

7-16 Male Connector for 1/2" Coaxial SuperFlexibleCable, OMNI FIT™ standard

OMNI FIT^M 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 connectors are fully tested for mechanical and electrical compliance to industry specifications. The 7-16 connector is the most rugged RF connection meeting all requirements even under the most severe environmental conditions.

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



716M-SCF12-C03

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| External | Doci | ıment Links | | | |

Installation Instruction

Technical features

| GENERAL | SPECIFI | CATIONS |
|----------------|---------|----------------|
|----------------|---------|----------------|

| Transmission Line Type | De Coaxial Cable | |
|------------------------|-------------------------------|--|
| Cable Size | 1/2 | |
| Cable Type | Foam Dielectric Superflexible | |
| Model Series | SCF12-50 Series | |
| Connector Interface | 7-16 | |
| Connector Type | OMNI FIT™ Standard | |
| Sealing Method | O-ring | |
| Gender | Male | |

Notes

ELECTRICAL SPECIFICATIONS

| Nominal Impedance, ohms | Ohm | 50 |
|--------------------------------------|-----------|--|
| 3rd Order IM Product @ 2x20 Watts | dBc | -157 ; typical -160 |
| Maximum Frequency | GHz | 6.0 |
| | | 0 < f ≤ 1.0 GHz: 1.03 (36.6) 1.0 < f ≤ 2.7 GHz: 1.04 (34.1) |
| VSWR, Return Loss | VSWR (dB) | 2.7 < f ≤ 3.7 GHz: 1.08 (28.3) 3.7 < f ≤ 5.0 GHz: 1.15 (23.1) 5.0 < f ≤ 6.0 GHz: 1.25 (19.1) |

MECHANICAL SPECIFICATIONS

| Plating Outer/Inner | | Trimetal/Silver |
|--------------------------|---------|--------------------|
| Length | mm (in) | 43.5 (1.72) |
| Outer Diameter | mm (in) | 36 (1.42) |
| Inner Contact Attachment | | Basket |
| Outer Contact Attachment | | Rigidity impaction |

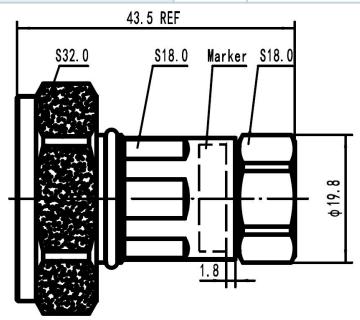
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| ACCESSORIES | | | |
|---------------------------|---------|------------------|--|
| Wrench size front | mm (in) | 18 (3/4) | |
| Wrench size rear | mm (in) | 18 (3/4) | |
| Trimming Tool | | TRIM-SET-S12-C02 | |
| TESTING AND ENVIRONMENTAL | | |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

Waterproof Level IP68



716M-SCF12-C03 Outline drawing

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