

# PR-RCP1-43M-C06L

4.3-10 male connector for 1 1/4" low loss coaxial cable

**PROSE**

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

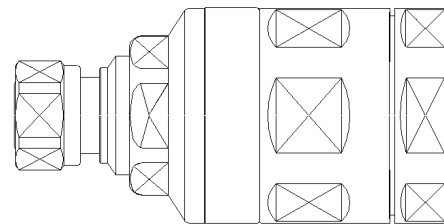


Photo for reference

## Part number

|                  |                                                         |
|------------------|---------------------------------------------------------|
| PR-RCP1-43M-C06L | 4.3-10 male connector for 1 1/4" low loss coaxial cable |
|                  | According to IEC61169-54                                |

## Part list

| NO. | Description     | Material        | Plating   |
|-----|-----------------|-----------------|-----------|
| 1   | Inner conductor | Brass           | Ag        |
| 2   | Outer conductor | Brass           | Tri-alloy |
| 3   | Body            | Brass           | Tri-alloy |
| 4   | Nut             | Brass           | Tri-alloy |
| 5   | Insulator       | TPX             |           |
| 6   | O-ring          | Silicone rubber |           |

## Document

|          |                                        |
|----------|----------------------------------------|
| Document | MA_RCP1-1 1/4 installation instruction |
|----------|----------------------------------------|

## Electrical data

|                                 |                            |
|---------------------------------|----------------------------|
| Characteristics impedance       | 50 $\Omega$                |
| Insulation resistance           | $\geq 5G\Omega$            |
| Center contact resistance       | 1.0m $\Omega$              |
| Outer contact resistance        | 1.0m $\Omega$              |
| Dielectric withstanding voltage | 2500V rms                  |
| Operating voltage               | 500V rms                   |
| Insertion loss                  | 0.05* $\sqrt{F}$ GHz dB    |
| Return loss                     | $\leq -30$ dB @ DC-1.0GHz  |
|                                 | $\leq -28$ dB @ 1.0-2.2GHz |
|                                 | $\leq -26$ dB @ 2.2-2.7GHz |

|                                      |                      |
|--------------------------------------|----------------------|
|                                      | ≤ -24dB @ 2.7-3.8GHz |
| DTF                                  | ≤ -35dB @DC-1.0GHz   |
|                                      | ≤ -32dB @1.0-2.7GHz  |
|                                      | ≤ -28dB @2.7-3.8GHz  |
| Intermodulation (3rd Order), 2x43dBm | ≤ -160dBc            |

## Mechanical data

|                                  |                                                                      |
|----------------------------------|----------------------------------------------------------------------|
| Interface                        | 4.3-10 male                                                          |
| Suitable cable                   | 1 1/4" series, PLC50E-114/ SL 114R L PE/ AVA6-50/ LCF114 and similar |
| Mating cycles                    | ≥ 100 times                                                          |
| Coupling nut retention           | ≥ 450N                                                               |
| 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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