



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 Technologies connectors are fully tested for mechanical and electrical compliance to industry specifications. The N connector is one of the most common RF connector types and meets all requirements even under the most severe environmental conditions.

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
- 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



OMNI FIT™ Standard Connectors

Technical features

GENERAL SPECIFICATIONS

| | | |
|------------------------|-----------------|--------------------|
| Transmission Line Type | | Coaxial Cable |
| Cable Size | | 7/8 |
| Cable Type | | Foam Dielectric |
| Model Series | LCF78-50 Series | RCF78-50 Series |
| Connector Interface | | N |
| 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 | -159 typical |
| Maximum Frequency | GHz | 3.7 |
| 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) |

MECHANICAL SPECIFICATIONS

| | | |
|--------------------------|---------|-----------------|
| Plating Outer/Inner | | Trimetal/Silver |
| Length | mm (in) | 62.8 (2.47) |
| Outer Diameter | mm (in) | 35.5 (1.4) |
| Inner Contact Attachment | | Spring Finger |
| Outer Contact Attachment | | Spring O-Ring |

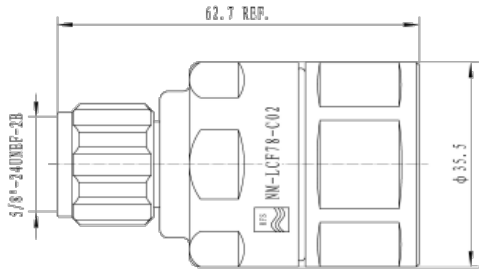
ACCESSORIES

| | | |
|-------------------|---------|------------|
| Wrench size front | mm (in) | 32 (1-1/4) |
| Wrench size rear | mm (in) | 32 (1-1/4) |



TESTING AND ENVIRONMENTAL

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



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

Notes