



N Male Connector for 7/8" 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.



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 66/68**
Assures safe, long term operation in the harshest of environments.

Technical Features

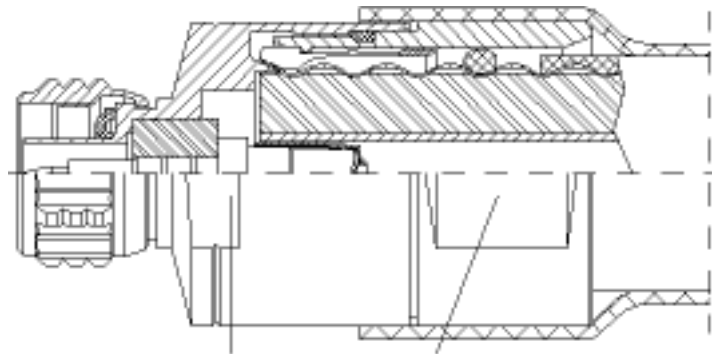
Transmission Line Type	Coaxial Cable
Cable Size	7/8"
Cable Type	Foam Dielectric, Foam Dielectric, Ultraflexible, Radiating
Mating Interface	N
Connector Type	RAPID FIT™
Sealing Method	O-ring
Gender	Male
Plating Outer/Inner	Silver/Silver
Length, mm (in)	65.6 (2.6)

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Outer Diameter, mm (in)	35.0 (1.4)
Weight, kg (lb)	0.15 (0.34)
Inner Contact Attachment	Spring Finger
Outer Contact Attachment	Spring Finger
3rd Order IM Product @ 2x20 Watts, dBc	<-156
Maximum Frequency, GHz	3,7
Trimming Tool	TRIM-Series-A
Waterproof level	IP66 and IP68
Return Loss. min (VSWR. max). dB (VSWR) @ Max. Frequency	See Table Below



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Model Number	Interface	Sealing Method		DC $f \le 1.0 \text{ GHz}$	1.0 $f \le 2.2 \text{ GHz}$	1.0 $f \le 2.7 \text{ GHz}$	2.2 $f \le 2.7 \text{ GHz}$	2.2 $f \le 2.75 \text{ GHz}$	PIM 3rd Order
		P2000	O-ring	VSWR (return loss)	VSWR (return loss)	VSWR (return loss)	VSWR (return loss)	VSWR (return loss)	
7/8" Cables									
716M-LCF78-072	7-16 DIN male		x	1.02:1 (40.0 dB)		1.03:1 (36.5 dB)			≤ 156 dBc
716M-LCF78-076	7-16 DIN male, right angle		x	1.02:1 (40.0 dB)		1.04:1 (34.0 dB)			≤ 156 dBc
716F-LCF78-072	7-16 DIN female		x	1.02:1 (40.0 dB)		1.03:1 (36.5 dB)			≤ 156 dBc
NM-LCF78-072	N male		x	1.02:1 (40.0 dB)		1.03:1 (36.5 dB)			≤ 156 dBc
NF-LCF78-072	N female		x	1.02:1 (40.0 dB)		1.03:1 (36.5 dB)			≤ 156 dBc
716M-LCF78-062	7-16 DIN male	x		1.02:1 (40.0 dB)		1.03:1 (36.5 dB)			≤ 156 dBc
716M-LCF78-066	7-16 DIN male, right angle		x	1.02:1 (40.0 dB)		1.04:1 (34.0 dB)			≤ 156 dBc
716F-LCF78-062	7-16 DIN female	x		1.02:1 (40.0 dB)		1.03:1 (36.5 dB)			≤ 156 dBc
NM-LCF78-062	N male	x		1.02:1 (40.0 dB)		1.03:1 (36.5 dB)			≤ 156 dBc
NF-LCF78-062	N female	x		1.02:1 (40.0 dB)		1.03:1 (36.5 dB)			≤ 156 dBc
1-1/4" Cables									
716M-LCF114-072	7-16 DIN male		x	1.02:1 (40.0 dB)	1.04:1 (34.0 dB)		1.06:1 (30.8 dB)		≤ 156 dBc
716F-LCF114-072	7-16 DIN female		x	1.02:1 (40.0 dB)	1.04:1 (34.0 dB)		1.06:1 (30.8 dB)		≤ 156 dBc
NM-LCF114-072	N male		x	1.02:1 (40.0 dB)	1.04:1 (34.0 dB)		1.06:1 (30.8 dB)		≤ 156 dBc
NF-LCF114-072	N female		x	1.02:1 (40.0 dB)	1.04:1 (34.0 dB)		1.06:1 (30.8 dB)		≤ 156 dBc
716M-LCF114-062	7-16 DIN male	x		1.02:1 (40.0 dB)	1.04:1 (34.0 dB)		1.06:1 (30.8 dB)		≤ 156 dBc
716F-LCF114-062	7-16 DIN female	x		1.02:1 (40.0 dB)	1.04:1 (34.0 dB)		1.06:1 (30.8 dB)		≤ 156 dBc
NM-LCF114-062	N male	x		1.02:1 (40.0 dB)	1.04:1 (34.0 dB)		1.06:1 (30.8 dB)		≤ 156 dBc
NF-LCF114-062	N female	x		1.02:1 (40.0 dB)	1.04:1 (34.0 dB)		1.06:1 (30.8 dB)		≤ 156 dBc
1-5/8" Cables									
716M-LCF158-072	7-16 DIN male		x	1.02:1 (40.0 dB)	1.03:1 (36.5 dB)			1.06:1 (30.8 dB)	≤ 156 dBc
716F-LCF158-072	7-16 DIN female		x	1.02:1 (40.0 dB)	1.03:1 (36.5 dB)			1.06:1 (30.8 dB)	≤ 156 dBc
NM-LCF158-072	N male		x	1.02:1 (40.0 dB)	1.03:1 (36.5 dB)			1.06:1 (30.8 dB)	≤ 156 dBc
NF-LCF158-072	N female		x	1.02:1 (40.0 dB)	1.03:1 (36.5 dB)			1.06:1 (30.8 dB)	≤ 156 dBc
716M-LCF158-062	7-16 DIN male	x		1.02:1 (40.0 dB)	1.03:1 (36.5 dB)			1.06:1 (30.8 dB)	≤ 156 dBc
716F-LCF158-062	7-16 DIN female	x		1.02:1 (40.0 dB)	1.03:1 (36.5 dB)			1.06:1 (30.8 dB)	≤ 156 dBc
NM-LCF158-062	N male	x		1.02:1 (40.0 dB)	1.03:1 (36.5 dB)			1.06:1 (30.8 dB)	≤ 156 dBc
NF-LCF158-062	N female	x		1.02:1 (40.0 dB)	1.03:1 (36.5 dB)			1.06:1 (30.8 dB)	≤ 156 dBc
2-1/4" Cables									
716M-LCF214-070	7-16 DIN male		x	1.02:1 (40.0 dB)	1.06:1 (30.8 dB)*				≤ 156 dBc
716F-LCF214-070	7-16 DIN female		x	1.02:1 (40.0 dB)	1.06:1 (30.8 dB)*				≤ 156 dBc
716M-LCF214-060	7-16 DIN male	x		1.02:1 (40.0 dB)	1.06:1 (30.8 dB)*				≤ 156 dBc
716F-LCF214-060	7-16 DIN female	x		1.02:1 (40.0 dB)	1.06:1 (30.8 dB)*				≤ 156 dBc

*for 1.5-2.2 GHz

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