



## 7-16 DIN Female Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium,

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 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 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

## Technical Features

### GENERAL SPECIFICATIONS

Transmission Line Type		Coaxial Cable
Cable Size		1/2"
Cable Type		Foam Dielectric
Model Series		SCF12-50 Series
Connector Interface		7-16 DIN
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	-163 ; typical -167
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: 1.060 (30.7)

### MECHANICAL SPECIFICATIONS

Plating Outer/Inner		NiTin/Silver
Length	mm (in)	486 (1.9)
Outer Diameter	mm (in)	28.8 (1.1)
Weight	kg (lb)	0.11 (0.24)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		360° clamping

### ACCESSORIES

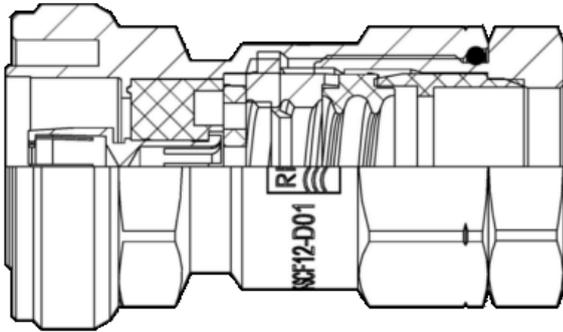
Wrench size front	mm (in)	22 (7/8)
Wrench size rear	mm (in)	22 (7/8)
Trimming Tool		TRIM-12-S06 TRIM-SCF12-D01-A

### TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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### External Document Links

[Installation Instruction](#)

### Notes