78EIA-LCF78-062

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 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™ 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		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 ≤ 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

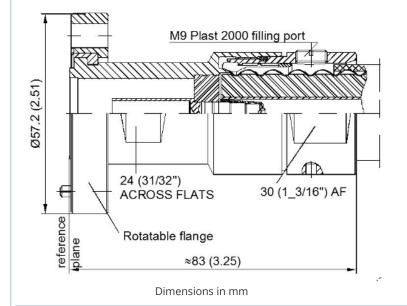|		
Plating Outer/Inner		Silver/Silver
Length	mm (in)	83 (3.3)
Outer Diameter	mm (in)	57.2 (2.3)
Inner Contact Attachment		Self Tapping
Outer Contact Attachment		Spring Finger

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
Sealing Volume, cm3 (ounces)	cm³ (ounces)	7 (0.26)

M9 Plast 2000 filling port

Ø57.2 (2.51)

24 (31/32") ACROSS FLATS

30 (1_3/16") AF

Rotatable flange

≈83 (3.25)

reference plane

Dimensions in mm

External Document Links

Installation Instruction

Notes

[1]) The sealing compound must be ordered separately.