

4.3-10 Female Straight Connector for 1/2" Coaxial Cable, OMNI FIT™ Premium, O-Ring and compression sealing

OMNI FIT^M 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 4.3-10 connector is an innovative, space-saving RF connection meeting all requirements even under the most severe environmental conditions and not relying on coupling nut torque. Sealing against outer conductor and jacket by means of the 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.



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
- Tri metal alloy 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 | 1/2 |
| Cable Type | Foam Dielectric Superflexible |
| Model Series | SCF12-50 Series |
| Connector Interface | 4.3-10 |
| Connector Type | OMNI FIT™ PREMIUM Straight |
| Sealing Method | sealing rubber |
| Gender | Male |

ELECTRICAL SPECIFICATIONS

| Nominal Impedance, ohms | Ohm | 50 |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| 3rd Order IM Product @ 2x20 Watts | dBc | -163 ; typical -167 |
| Maximum Frequency | GHz | 6 |
| | $0 < f \le 1.0 \text{ GHz: } 1.02 \text{ (40)}$ $1.0 < f \le 2.2 \text{ GHz: } 1.03 \text{ (37)}$ $2.2 < f \le 2.7 \text{ GHz: } 1.03 \text{ (36)}$ $2.7 < f \le 3.8 \text{ GHz: } 1.05 \text{ (30)}$ $3.8 < f \le 5.0 \text{ GHz: } 1.11 \text{ (26)}$ $5.0 < f \le 6.0 \text{ GHz: } 1.15 \text{ (23)}$ | 0 < f ≤ 1.0 GHz: 1.02 (40) |
| VSWR, Return Loss | | 1.0 < f ≤ 2.2 GHz: 1.03 (37) |
| | | 2.2 < f ≤ 2.7 GHz: 1.03 (36) |
| | | 2.7 < f ≤ 3.8 GHz: 1.05 (30) |
| | | ` ' |
| | | 5.0 < f ≤ 6.0 GHz: 1.15 (23) |

MECHANICAL SPECIFICATIONS

| Plating Outer/Inner | | Tri metal alloy / Silver |
|--------------------------|---------|--------------------------|
| Length | mm (in) | 54.1 (2.13) |
| Outer Diameter | mm (in) | 23.5 (0.9) |
| Inner Contact Attachment | | spring finger |
| Outer Contact Attachment | | clamping |

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| ACCESSORIES | | | |
|------------------------------------|---------|------------------------------------|--|
| Wrench size front | mm (in) | 22 (7/0) | |
| Wrench size front Wrench size rear | mm (in) | 22 (7/8) | |
| | mm (in) | 20 (7/8) | |
| rimming Tool | | TRIM-SET-S12-D01, TRIM-SCF12-D01-A | |
| ESTING AND ENVIRONMENT | AL | | |
| laterproof Level | | IP68 | |
| | | | |
| cternal Document Links | | Notes | |
| stallation Instruction | | | |
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