



## 7-16 DIN Male Connector for 3/8" Coaxial Cable, Straight 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		Straight
Sealing Method		O-ring
Gender		Male

#### ELECTRICAL SPECIFICATIONS

Nominal Impedance	Ohm	50
Maximum Frequency	GHz	3.7
VSWR, Return Loss	VSWR (dB)	0 < f ≤ 1.0 GHz: 1.02 (40.0) 1.0 < f ≤ 2.7 GHz: 1.03 (36.6) 2.7 < f ≤ 3.7 GHz: 1.06 (30.7)

#### MECHANICAL SPECIFICATIONS

Plating Outer/Inner		Silver/Silver
Length	mm (in)	47 (1.9)
Outer Diameter	mm (in)	37 (1.5)
Weight	kg (lb)	0.11 (0.24)
Inner Contact Attachment		Basket
Outer Contact Attachment		Spring Finger

#### 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