

PRODUCT DATASHEET

4.3-10 Male Straight Connector for 1 1/4" Coaxial Cable, OMNI FIT™ Premium, O-Ring 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 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 1/4	
Cable Type		Foam Dielectric	
Connector Interface		4.3-10	
Connector Type		OMNI FIT™ PREMIUM Straight	
Sealing Method		Sealing Rubber + 360° Clamping	
Gender		Male	
ELECTRICAL SPECIFICATIONS			
Nominal Impedance, ohms	Ohm	50	
3rd Order IM Product @ 2x20 Watts	dBc	-163 ; typical -167	
Maximum Frequency	GHz	3,6	
VSWR, Return Loss	VSWR (dB)	$0 < f \le 1.0 \text{ GHz: } 1.02 (40)$ $1.0 < f \le 2.2 \text{ GHz: } 1.04 (34)$ $2.2 < f \le 2.7 \text{ GHz: } 1.06 (31)$ $2.7 < f \le 3.6 \text{ GHz: } 1.08 (28)$	
MECHANICAL SPECIFICATIONS			
Plating Outer/Inner		Tri metal alloy / Silver	
Length	mm (in)	81.6 (3.213)	
Outer Diameter	mm (in)	50.95 (2)	
Inner Contact Attachment		Basket	
Outer Contact Attachment		360° clamping	
ACCESSORIES			
Wrench size front	mm (in)	48	
Wrench size rear	mm (in)	48	
3M-LCF114-E01		REV : A REV DATE : 06 May 2024	www.rfsworld.coi



All values nominal unless tolerances provided; information contained in the present datasheet is subject to confirmation at time of ordering



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TESTING AND ENVIRONMENTAL				
Waterproof Level		IP68		
HEX 22		HEX48		

External Document Links Installation Instruction Notes

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