

#### PRODUCT DATASHEET

## 716M-SCF12-E01

7-16 DIN Male Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Straight, O-Ring 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 Technologies connectors are fully tested for mechanical and electrical compliance to industry specifications.

The 7-16 connector is the most rugged RF connection meeting all requirements even under the most severe environmental conditions. Sealing against outer conductor and jacket by means of oring and 360° compression fit.

#### 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
- Tri metal alloy 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 Superflexible
Model Series	SCF12-50 Series
Connector Interface	7-16 DIN
Connector Type	OMNI FIT™ PREMIUM Straight
Sealing Method	O-ring + 360° Compression
Gender	Male

## **ELECTRICAL SPECIFICATIONS**

Nominal Impedance, ohms	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-163 ; typical -167
Maximum Frequency	GHz	6
VSWR, Return Loss	VSWR (dB)	0 < $f \le 1.0$ GHz: $1.02$ (40) 1.0 < $f \le 2.2$ GHz: $1.03$ (37) 2.2 < $f \le 2.7$ GHz: $1.03$ (36) 2.7 < $f \le 3.8$ GHz: $1.06$ (31) 3.8 < $f \le 5.0$ GHz: $1.11$ (26) 5.0 < $f \le 6.0$ GHz: $1.15$ (23)

716M-SCF12-E01 REV : B REV DATE : 08 Oct 2021 www.rfstechnologies.com



## PRODUCT DATASHEET

# 716M-SCF12-E01

7-16 DIN Male Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, Straight, O-Ring and 360° compression sealing

## **MECHANICAL SPECIFICATIONS**

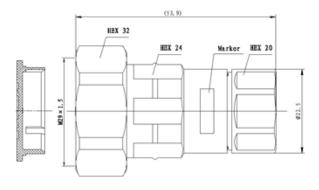
Plating Outer/Inner		Tri metal alloy / Silver
Length	mm (in)	53.9 (2.12)
Outer Diameter	mm (in)	22.5 (0.89)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		360° clamping

## **ACCESSORIES**

Wrench size front	mm (in)	32 / 24
Wrench size rear	mm (in)	20
Trimming Tool		TRIM-12-S06 TRIM-SCF12-D01-A

## **TESTING AND ENVIRONMENTAL**

Waterproof Level	IP68
Water proof Level	11 00



External Document Links Installation Instruction Notes

716M-SCF12-E01 REV: B REV DATE: 08 Oct 2021 www.rfstechnologies.com