N Female Connector for 1/4" Coaxial Cable, Straight Shrinking Sleeve sealing



Product Description

Radio Frequency Systems line of high performance coaxial cable connectors are designed specifically to provide the highest quality connector-cable interface while simplifying and speeding up the attachment of connectors to CELLFLEX® coaxial cables. RFS connectors are fully tested for mechanical and electrical compliance specifications. They are available in all popular cable sizes in a variety of mating interfaces. The N connector is one of the most common RF connector types. N type connectors from RFS will be delivered with a non-slotted outer conductor contact sleeve and a special gasket. Due to a special design of the coupling nut (without spring ring) N connectors can be tightened with increased torque. This increases the contact pressure.

Features/Benefits

- Waterproof The only totally waterproof connector in the industry. Compliant with IP68 water immersion testing. Press fit contact/bead O-ring keeps out moisture and prevents vacuum build-up and air exchange due to temperature swings.
- Solderless Captivated spring finger contacts permit quick, easy and precise solderless installation utilizing only basic hand tools. Avoids the potential high impedance risk associated with traditional soldering.
- Self Flaring Self flaring design reduces installation time and thus, saves on labor costs.
- Corrosion-Proof Plated Contacts Featured even on standard connectors. Provide improved contact resistance and lower intermodulation.
- Outstanding Electrical Performance Metal to Metal contact between cable and connector no plastic parts used. Secure connection highly resistant to pull-off or twist-off provides long-term mechanical integrity. Resistant to intermodulation after temperature cycling.
- Easy to Install No special tools needed. Only basic hand tools required. No additional costs to the installer.

| Technical Specifications | | |
|----------------------------|--|--|
| Transmission Line Type | Coaxial Cable | |
| Cable Size | 1/4" | |
| Cable Type | Foam Dielectric, Superflexible | |
| Model Series | SCF14-50 Series | |
| Connector Interface | N | |
| Nominal Impedance, ohms | 50 | |
| Connector Type | Straight | |
| Sealing Method | Shrinking Sleeve | |
| Gender | Female | |
| Plating Outer/Inner | Silver/Silver | |
| Length, mm (in) | 28 (1.1) | |
| Outer Diameter, mm (in) | 16 (0.6) | |
| Weight, kg (lb) | 0.04 (0.09) | |
| Inner Contact Attachment | Basket | |
| Outer Contact Attachment | Spring Finger | |
| Maximum Frequency, GHz | 6.0 | |
| VSWR (Return Loss, dB) | 0 < f = 1.0 GHz: 1.03 (36.6) 1.0 < f = 2.0 GHz: 1.06 (30.7) 2.0 < f = 2.7 GHz: 1.08 (28.3) 2.7 < f = 3.7 GHz: 1.12 (24.9) | |
| Wrench size front, mm (in) | 14 (9/16) | |
| Wrench size rear, mm (in) | 11 (7/16) | |
| Trimming Tool | TRIM-Series-A | |
| Waterproof Level | IP68 | |

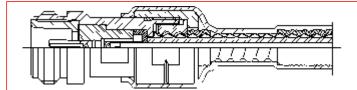
Notes

Other Documentation

Installation Instruction: M30493-f.pdf

RFS

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All information contained in the present datasheet is subject to confirmation at time of ordering