

#### PRODUCT DATASHEET

#### 43F-LCF78-D01

# 4.3-10 Female 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
- $\bullet$  RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis



OMNI FIT™ Premium Connectors

# **Technical features**

#### **GENERAL SPECIFICATIONS**

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	Female

### **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 < $f \le 1.0$ GHz: $1.02$ (40.1) 1.0 < $f \le 2.7$ GHz: $1.03$ (36.6) 2.7 < $f \le 3.7$ GHz: $1.06$ (30.7) 3.7 < $f \le 5.0$ GHz: $1.09$ (27.3)

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# MECHANICAL SPECIFICATIONS Plating Outer/Inner MiTin/Silver Length mm (in) 68.2 (2.69) Outer Diameter mm (in) 40 (1.57)

Inner Contact Attachment Basket

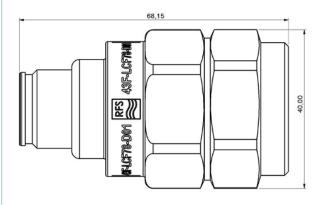
 Outer Contact Attachment
 360° clamping

**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



43F-LCF78-D01 Outline Drawing

External Document Links Installation Instruction

Notes

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