

7-16 DIN Male Right Angle Connector for 1/2" Coaxial Cable, OMNI FIT™ standard, O-ring sealing

OMNI FIT^M 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.

The 7-16 connector is the most rugged RF connection meeting all requirements even under the most severe environmental conditions.

FEATURES / BENEFITS

- Cost effective two-piece design for safe and easy installation
- Compatible with copper and aluminium cable types i.e. one connector for both outer conductor materials eliminates the risk of faulty connector installation and helps to keep inventory down
- 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
- Superior 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) and CRoHS (China) compliant i.e. can be used on a global basis



716MR-LCF12-C03

Technical features

			ONS

Transmission Line Type		Coaxial Cable			
Cable Size		1/2			
Cable Type		Foam Dielectric			
Model Series		LCF12-50 Series	ICA12-50 Series	RCF12-50 Series	
Connector Interface		7-16 DIN			
Connector Type		OMNI FIT™ Standard Right Angle			
Sealing Method		O-Ring			
Gender		Male Right Angle			

ELECTRICAL SPECIFICATIONS

Nominal Impedance, ohms	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-157 ; typical -160
Maximum Frequency	GHz	6.0
		0 < f ≤ 1.0 GHz: 1.04 (34.1) 1.0 < f ≤ 2.2 GHz: 1.07 (29.4)
VCWD Detum Loss	VSWR (dB)	2.2 < f ≤ 2.7 GHz: 1.07 (29.4)
VSWR, Return Loss		2.7 < f ≤ 3.7 GHz: 1.13 (24.3)
		3.7 < f ≤ 5.0 GHz: 1.25 (19.1)
		5.0 < f ≤ 6.0 GHz: 1.30 (17.7)

716MR-LCF12-C03 REV : C REV DATE : 14 Oct 2025 **www.rfstechnologies.com**



7-16 DIN Male Right Angle Connector for 1/2" Coaxial Cable, OMNI FIT™ standard, O-ring sealing

mm (in) mm (in) mm (in) mm (in) mm (in)	57.9 (2.28) 38.7 (1.5) Basket Spring C-Ring 20 (13/16) 20 (13/16)	
mm (in) mm (in)	Basket Spring C-Ring 20 (13/16) 20 (13/16)	
mm (in)	Spring C-Ring 20 (13/16) 20 (13/16)	
mm (in)	20 (13/16) 20 (13/16)	
mm (in)	20 (13/16)	
mm (in)	20 (13/16)	
	IP68	
	IP68	
S32. 0		

External Document Links Application Note Installation instruction Notes

716MR-LCF12-C03 REV : C REV DATE : 14 Oct 2025 **www.rfstechnologies.com**