PRODUCT DATASHEET

# NMR-LCF12-C02

N Male Right Angle Connector for 1/2" Coaxial Cable, OMNI FIT™ standard

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.




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

## 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 | RCF12-50 Series |
| **Connector Interface** | | N | | |
| **Connector Type** | | OMNI FIT™ Standard Right Angle | | |
| **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 | 6 |
| **VSWR, Return Loss** | VSWR (dB) | 0 < f ≤ 1.0 GHz: 1.04 (34.2)<br>1.0 < f ≤ 2.0 GHz: 1.06 (30.7)<br>2.0 < f ≤ 2.7 GHz: 1.10 (26.4)<br>2.7 < f ≤ 3.7 GHz: 1.12 (24.9)<br>3.7 < f ≤ 6.0 GHz: 1.15 (23.1) |

### MECHANICAL SPECIFICATIONS

| | | |
|---|---|---|
| **Plating Outer/Inner** | | Trimetal/Silver |
| **Length** | mm (in) | 52.3 (2.06) |
| **Outer Diameter** | mm (in) | 49.5 (1.95) |
| **Inner Contact Attachment** | | Basket |
| **Outer Contact Attachment** | | Spring C-Ring |



All values nominal unless tolerances provided; information contained in the present datasheet is subject to confirmation at time of ordering

## ACCESSORIES

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

## TESTING AND ENVIRONMENTAL

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

External Document Links
Application Note
Installation instruction

Notes



All values nominal unless tolerances provided; information contained in the present datasheet is subject to confirmation at time of ordering