

# 4.3-10 Male Hand-Screw Connector for 1/2" Coaxial SuperFlexibleCable, OMNI FIT™ standard

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

Hand-Screw attachment mechanism that is ideal for indoor and outdoor spaces where installation must be completed using only one hand.

#### **FEATURES / BENEFITS**

- Cost effective two-piece design for safe and easy installation
- 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
- Standard 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) compliant i.e. can be used on a global basis
- Hand-Screw Type connector could be torqued by hand, possesses special feature to prevent unwanted loosening of the coupling nut which could fit for both indoor and outdoor application where small installation space is required to accommodate one of the hands



43MH-SCF12-C03

## **Technical features**

#### **GENERAL SPECIFICATIONS**

Transmission Line Type	Coaxial Cable
Cable Size	1/2
Cable Type	Foam Dielectric Superflexible
Model Series	SCF12-50 Series
Connector Interface	4.3-10 Hand-Screw
Connector Type	OMNI FIT™ Standard
Sealing Method	O-ring
Gender	Male

### **ELECTRICAL SPECIFICATIONS**

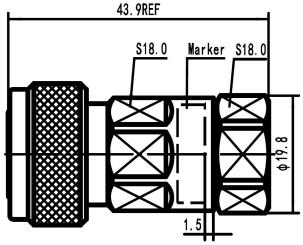
Nominal Impedance, ohms	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-162 ; typical -166
Maximum Frequency	GHz	6.0
VSWR, Return Loss	VSWR (dB)	0 < $f \le 1.0$ GHz: 1.03 (36.6) 1.0 < $f \le 2.7$ GHz: 1.04 (34.1) 2.7 < $f \le 3.7$ GHz: 1.08 (28.3) 3.7 < $f \le 5.0$ GHz: 1.10 (26.4) 5.0 < $f \le 6.0$ GHz: 1.25 (19.1)

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#### **MECHANICAL SPECIFICATIONS Plating Outer/Inner** Trimetal/Silver Length 43.9 (1.73) mm (in) **Outer Diameter** mm (in) 25 (1) **Inner Contact Attachment** Basket **Outer Contact Attachment** Rigidity impaction **ACCESSORIES** Wrench size front mm (in) 18 (3/4) Wrench size rear 18 (3/4) mm (in) **Trimming Tool** TRIM-SET-S12-C02 **TESTING AND ENVIRONMENTAL Waterproof Level** IP68



43MH-SCF12-C03 Outline drawing

External Document Links Installation Instruction

Notes

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