1-5/8" EIA Connector for 1-5/8" 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 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

Installation Instruction

Notes

¹) The sealing compound must be ordered separately.

Technical features

GENERAL SPECIFICATIONS			
Transmission Line Type		Coaxial Cable	
Cable Size		1-5/8	
Cable Type		Foam Dielectric	
Model Series		LCF158-50	RCF158-50
Connector Interface		1-5/8" 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	2.75	
VSWR, Return Loss	VSWR (dB)	0 < f ≤ 1.0 GHz: 1.02 (40) 1.0 < f ≤ 2.7 GHz: 1.04 (34.1) 2.7 < f ≤ 3.7 GHz: 1.06 (30.7)	

MECHANICAL SPECIFICATIONS

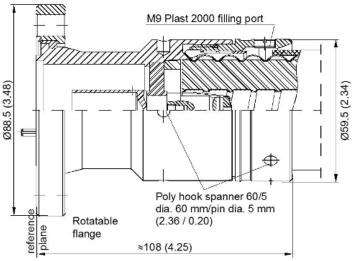
Plating Outer/Inner		Silver/Silver
Length	mm (in)	108 (4.3)
Outer Diameter	mm (in)	88.5 (3.5)
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		Spring Finger

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ACCESSORIES		
Wrench size front	mm (in)	Poly Hook Spanner Wrench
Wrench size rear	mm (in)	Poly Hook Spanner Wrench
Trimming Tool		TRIM-Series-A
TESTING AND ENVIRONMENTAL		

Waterproof Level		IP68
Sealing Volume, cm3 (ounces)	cm³ (ounces)	20 (0.68)



Dimensions in mm

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