



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.

**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



43F-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                        |
| Connector Type         |  | OMNI FIT™ Standard            |
| Sealing Method         |  | O-ring                        |
| Gender                 |  | Female                        |

**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 &lt; f ≤ 1.0 GHz: 1.03 (36.6)<br>1.0 &lt; f ≤ 2.7 GHz: 1.04 (34.1)<br>2.7 &lt; f ≤ 3.7 GHz: 1.08 (28.3)<br>3.7 &lt; f ≤ 5.0 GHz: 1.10 (26.4)<br>5.0 &lt; f ≤ 6.0 GHz: 1.25 (19.1) |

**MECHANICAL SPECIFICATIONS**

|                          |         |                    |
|--------------------------|---------|--------------------|
| Plating Outer/Inner      |         | Trimetal/Silver    |
| Length                   | mm (in) | 48.78 (1.92)       |
| Outer Diameter           | mm (in) | 19.8 (0.78)        |
| Inner Contact Attachment |         | Basket             |
| Outer Contact Attachment |         | Rigidity impaction |

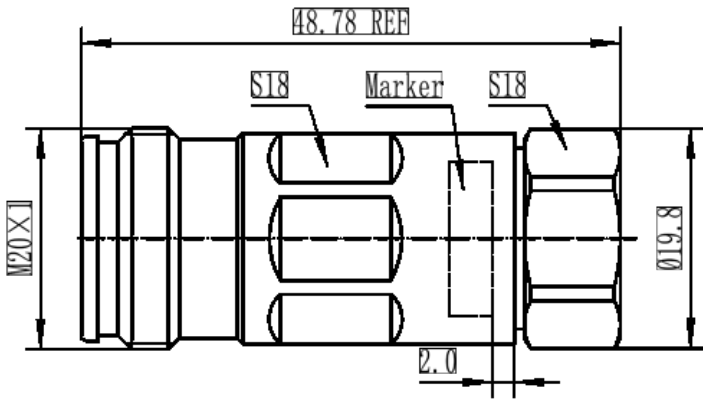


**ACCESSORIES**

|                   |         |                  |
|-------------------|---------|------------------|
| Wrench size front | mm (in) | 18 (3/4)         |
| Wrench size rear  | mm (in) | 18 (3/4)         |
| Trimming Tool     |         | TRIM-SET-S12-C02 |

**TESTING AND ENVIRONMENTAL**

|                  |  |      |
|------------------|--|------|
| Waterproof Level |  | IP68 |
|------------------|--|------|



43F-SCF12-C03 Outline Drawing

**External Document Links**

[Installation Instruction](#)

**Notes**