



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.

**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		3/8
Cable Type		Foam Dielectric
Model Series		LCF38-50 Series
Connector Interface		N
Connector Type		OMNI FIT™ PREMIUM Right Angle
Sealing Method		O-ring + 360° Compression
Gender		Male Right Angle

**ELECTRICAL SPECIFICATIONS**

Nominal Impedance, ohms	Ohm	50
3rd Order IM Product @ 2x20 Watts	dBc	-158 ; typical -163
Maximum Frequency	GHz	6
VSWR, Return Loss	VSWR (dB)	0 <math>\leq f \leq 1.0 \text{ GHz}</math>: 1.02 (40) 1.0 <math>\leq f \leq 2.2 \text{ GHz}</math>: 1.04 (34) 2.2 <math>\leq f \leq 2.7 \text{ GHz}</math>: 1.07 (30) 2.7 <math>\leq f \leq 3.8 \text{ GHz}</math>: 1.08 (28) 3.8 <math>\leq f \leq 5.0 \text{ GHz}</math>: 1.15 (23) 5.0 <math>\leq f \leq 6.0 \text{ GHz}</math>: 1.22 (20)

**MECHANICAL SPECIFICATIONS**

Plating Outer/Inner		Tri metal alloy/Silver
Length	mm (in)	70 (2.756)
Outer Diameter	mm (in)	24 (0.945)
Inner Contact Attachment		Basket
Outer Contact Attachment		Spring Finger

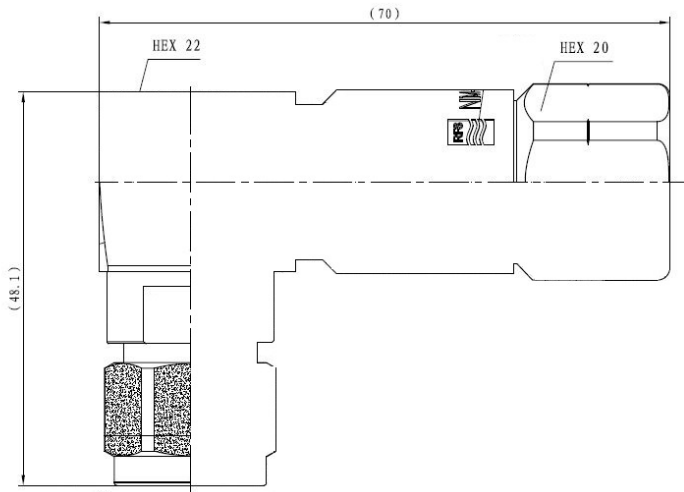
**ACCESSORIES**

Wrench size front	mm (in)	22
Wrench size rear	mm (in)	22



**TESTING AND ENVIRONMENTAL**

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



**External Document Links**

[1000028400\\_inst\\_con\\_lcf38-e01.pdf](#)

**Notes**