

OMNI FIT<sup>™</sup> 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. 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 to meet PIM performance.

## 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

## **Technical features**

## **GENERAL SPECIFICATIONS**



43M-LCF12-C03

Transmission Line Type		Coaxial Cable				
Cable Size		1/2				
Cable Type		Foam Dielectric Radiating				
Model Series		LCF12-50 Series ICA12-50 Series RCF12-50 Se		RCF12-50 Series		
Connector Interface		4.3-10				
Connector Type		OMNI FIT™ Standard				
Sealing Method		O-ring				
Gender		Male				
ELECTRICAL SPECIFICATIONS						
Nominal Impedance, ohms	Ohm	50				
3rd Order IM Product @ 2x20 Watts	dBc	-162 ; typical -166				
Maximum Frequency	GHz	6.0				
VSWR, Return Loss	VSWR (dB)	0 < f ≤ 1.0 GHz: 1.03 (36.6) 1.0 < f ≤ 2.7 GHz: 1.04 (34.1) 2.7 < f ≤ 3.7 GHz: 1.08 (28.3) 3.7 < f ≤ 5.0 GHz: 1.10 (26.4) 5.0 < f ≤ 6.0 GHz: 1.25 (19.1)				
MECHANICAL SPECIFICATIONS						

Plating Outer/Inner		Trimetal/Silver		
Length	mm (in)	51 (2)		
Outer Diameter	mm (in)	25 (1)		
Inner Contact Attachment		Spring Finger		
Outer Contact Attachment		Spring C-Ring		

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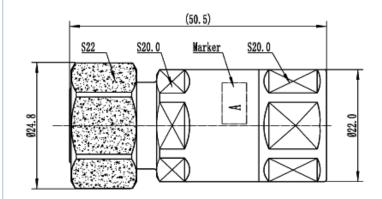
www.rfsworld.com



## PRODUCT DATASHEET 43M-LCF12-C03

4.3-10 Male Connector for 1/2" Coaxial Cable, OMNI FIT™ standard, O-ring sealing

ACCESSORIES					
Wrench size front	mm (in)	20 (13/16)			
Wrench size rear	mm (in)	20 (13/16)			
Trimming Tool		TRIM-SET-L12-C02			
TESTING AND ENVIRONMENTAL					
Waterproof Level		IP68			



43M-LCF12-C03 Outline Drawing

External Document Links Installation Instruction Notes

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