



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

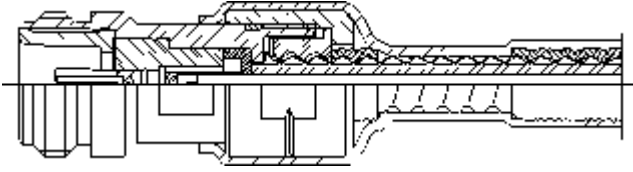
Notes

Other Documentation

Installation Instruction: [M30493-f.pdf](#)



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