



# N Male Connector for 1/2" Coaxial SuperFlexible Cable, OMNI FIT™ standard

OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminum) cables. They are designed specifically to provide the highest quality connector-cable interface while simplifying and speeding up connector attachment. All RFS connectors are fully tested for mechanical and electrical compliance to industry specifications. The N connector is one of the most common RF connector types and meets all requirements even under the most severe environmental conditions.



OMNI FIT™ Standard Connectors

**FEATURES / BENEFITS**

- ➔ Cost effective two-piece design for safe and easy installation
- ➔ Robust mechanical design for low and consistent intermodulation performance i.e. keeps the mobile network performance up, reduces the number of dropped calls and avoids revenue losses
- ➔ Standard electrical performance for consistent and repeatable VSWR i.e. ensure network system performance
- ➔ Waterproof to IP 68 i.e. no downtime risk, secures revenue
- ➔ RoHS (EU) compliant i.e. can be used on a global basis

**Technical Features**

**GENERAL SPECIFICATIONS**

Transmission Line Type		Coaxial Cable
Cable Size		1/2"
Cable Type		Foam Dielectric
Model Series		SCF12-50 Series
Connector Interface		N
Connector Type		OMNI FIT™ Standard
Sealing Method		O-ring
Gender		Male

**ELECTRICAL SPECIFICATIONS**

Nominal Impedance	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-159 typical
Maximum Frequency	GHz	3.7
VSWR, Return Loss	VSWR (dB)	0 < f ≤ 1.0 GHz: 1.030 (36.6) 1.0 < f ≤ 2.7 GHz: 1.040 (34.1) 2.7 < f ≤ 3.7 GHz: 1.080 (28.3)

**MECHANICAL SPECIFICATIONS**

Plating Outer/Inner		Trimetal/Silver
Length	mm (in)	51.3 (2.02)
Outer Diameter	mm (in)	19.8 (0.78)
Weight	kg (lb)	0.07 (0.15)
Inner Contact Attachment		Basket
Outer Contact Attachment		Rigidity impaction

**ACCESSORIES**

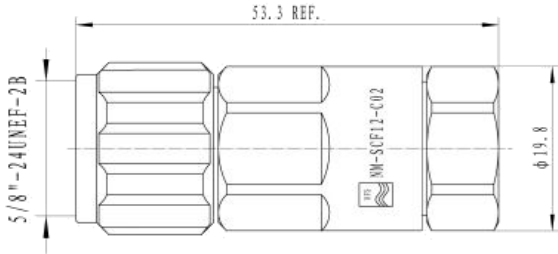
Wrench size front	mm (in)	18 (7/10)
Wrench size rear	mm (in)	18 (7/10)

**TESTING AND ENVIRONMENTAL**

Waterproof Level		IP68
------------------	--	------



## N Male Connector for 1/2" Coaxial SuperFlexible Cable, OMNI FIT™ standard



NM-SCF12-C02\_DRW.png

### External Document Links

Installation instruction

### Notes