

## 7-16 DIN Male Connector for 7/8" Coaxial Cable, OMNI FIT™ Premium, Right Angle, O-Ring and compression sealing

Radio Frequency Systems line of high performance coaxial cable connectors are designed specifically to provide the highest quality connector-cable interface while simplifying and speeding up the attachment of connectors to CELLFLEX® coaxial cables.

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 O-Ring 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		7/8"
Cable Type		Foam Dielectric
Model Series		LCF78-50A-Series, RCF78-50A-Series
Connector Interface		7-16 DIN
Connector Type		OMNI FIT™ PREMIUM Right Angle
Sealing Method		O-Ring + 360° Compression
Gender		Male

#### 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: 1.02 (40.1) 1.0 < f ≤ 2.7 GHz: 1.04 (34.2) 2.7 < f ≤ 3.7 GHz: 1.08 (28.3)

#### MECHANICAL SPECIFICATIONS

Plating Outer/Inner		NiTin/Silver
Length	mm (in)	82.85 (3.26)
Outer Diameter	mm (in)	52.4 (2.06)
Weight	kg (lb)	0.33 (0.73)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		360° clamping

#### ACCESSORIES

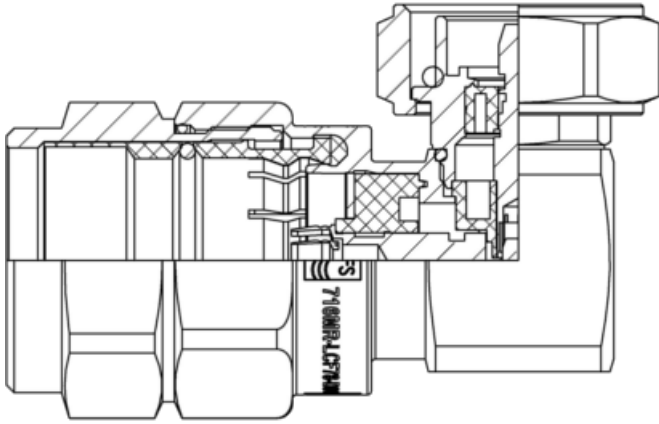
Wrench size front	mm (in)	36 (1-7/16)
Wrench size rear	mm (in)	36 (1-7/16)
Trimming Tool		TRIM-78-L TRIM-SET-L78-D01 TRIM-LCF78-D01-A

#### TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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### External Document Links

Installation Instruction

### Notes