

**158EIA-LCF158-062**

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.

Feature / 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.
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis

Technical features**GENERAL SPECIFICATIONS**

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⁾	

TESTING AND ENVIRONMENTAL

Waterproof Level	IP68
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MECHANICAL SPECIFICATIONS

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

ELECTRICAL SPECIFICATIONS

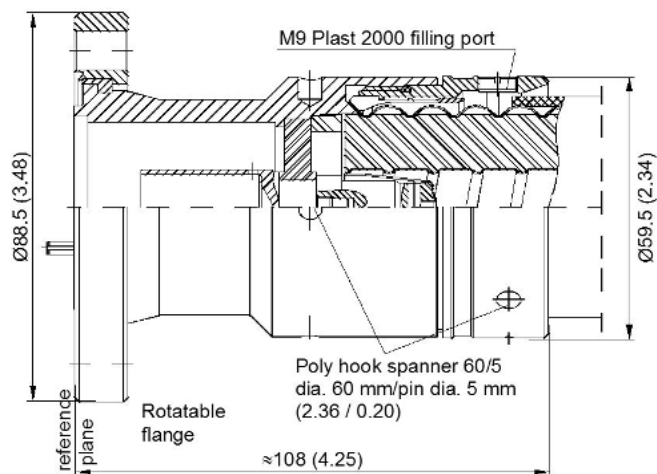
3rd Order IM Product @ 2x20 Watts	<-156	
Maximum Frequency	2.75 GHz	
Frequency Range	VSWR value	Return Loss value
0 < f ≤ 1.0 GHz	1.02	40
1.0 < f ≤ 2.7 GHz	1.04	34.1
2.7 < f ≤ 3.7 GHz	1.06	30.7

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ACCESSORIES**Trimming Tool**

TRIM-Series-A

**External Document Links****Notes**¹⁾ The sealing compound must be ordered separately.