

## N Female Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Straight, threaded gasket and 360° compression sealing

OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminium) 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 meets all technical requirements and covers high frequencies as well as legacy applications. Sealing against outer conductor and jacket by means of threaded gasket and 360° compression fit. Multifunctional, self-lubricating HighTech polymer assembly locks on cable corrugation, avoids electrochemical potential differences and compression-fits to the jacket.;



OMNI FIT™ Premium Connectors

### FEATURES / BENEFITS

- ⊕ Ultra high PIM performance i.e. reduced interference leading to high customer satisfaction
- ⊕ Two-piece design i.e. visual inspection of interlocking leads to improved installation security
- ⊕ OMNI FIT™ concept i.e. streamlined order management and reduced stock level
- ⊕ Watertight sealing in mated and unmated condition, i.e. reduced efforts during installation and improved security during operation
- ⊕ Unique NiTin plating i.e. extreme resistance against corrosion even under hardest climatic and environmental circumstances
- ⊕ Multi-thread (Tristart) design i.e. simplified and accelerated tightening process
- ⊕ RoHS (EU) and CRoHS (China) 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™ PREMIUM Straight
Sealing Method		Threaded Gasket + 360° Compression
Gender		Female

#### ELECTRICAL SPECIFICATIONS

Nominal Impedance	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-156 ; typical -162
Maximum Frequency	GHz	3.7
VSWR, Return Loss	VSWR (dB)	0 < f ≤ 1.0 GHz: 1.020 (40.0) 1.0 < f ≤ 2.7 GHz: 1.030 (36.6) 2.7 < f ≤ 3.7 GHz: 1.080 (28.3)

#### MECHANICAL SPECIFICATIONS

Plating Outer/Inner		NiTin/Silver
Length	mm (in)	52.2 (2.1)
Outer Diameter	mm (in)	24.8 (1)
Weight	kg (lb)	0.09 (0.2)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		360° clamping

#### ACCESSORIES

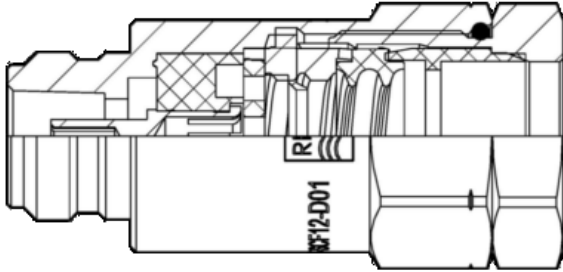
Wrench size front	mm (in)	22 (7/8)
Wrench size rear	mm (in)	22 (7/8)
Trimming Tool		TRIM-12-S06 TRIM-SCF12-D01-A

#### TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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**External Document Links**

**Notes**

Installation Instruction