

PRODUCT DATASHEET 43M-LCF78-D01

4.3-10 Male Straight Connector for 7/8" Coaxial Cable, OMNI FIT™ Premium, Polymer claw and compression sealing

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 polymer claw 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
- 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



43M-LCF78-D01

Transmission Line Type	Coaxial Cable		
Cable Size		7/8	
Cable Type		Foam Dielectric	
Model Series		LCF78-50 Series, RCF78-50 Series	
Connector Interface		4.3-10	
Connector Type		OMNI FIT™ PREMIUM Straight	
Sealing Method		Polymer claw + 360° Compression	
Gender		Male	
ELECTRICAL SPECIFICATIONS			
Nominal Impedance, ohms	Ohm	50	
3rd Order IM Product @ 2x20 Watts	dBc	-163 ; typical -167	
Maximum Frequency	GHz	5.0	
VSWR, Return Loss	VSWR (dB)	0 < f ≤ 1.0 GHz: 1.02 (40.1) 1.0 < f ≤ 2.7 GHz: 1.03 (36.6) 2.7 < f ≤ 3.7 GHz: 1.06 (30.7) 3.7 < f ≤ 5.0 GHz: 1.09 (27.3)	

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MECHANICAL SPECIFICATIONS		
Plating Outer/Inner		NiTin/Silver
Length	mm (in)	70.35 (2.77)
Outer Diameter	mm (in)	40 (1.57)
Inner Contact Attachment		Basket
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-SET-L78-D01, TRIM-LCF78-D01-A
TESTING AND ENVIRONMENTAL		
Waterproof Level		IP68
		90'00
43M-LCF78-D01 Outlin	ne Drawing	
External Document Links Installation Instruction		Notes