



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**

|                               |  |                                |                 |                 |
|-------------------------------|--|--------------------------------|-----------------|-----------------|
| <b>Transmission Line Type</b> |  | Coaxial Cable                  |                 |                 |
| <b>Cable Size</b>             |  | 1/2                            |                 |                 |
| <b>Cable Type</b>             |  | Foam Dielectric                |                 | Radiating       |
| <b>Model Series</b>           |  | LCF12-50 Series                | ICA12-50 Series | RCF12-50 Series |
| <b>Connector Interface</b>    |  | N                              |                 |                 |
| <b>Connector Type</b>         |  | OMNI FIT™ Standard Right Angle |                 |                 |
| <b>Sealing Method</b>         |  | O-ring                         |                 |                 |
| <b>Gender</b>                 |  | Male                           |                 |                 |

**ELECTRICAL SPECIFICATIONS**

|  |           |   |  |  |
|--|-----------|---|--|--|
| <b>Nominal Impedance, ohms</b>           | Ohm       | 50  |  |  |
| <b>3rd Order IM Product @ 2x20 Watts</b> | dBc       | -159 typical  |  |  |
| <b>Maximum Frequency</b>                 | GHz       | 6   |  |  |
| <b>VSWR, Return Loss</b>                 | VSWR (dB) | 0 &lt; f ≤ 1.0 GHz: 1.04 (34.2)<br>1.0 &lt; f ≤ 2.0 GHz: 1.06 (30.7)<br>2.0 &lt; f ≤ 2.7 GHz: 1.10 (26.4)<br>2.7 &lt; f ≤ 3.7 GHz: 1.12 (24.9)<br>3.7 &lt; f ≤ 6.0 GHz: 1.15 (23.1) |  |  |

**MECHANICAL SPECIFICATIONS**

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



### NMR-LCF12-C02

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

#### ACCESSORIES

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

#### TESTING AND ENVIRONMENTAL

|                         |  |      |
|-------------------------|--|------|
| <b>Waterproof Level</b> |  | IP68 |
|-------------------------|--|------|

[External Document Links](#)

[Notes](#)

[Application Note](#)

[Installation instruction](#)