



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 <math>\leq f \leq 1.0 \text{ GHz}</math>: 1.03 (36.6)<br>1.0 <math>\leq f \leq 2.7 \text{ GHz}</math>: 1.04 (34.1)<br>2.7 <math>\leq f \leq 3.7 \text{ GHz}</math>: 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**

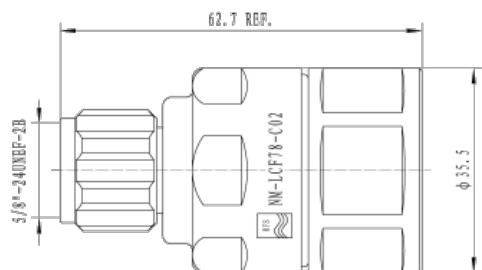
|                   |         |            |
|-------------------|---------|------------|
| Wrench size front | mm (in) | 32 (1-1/4) |
| Wrench size rear  | mm (in) | 32 (1-1/4) |

**NM-LCF78-C02**

N Male Connector for 7/8" Coaxial Cable, OMNI FIT™ standard, O-ring sealing

**TESTING AND ENVIRONMENTAL****Waterproof Level**

IP68



## External Document Links

[Application Note](#)[Installation Instruction](#)

## Notes