

# PR-RCP-43M-C03

## 4.3-10 male connector for 1/2" coaxial cable

**PROSE**

- 50Ω impedance
- 4.3-10 male interface
- Frequency 12 GHz
- High performance at RF return-loss and PIM
- Field installation
- Heavy duty, sturdy and durable

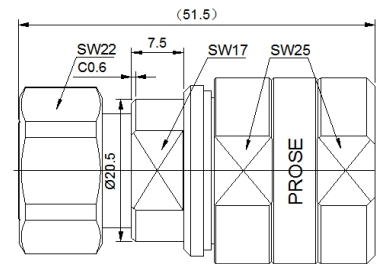


Photo for reference

### Part number

|                |                                              |
|----------------|----------------------------------------------|
| PR-RCP-43M-C03 | 4.3-10 male connector for 1/2" coaxial cable |
|                | According to IEC61169-54                     |

### Part list

| NO. | Description     | Material        | Plating        |
|-----|-----------------|-----------------|----------------|
| 1   | Inner conductor | Brass           | Ag             |
| 2   | Outer conductor | Brass           | Copper-tin-zin |
| 3   | Body            | Brass           | Ni             |
| 4   | Nut             | Brass           | Ni             |
| 5   | Insulator       | PTFE            |                |
| 6   | O-ring          | Silicone rubber |                |

### Document

|          |                                     |
|----------|-------------------------------------|
| Document | MA_RCP-1/2 installation instruction |
|----------|-------------------------------------|

### Electrical data

|                                 |                     |
|---------------------------------|---------------------|
| Characteristics impedance       | 50Ω                 |
| Insulation resistance           | ≥5000MΩ             |
| Center contact resistance       | 1.0mΩ               |
| Outer contact resistance        | 1.0mΩ               |
| Dielectric withstanding voltage | 2500V rms           |
| Operating voltage               | 500V rms            |
| Insertion loss                  | 0.05*√F 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                                              | $\leq -35\text{dB @DC-1.0GHz}$  |
|                                                  | $\leq -32\text{dB @1.0-2.7GHz}$ |
|                                                  | $\leq -28\text{dB @2.7-3.8GHz}$ |
|                                                  | $\leq -26\text{dB @3.8-6.0GHz}$ |
| Intermodulation (3 <sup>rd</sup> Order), 2x43dBm | $\leq -160\text{dBc}$           |

## Mechanical data

|                                  |                                                                 |
|----------------------------------|-----------------------------------------------------------------|
| Interface                        | 4.3-10 male                                                     |
| Suitable cable                   | 1/2" series, PFC50E-12/ SL 012R PE/ LDF4-50A/ LCF12 and similar |
| Mating cycles                    | $\geq 100$ times                                                |
| Coupling nut retention           | $\geq 450\text{N}$                                              |
| Connector torque proof recommend | 5 to 8 N.m                                                      |

## Environment

|                     |                     |
|---------------------|---------------------|
| Working temperature | -45°C to +85°C      |
| Weather standard    | IEC 60068 40/085/21 |
| Thermal shock       | IEC 60068-2-14-Na   |
| Vibration           | IEC 60068-2-6-Fc    |
| Shock               | IEC 60068-2-27      |
| IP protection       | IP68, mated pair    |
| 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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