



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 the o-ring 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		1-5/8
Cable Type		Foam Dielectric
Model Series		LCF158-50 Series, RCF158-50 Series
Connector Interface		7-16 DIN
Connector Type		OMNI FIT™ PREMIUM Straight
Sealing Method		O-Ring + 360° Clamping
Gender		Female

ELECTRICAL SPECIFICATIONS

Nominal Impedance, ohms	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-163 ; typical -167
Maximum Frequency	GHz	2.75
VSWR, Return Loss	VSWR (dB)	0 $\leq f \leq 1.0 \text{ GHz}$: 1.02 (40) 1.0 $\leq f \leq 2.2 \text{ GHz}$: 1.03 (37) 2.0 $\leq f \leq 2.75 \text{ GHz}$: 1.06 (31)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		NiTIn/Silver
Length	mm (in)	89.4 (3.52)
Outer Diameter	mm (in)	62.8 (2.472)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		360° clamping



716F-LCF158-E01

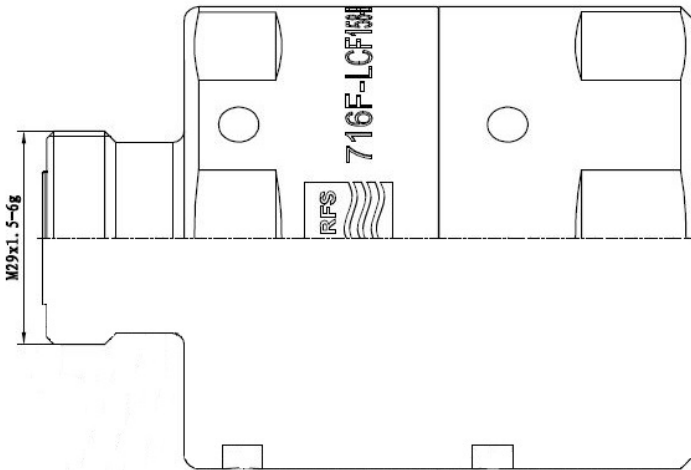
7-16 DIN Female Connector for 1-5/8" Coaxial Cable, OMNI FIT™ Premium, Straight, O-Ring and compression sealing

ACCESSORIES

Wrench size front	mm (in)	60
Wrench size rear	mm (in)	60
Poly Hook Spanner	mm (in)	PHS 60-90-5 Ø 60-90 (2.3-3.5) Pin 5 (0.2)
Trimming Tool		TRIM-SET-L114-D01 TRIM-LCF158-D01-A

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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External Document Links
[Installation Instruction](#)

Notes