

7-16 DIN Male Connector for 7/8" Coaxial Cable, OMNI FIT™ Premium, Right Angle, O-Ring and compression sealing

Radio Frequency Systems line of high performance coaxial cable connectors are designed specifically to provide the highest quality connector-cable interface while simplifying and speeding up the attachment of connectors to CELLFLEX® coaxial cables. 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 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 | | 7-16 DIN |
| Connector Type | | OMNI FIT™ PREMIUM Right Angle |
| Sealing Method | | O-Ring + 360° Compression |
| Gender | | Male |

ELECTRICAL SPECIFICATIONS

| | | |
|-----------------------------------|-----------|--|
| Nominal Impedance | Ohm | 50 |
| 3rd Order IM Product @ 2x20 Watts | dBc | -163 ; typical -167 |
| Maximum Frequency | GHz | 3.7 |
| VSWR, Return Loss | VSWR (dB) | 0 < f ≤ 1.0 GHz: 1.02 (40.1) 1.0 < f ≤ 2.7 GHz: 1.04 (34.2) 2.7 < f ≤ 3.7 GHz: 1.08 (28.3) |

MECHANICAL SPECIFICATIONS

| | | |
|--------------------------|---------|---------------|
| Plating Outer/Inner | | NiTin/Silver |
| Length | mm (in) | 82.85 (3.26) |
| Outer Diameter | mm (in) | 52.4 (2.06) |
| Weight | kg (lb) | 0.33 (0.73) |
| Inner Contact Attachment | | Spring Finger |
| Outer Contact Attachment | | 360° clamping |

ACCESSORIES

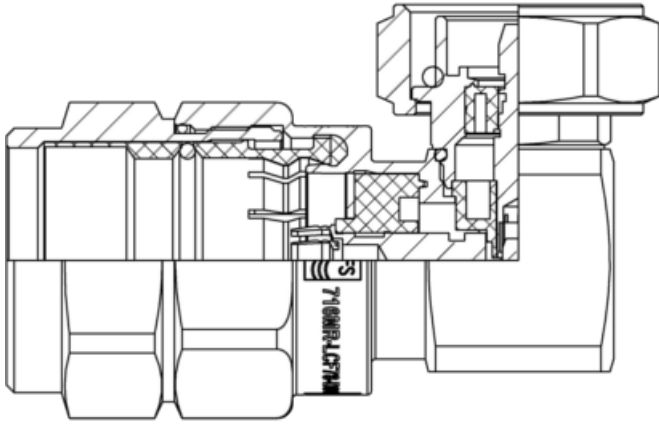
| | | |
|-------------------|---------|---|
| Wrench size front | mm (in) | 36 (1-7/16) |
| Wrench size rear | mm (in) | 36 (1-7/16) |
| Trimming Tool | | TRIM-78-L TRIM-SET-L78-D01 TRIM-LCF78-D01-A |

TESTING AND ENVIRONMENTAL

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



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External Document Links

[Installation Instruction](#)

Notes