



7-16 DIN Male Connector for 3/8" Coaxial Cable, RAPID FIT™ Right angle O-ring sealing



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 7-16 connector is the most rugged RF connection meeting all requirements even under severe environmental conditions.

FEATURES / BENEFITS

- ➔ **Waterproof** - The only totally waterproof connector in the industry. Compliant with IP68 water immersion testing. Press fit contact/bead O-ring keeps out moisture and prevents vacuum build-up and air exchange due to temperature swings.
- ➔ **Solderless** - Captivated spring finger contacts permit quick, easy and precise solderless installation utilizing only basic hand tools. Avoids the potential high impedance risk associated with traditional soldering.
- ➔ **Self Flaring** - Self flaring design reduces installation time and thus, saves on labor costs.
- ➔ **Corrosion-Proof Plated Contacts** - Featured even on standard connectors. Provide improved contact resistance and lower intermodulation.
- ➔ **Outstanding Electrical Performance** - Metal to Metal contact between cable and connector - no plastic parts used. Secure connection highly resistant to pull-off or twist-off provides long-term mechanical integrity. Resistant to intermodulation after temperature cycling.
- ➔ **Easy to Install** - No special tools needed. Only basic hand tools required. No additional costs to the installer.

Technical Features

GENERAL SPECIFICATIONS

Transmission Line Type		Coaxial Cable
Cable Size		3/8"
Cable Type		Foam Dielectric Superflexible
Model Series		SCF38-50 Series
Connector Interface		7-16 DIN
Connector Type		Right Angle
Sealing Method		O-ring
Gender		Male

ELECTRICAL SPECIFICATIONS

Nominal Impedance	Ohm	50
Maximum Frequency	GHz	3.7
VSWR, Return Loss	VSWR (dB)	$0 < f \leq 1.0 \text{ GHz: } 1.02 \text{ (40.0)}$ $1.0 < f \leq 2.2 \text{ GHz: } 1.04 \text{ (34.1)}$ $2.2 < f \leq 2.7 \text{ GHz: } 1.06 \text{ (30.7)}$ $2.7 < f \leq 3.7 \text{ GHz: } 1.13 \text{ (24.3)}$

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		Silver/Silver
Length	mm (in)	50 (1.9)
Outer Diameter	mm (in)	31.8 (1.2)
Weight	kg (lb)	0.2 (0.44)
Inner Contact Attachment		Basket
Outer Contact Attachment		Crush Flare

ACCESSORIES

Wrench size front	mm (in)	17 (11/16)
Wrench size rear	mm (in)	19 (3/4)
Trimming Tool		TRIM-Series-A

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
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External Document Links

Notes

Installation Instruction