

## N Female Connector for 1/2" Coaxial SuperFlexibleCable, OMNI FIT™ standard

OMNI FIT<sup>™</sup> 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 Technologies connectors are fully tested for mechanical and electrical compliance to industry specifications.

#### **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



NF-SCF12-C03

## **Technical features**

#### **GENERAL SPECIFICATIONS**

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

#### **ELECTRICAL SPECIFICATIONS**

Nominal Impedance, ohms	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-157 ; typical -160
Maximum Frequency	GHz	6.0
VSWR, Return Loss	VSWR (dB)	0 < $f \le 1.0$ GHz: 1.03 (36.6) 1.0 < $f \le 2.7$ GHz: 1.04 (34.1) 2.7 < $f \le 3.7$ GHz: 1.08 (28.3) 3.7 < $f \le 5.0$ GHz: 1.15 (23.1) 5.0 < $f \le 6.0$ GHz: 1.25 (19.1)

## MECHANICAL SPECIFICATIONS

Plating Outer/Inner		Trimetal/Silver
Length	mm (in)	50.1 (2)
Outer Diameter	mm (in)	19.8 (0.78)
Inner Contact Attachment		Basket
Outer Contact Attachment		Rigidity impaction

NF-SCF12-C03 REV : B REV DATE : 07 Oct 2018 www.rfstechnologies.com



# N Female Connector for 1/2" Coaxial SuperFlexibleCable, OMNI FIT™ standard

# **ACCESSORIES** Wrench size front mm (in) 16 (0.63) Wrench size rear 18 (0.71) mm (in) **Trimming Tool** TRIM-SET-S12-C02 **TESTING AND ENVIRONMENTAL Waterproof Level** IP68 50.1 REF \$16.0 Marker \$18.0 NF-SCF12-C03 Outline drawing **External Document Links** Notes

Installation Instruction

www.rfstechnologies.com REV:B NF-SCF12-C03 REV DATE: 07 Oct 2018