



## N Male Connector for 1/2" Coaxial Cable, Straight Threaded Gasket 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	1/2"
Cable Type	Foam Dielectric, Superflexible, Radiating
Model Series	SCF12-50 Series
Connector Interface	N
Connector Type	Straight
Sealing Method	Threaded Gasket
Gender	Male
Plating Outer/Inner	Silver/Silver
Length, mm (in)	60.0 (2.4)
Outer Diameter, mm (in)	23.8 (0.9)
Weight, kg (lb)	0.10 (0.2)
Inner Contact Attachment	Basket
Outer Contact Attachment	Spring Finger
3rd Order IM Product @ 2x20 Watts, dBc	<-156
Maximum Frequency, GHz	3.7
VSWR (Return Loss) for $0 < f \leq 1.0\text{GHz}$	1.02:1 (40.0 dB)
VSWR (Return Loss) for $1.0 < f \leq 2.7\text{GHz}$	1.03:1 (36.6 dB)
VSWR (Return Loss) for $2.7 < f \leq 3.7\text{GHz}$	1.08:1 (28.3 dB)
Wrench size front, mm (in)	17 (11/16)
Wrench size rear, mm (in)	20 (13/16)
Trimming Tool	TRIM-Series-A
Waterproof Level	IP68

### Notes

### Other Documentation



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Installation Instruction: [M30762c.pdf](#)

