



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

OMNI FIT™ 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.



43F-LCF12-C03

### 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

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™ Standard
Sealing Method		O-ring
Gender		Female

#### ELECTRICAL SPECIFICATIONS

Nominal Impedance	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)	54.2 (2.13)
Outer Diameter	mm (in)	22 (0.87)
Weight	kg (lb)	0.075 (0.17)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		Spring C-Ring

#### ACCESSORIES

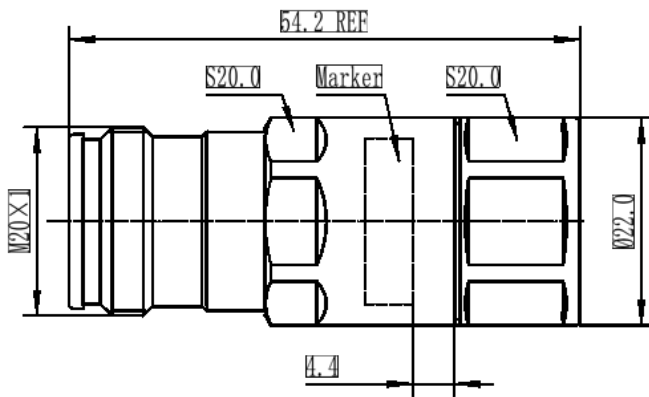
Wrench size front	mm (in)	20 (13/16)
Wrench size rear	mm (in)	20 (13/16)
Trimming Tool		TRIM-SET-L12-C02

#### TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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43F-LCF12-C03 Outline Drawing

### External Document Links

Installation instruction

### Notes