



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 4.3-10 connector is an innovative, space-saving RF connection meeting all requirements even under the most severe environmental conditions and not relying on coupling nut torque. Sealing against outer conductor and jacket by means of the 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.

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	Radiating
Model Series		LCF158-50A-Series	LCF158-50L-Series
Connector Interface		4.3-10	
Connector Type		OMNI FIT™ PREMIUM Straight	
Sealing Method		O-ring	
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 &lt; f ≤ 1.0 GHz: 1.02 (40)	
		1.0 &lt; f ≤ 2.2 GHz: 1.03 (37)	
		2.2 &lt; f ≤ 2.75 GHz: 1.06 (31)	



### 43F-LCF158-E01

4.3-10 Female Connector for 1-5/8" Coaxial Cable, OMNI FIT™ , O-ring sealing

#### MECHANICAL SPECIFICATIONS

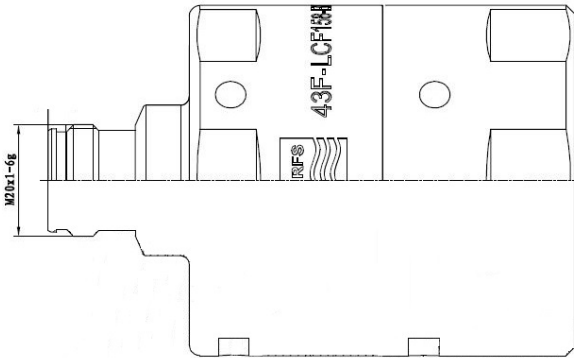
Plating Outer/Inner		Trimetal/Silver
Length	mm (in)	95.4 (3.756)
Outer Diameter	mm (in)	62.8 (2.472)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		Spring Claw

#### 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)

#### TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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