

N Male Connector for 1-5/8" Coaxial Cable, OMNI FIT™ Premium, Straight, O-Ring and compression sealing

Product Description

OMNI FIT™ high performance connectors are designed for use with both CELLFLEX® (copper) and CELLFLEX® Lite (aluminium) 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. The N connector meets all technical requirements and covers high frequencies as well as legacy applications. Sealing against outer conductor and jacket by means of O-Ring and 360° compression fit. Multifunctional, self-lubricating HighTech polymer assembly locks on cable corrugation, avoids electrochemical potential differences and compression-fits to the jacket.



OMNI FIT™ Premium Connectors

Features/Benefits

- Ultra high PIM performance i.e. reduced interference leading to high customer satisfaction
- Two-piece design i.e. visual inspection of interlocking leads to improved installation security
- OMNI FIT™ concept i.e. streamlined order management and reduced stock level
- Watertight sealing in mated and unmated condition, i.e. reduced efforts during installation and improved security during operation
- Unique NiTin plating i.e. extreme resistance against corrosion even under hardest climatic and environmental circumstances
- Multi-thread (Tristart) design i.e. simplified and accelerated tightening process
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis

Technical Specifications

| | |
|--|---------------------------------------|
| Transmission Line Type | Coaxial Cable |
| Cable Size | 1-5/8" |
| Cable Type | Foam Dielectric |
| Model Series | LCF158-50A-Series / LCF158-50L-Series |
| Connector Interface | N |
| Nominal Impedance, ohms | 50 |
| Connector Type | OMNI FIT™ PREMIUM Straight |
| Sealing Method | O-Ring + 360° Compression |
| Gender | Male |
| Plating Outer/Inner | NiTIn/Silver |
| Length, mm (in) | 91.65 (3.60) |
| Outer Diameter, mm (in) | 60 (2.36) |
| Weight, kg (lb) | 0.45 (1.00) |
| Inner Contact Attachment | Spring Finger |
| Outer Contact Attachment | 360° clamping |
| 3rd Order IM Product @ 2x20 Watts, dBc | -156 ; typical -162 |
| Maximum Frequency, GHz | 2.75 |
| VSWR (Return Loss) for $0 < f \leq 1.0\text{GHz}$ | 1.02:1 (40.0 dB) |
| VSWR (Return Loss) for $1.0 < f \leq 2.2\text{GHz}$ | 1.03:1 (36.6 dB) |
| VSWR (Return Loss) for $2.2 < f \leq 2.75\text{GHz}$ | 1.06:1 (30.7 dB) |
| Wrench size front, mm (in) | Poly Hook Spanner PHS 60-90-5 |
| Wrench size rear, mm (in) | Poly Hook Spanner PHS 60-90-5 |
| Trimming Tool | TRIM-C114-C12 TRIM-LCF158-D01-A |
| Waterproof Level | IP68 |

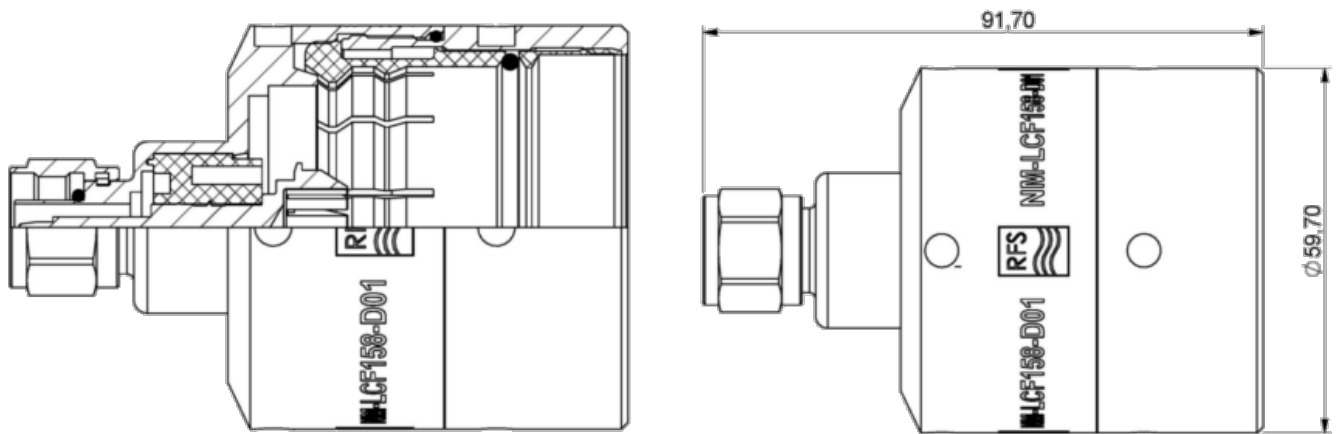
Notes

Other Documentation

Installation Instruction: [2800087-D.pdf](#)



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All information contained in the present datasheet is subject to confirmation at time of ordering