

# N Female Straight Connector for 3/8" Coaxial Cable, OMNI FIT™ Premium

OMNI FIT<sup>™</sup> 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 Technologies 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**

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Transmission Line Type	Coaxial Cable
Cable Size	3/8
Cable Type	Foam Dielectric
Connector Interface	N
Connector Type	OMNI FIT™ PREMIUM Straight
Sealing Method	O-ring + 360° Compression
Gender	Female

#### **ELECTRICAL SPECIFICATIONS**

Nominal Impedance, ohms	Ohm	50	
3rd Order IM Product @ 2x20 Watts	dBc	-163 ; typical -167	
Maximum Frequency	GHz	6	
	VSWR (dB)	0 < f ≤ 1.0 GHz: 1.02 (40)	
		1.0 < f ≤ 2.2 GHz: 1.03 (37)	
VCMD Detumbles		2.2 < f ≤ 2.7 GHz: 1.03 (37)	
VSWR, Return Loss		2.7 < f ≤ 3.8 GHz: 1.08 (28)	
		3.8 < f ≤ 5.0 GHz: 1.15 (23)	
		5.0 < f ≤ 6.0 GHz: 1.22 (20)	

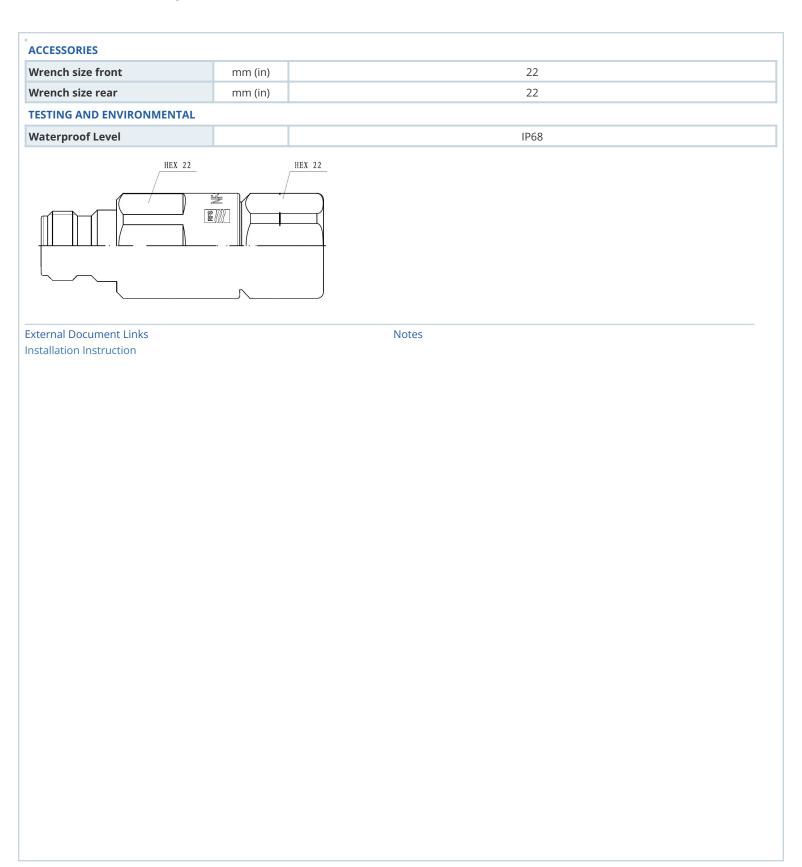
### **MECHANICAL SPECIFICATIONS**

Plating Outer/Inner		Tri metal alloy/Silver
Length	mm (in)	65 (2.559)
Outer Diameter	mm (in)	24 (0.945)
Inner Contact Attachment		Basket
Outer Contact Attachment		Spring Finger

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