



## N Male Connector for 3/8" Coaxial Cable, RAPID FIT™ Right angle O-ring sealing

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 Features

#### GENERAL SPECIFICATIONS

Transmission Line Type		Coaxial Cable
Cable Size		3/8"
Cable Type		Foam Dielectric Superflexible
Model Series		SCF38-50 Series
Connector Interface		N
Connector Type		Right Angle
Sealing Method		Shrinking Sleeve
Gender		Male

#### ELECTRICAL SPECIFICATIONS

Nominal Impedance	Ohm	50
Maximum Frequency	GHz	3.7
VSWR, Return Loss	VSWR (dB)	0 < f ≤ 1.0 GHz: 1.02 (40.0) 1.0 < f ≤ 2.2 GHz: 1.04 (34.1) 2.2 < f ≤ 2.7 GHz: 1.06 (30.7) 2.7 < f ≤ 3.7 GHz: 1.13 (24.3)

#### MECHANICAL SPECIFICATIONS

Plating Outer/Inner		Silver/Gold
Length	mm (in)	41.8 (1.6)
Outer Diameter	mm (in)	31.8 (1.2)
Weight	kg (lb)	0.2 (0.44)
Inner Contact Attachment		Basket
Outer Contact Attachment		Crush Flare

#### ACCESSORIES

Wrench size front	mm (in)	17 (11/16)
Wrench size rear	mm (in)	19 (3/4)
Trimming Tool		TRIM-Series-A

#### TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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### External Document Links

### Notes