

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

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 Technologies connectors are fully tested for mechanical and electrical compliance specifications. They are available in all popular cable sizes in a variety of mating interfaces. To join two cables with EIA connectors, two identical socket connectors are installed on either end of the cables to be joined, and a coupling element is used to make the connection of the center conductor. The coupling element must be ordered separately with the exception of the S-Line male versions that have a captivated coupling element. Connectors are available in sizes matching the nominal cable size. EIA connectors provide optimal power handling for the complete transmission line system.

RAPID FIT

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.

External Document Links

Notes

Installation Instruction ¹) The sealing compound must be ordered separately.

Technical features

GENERAL SPECIFICATIONS

Transmission Line Type	Coaxial Cable
Cable Size	7/8
Cable Type	Foam Dielectric
Model Series	LCF78-50A-Series, RCF78-50A-Series
Connector Interface	7/8" EIA
Connector Type	RAPID FIT™
Sealing Method	Sealing compound ¹)
Gender	None

ELECTRICAL SPECIFICATIONS

3rd Order IM Product @ 2x20 Watts	dBc	<-156
Maximum Frequency	GHz	3.7
VSWR, Return Loss	VSWR (dB)	0 < $f \le 1.0$ GHz: 1.02 (40) 1.0 < $f \le 2.7$ GHz: 1.04 (34.1) 2.7 < $f \le 3.7$ GHz: 1.06 (30.7)

78EIA-LCF78-062 REV : E REV DATE : 13 May 2016 **www.rfstechnologies.com**

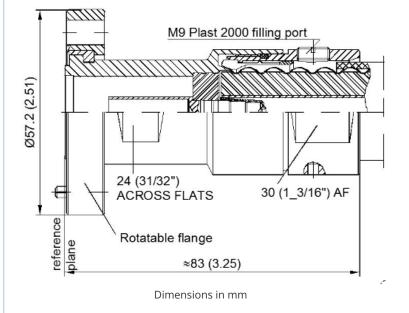


Sealing Volume, cm3 (ounces)

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MECHANICAL SPECIFICATIONS				
Plating Outer/Inner		Silver/Silver		
Length	mm (in)	83 (3.3)		
Outer Diameter	mm (in)	57.2 (2.3)		
Inner Contact Attachment		Self Tapping		
Outer Contact Attachment		Spring Finger		
ACCESSORIES				
Wrench size front	mm (in)	30 (1-3/16)		
Wrench size rear	mm (in)	30 (1-3/16)		
Trimming Tool		TRIM-Series-A		
TESTING AND ENVIRONMENTAL				
Waterproof Level		IP68		

7 (0.26)



cm³ (ounces)

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