

4.3-10 Male Straight Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, O-Ring and compression sealing

OMNI FITM 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**

G	FN	JFR	ΔI	SPE	CIF	ICA	TIO	NS

Transmission Line Type	Coaxial Cable		
Cable Size	1/2		
Cable Type	Foam Dielectric		
Model Series	LCF12-50 Series, ICA12-50 Series, RCF12-50 Series		
Connector Interface	4.3-10		
Connector Type	OMNI FIT™ PREMIUM Straight		
Sealing Method	O-ring + 360° Compression		
Gender	Male		

### **ELECTRICAL SPECIFICATIONS**

Nominal Impedance, ohms	Ohm	50	
3rd Order IM Product @ 2x20 Watts	dBc	-163 ; typical -167	
Maximum Frequency	GHz	6.0	
VSWR, Return Loss	VSWR (dB)	0 < $f \le 1.0$ GHz: 1.02 (40) 1.0 < $f \le 2.2$ GHz: 1.03 (37) 2.2 < $f \le 2.7$ GHz: 1.03 (36) 2.7 < $f \le 3.8$ GHz: 1.06 (31) 3.8 < $f \le 5.0$ GHz: 1.11 (26) 5.0 < $f \le 6.0$ GHz: 1.15 (23)	

## **MECHANICAL SPECIFICATIONS**

Plating Outer/Inner		Tri metal alloy / Silver		
Length	mm (in)	54.7 (2.15)		
Outer Diameter	mm (in)	23 (0.91)		
Inner Contact Attachment		Basket		
Outer Contact Attachment		360° clamping		

43M-LCF12-E01 REV: A REV DATE: 18 Feb 2020 **www.rfsworld.com** 

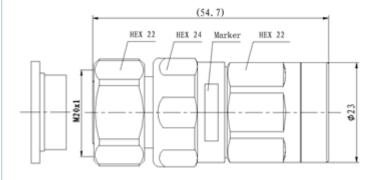


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# ACCESSORIES Wrench size front mm (in) 22 / 24 (7/8) Wrench size rear mm (in) 22 (7/8) Trimming Tool TRIM-SET-L12-D01, TRIM-LCF12-D01-A

# **TESTING AND ENVIRONMENTAL**

Waterproof Level	IP68
Trace, proof Ecrei	11 00



External Document Links Installation Instruction

Notes

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