



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. All RFS connectors are fully tested for mechanical and electrical compliance to industry specifications.

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



NF-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 | | N |
| 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 | -157 ; typical -160 |
| 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: 1.15 (23.1) 5.0 < f ≤ 6.0 GHz: 1.25 (19.1) |

MECHANICAL SPECIFICATIONS

| | | |
|--------------------------|---------|--------------------|
| Plating Outer/Inner | | Trimetal/Silver |
| Length | mm (in) | 50.1 (2) |
| Outer Diameter | mm (in) | 19.8 (0.78) |
| Inner Contact Attachment | | Basket |
| Outer Contact Attachment | | Rigidity impaction |

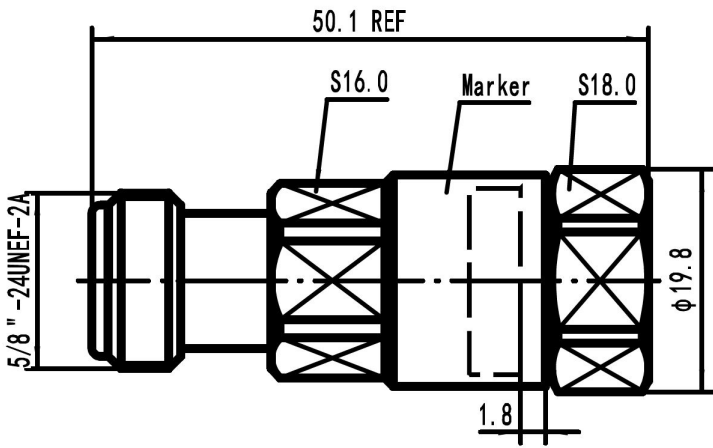
ACCESSORIES

| | | |
|-------------------|---------|------------------|
| Wrench size front | mm (in) | 16 (0.63) |
| Wrench size rear | mm (in) | 18 (0.71) |
| Trimming Tool | | TRIM-SET-S12-C02 |



TESTING AND ENVIRONMENTAL

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



NF-SCF12-C03 Outline drawing

[External Document Links](#)
[Installation Instruction](#)

[Notes](#)