered with addition weatherproof kits for long time duration.
- 2, Connection molding shape may be changed during the product life-time due to the manufacture skill upgrade.

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