



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 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		Male	

ELECTRICAL SPECIFICATIONS

Nominal Impedance, ohms	Ohm	50	
3rd Order IM Product @ 2x20 Watts	dBc	-163, typical -167dBc	
Maximum Frequency	GHz	2.75	
VSWR, Return Loss	VSWR (dB)	0 $\leq f \leq 1.0 \text{ GHz}$: 1.02 (40.1) 1.0 $\leq f \leq 2.2 \text{ GHz}$: 1.03 (36.6) 2.2 $\leq f \leq 2.75 \text{ GHz}$: 1.06 (30.7)	

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		Trimetal/Silver	
Length	mm (in)	94.6 (3.724)	
Outer Diameter	mm (in)	62.8 (2.472)	
Inner Contact Attachment		Spring Finger	
Outer Contact Attachment		Spring Claw	



43M-LCF158-E01

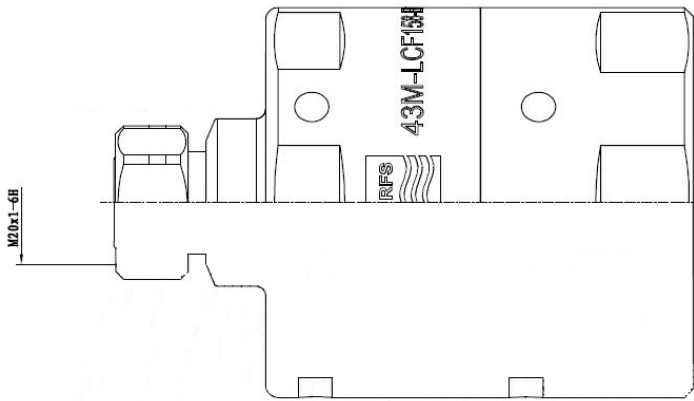
4.3-10 Male Straight Connector for 1 5/8" Coaxial Cable, OMNI FIT™ Premium, O-Ring and compression sealing

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)

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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