



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
- 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



OMNI FIT™ Standard Connectors

[External Document Links](#)

[Notes](#)

[Application Note](#)

[Installation instruction](#)

Technical features

GENERAL SPECIFICATIONS

| | | | |
|-------------------------------|--|--------------------|-----------------|
| Transmission Line Type | | Coaxial Cable | |
| Cable Size | | 1/2 | |
| Cable Type | | Foam Dielectric | Radiating |
| Model Series | | LCF12-50 Series | ICA12-50 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 | -159 typical | |
| Maximum Frequency | GHz | 6 | |
| 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 ≤ 6.0 GHz: 1.08 (28) | |

MECHANICAL SPECIFICATIONS

| | | | |
|---------------------------------|---------|-----------------|--|
| Plating Outer/Inner | | Trimetal/Silver | |
| Length | mm (in) | 55.4 (2.18) | |
| Outer Diameter | mm (in) | 25.9 (1) | |
| Inner Contact Attachment | | Basket | |
| Outer Contact Attachment | | Spring C-Ring | |



ACCESSORIES

| | | |
|--------------------------|---------|------------|
| Wrench size front | mm (in) | 24 (15/16) |
| Wrench size rear | mm (in) | 24 (15/16) |

TESTING AND ENVIRONMENTAL

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

