

# PR-RC3TB-DM-C03

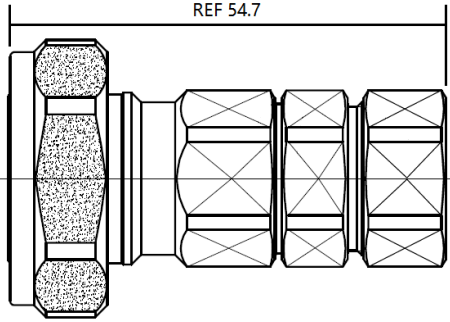
DIN male connector for 1/2" flexible cable

**PROSE**

## Part number

|                 |                                            |
|-----------------|--------------------------------------------|
| PR-RC3TB-DM-C03 | DIN male connector for 1/2" flexible cable |
|                 | According to IEC61169-4                    |

## 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 |
|----------|---------------------------------------|

## Electrical data

|                                 |                                      |
|---------------------------------|--------------------------------------|
| Characteristics impedance       | 50Ω                                  |
| Frequency                       | DC to 6GHz                           |
| Insulation resistance           | ≥5000MΩ                              |
| Center contact resistance       | 0.4mΩ                                |
| Outer contact resistance        | 0.2mΩ                                |
| Dielectric withstanding voltage | 4000V 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 <sup>rd</sup> Order) | ≤-160dBc, 2x43dBm |
|-----------------------------------------|-------------------|

## Mechanical data

|                                   |                     |
|-----------------------------------|---------------------|
| Interface                         | DIN male            |
| Suitable cable                    | 1/2" flexible cable |
| Mating cycles                     | ≥500 times          |
| Coupling nut retention            | ≥450N               |
| Connector torque proof recommend  | 25 to 30 N.m        |
| Center contact captivation, axial | ≥200N               |
| radial                            | ≥2 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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