

# 7/8" EIA Connector for 1/2" Coaxial Cable, RAPID FIT™ Sealing compound

Radio Frequency Systems' line of high performance coaxial cable connectors are designedspecifically to provide the highest quality connector-cable interface while simplifying and speeding upthe attachment of connectors to CELLFLEX® coaxial cables. RFS Technologies connectors are fully tested formechanical and electrical compliance specifications. They are available in all popular cable sizes in avariety of mating interfaces. To join two cables with EIA connectors, two identical socket connectorsare installed on either end of the cables to be joined, and a coupling element is used to make theconnection of the center conductor. The coupling element must be ordered separately. Connectors are available in sizes matching the nominal cable size. EIA connectors provide optimal power handlingfor the complete transmission line system.



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 features**

### **GENERAL SPECIFICATIONS**

Transmission Line Type	Coaxial Cable
Cable Size	1/2"
Cable Type	Foam Dielectric
Connector Interface	7/8" EIA
Connector Type	RAPID FIT™
Sealing Method	Sealing compound <sup>1</sup> )
Gender	None

## **ELECTRICAL SPECIFICATIONS**

3rd Order IM Product @ 2x20 Watts	dBc	-156
Maximum Frequency	GHz	3.7
VSWR, Return Loss	VSWR (dB)	0 < f ≤ 1.0 GHz: 1.02 (40.1) 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)	85 (3.4)
Outer Diameter	mm (in)	57.2 (2.3)
Inner Contact Attachment		Self Tapping
Outer Contact Attachment		Spring Finger

**78EIA-LCF12-060** REV : E REV DATE : 13 May 2016 **www.rfstechnologies.com** 



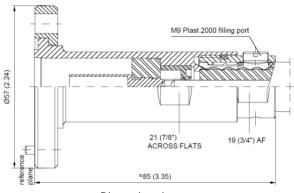
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# **ACCESSORIES**

Wrench size front	mm (in)	21 (7/8")
Wrench size rear	mm (in)	19 (3/4")
Trimming Tool		TRIM-SET-L12-D01 but with special handling

## **TESTING AND ENVIRONMENTAL**

Waterproof Level		IP68
Sealing Volume, cm3 (ounces)	cm³ (ounces)	5 (0.18)



Dimensions in mm

# External Document Links Installation Instruction

# Notes

<sup>1</sup>) The sealing compound must be ordered separately.

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