

N Male Connector for 1/2" Coaxial Cable, RAPID FIT™ O-ring sealing

Product Description

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. RFS connectors are fully tested for mechanical and electrical compliance specifications. They are available in all popular cable sizes in a variety of mating interfaces. The N connector is one of the most common RF connector types. N type connectors from RFS will be delivered with a non-slotted outer conductor contact sleeve and a special gasket. Due to a special design of the coupling nut (without spring ring) N connectors can be tightened with increased torque. This increases the contact pressure.



RAPID FIT™ Connectors

Features/Benefits

- **Single-piece design for Fast and Easy Installation**
Reliable and simple attachment avoids unnecessary connector adjustments and provides outstanding performance every time. Saves time and provides cost savings.
- **Robust Mechanical Design**
Low and consistent intermodulation performance guarantees outstanding system sensitivity.
- **Excellent Electrical Performance**
Consistent and repeatable low VSWR improves overall system performance and margin and reduces mismatch losses
- **Totally Waterproof according to IP 68**
Assures safe, long term operation in the harshest of environments.

Technical Specifications

Transmission Line Type	Coaxial Cable
Cable Size	1/2"
Cable Type	Foam Dielectric, Radiating, Air Dielectric
Mating Interface	N
Connector Type	RAPID FIT™
Sealing Method	O-ring
Gender	Male
Plating Outer/Inner	Silver/Silver
Length, mm (in)	58.6 (2.3)
Outer Diameter, mm (in)	22.0 (0.9)
Weight, kg (lb)	0.11 (0.25)
Inner Contact Attachment	Basket
Outer Contact Attachment	Spring Finger
3rd Order IM Product @ 2x20 Watts, dBc	<-156
Maximum Frequency, GHz	6.0
VSWR (Return Loss) for DC < f ≤ 1.0GHz	1.02:1 (40.0 dB)
VSWR (Return Loss) for 1.0 < f ≤ 2.7GHz	1.03:1 (36.6 dB)
VSWR (Return Loss) for 2.7 < f ≤ 3.8GHz	1.08:1 (28.3 dB)
VSWR (Return Loss) for 3.8 < f ≤ 6.0GHz	1.10:1 (26.4 dB)
Wrench size front, mm (in)	24 (15/16)
Wrench size rear, mm (in)	19 (3/4)
Trimming Tool	TRIM-Series-A
Waterproof Level	IP68

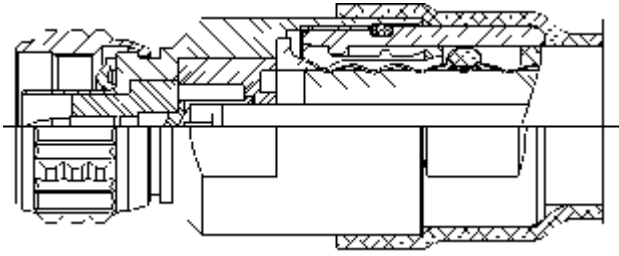
Notes

Other Documentation

Installation Instruction: [M30749E.pdf](#)



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