7/8" EIA Connector for 7/8" Coaxial Cable, Gas pass, Sealing compound

RFS Technologies line of high performance air dielectric coaxial cable connectors are characterized by excellent gas tightness and extremely low losses. Air Dielectric Cable Lite connectors can be installed with basic hand tools, but the use of dedicated installation tools further facilitates ease of assembly and improves performance.

RFS Technologies connectors are fully tested for mechanical and electrical compliance specifications.

Air Dielectric Cable Lite premium connectors have excellent electrical values and provide outstanding performance for the most demanding applications. The RFS Technologies connector design provides maximum sealing integrity and gas tightness.

# FEATURES / BENEFITS

- Lightweight
- Excellent gas tightness, Overpressure for increased voltage handling is maintained throughout
- Robust Mechanical Design, Superior and consistent performance guarantees outstanding system characteristics.
- Extremely low reflection factor, Outstanding low reflection factor improves overall system performance and margin and reduces mismatch losses
- Totally Waterproof according to IP 66 / 68, Assures safe, long term operation in the harshest of environments. System tightness doesn't have to rely on overpressure from dehydration equipment.
- Easy to install, no special tools needed. Only basic hand tools required. No additional cost to the
- RoHs (EU) and CRoHs (China) compliant, can be used on a global basis.



Connector EIA 7/8"

# **Technical features**

## **GENERAL SPECIFICATIONS**

Transmission Line Type	Coaxial Cable		
Cable Size	7/8"		
Cable Type	Air Dielectric		
Model Series	HCA78-50 Series		
Connector Interface	7/8" EIA		
Connector Type	Gas pass		
Sealing Method	Sealing compound <sup>1</sup> )		
Gender	Female		

### **ELECTRICAL SPECIFICATIONS**

Insertion loss	dB	< 0.05dB	
VSWR, Return Loss	VSWR (dB)	0 <f (40)<br="" 1.0="" 1.02="" ghz:="" ≤="">1.0 <f (36.6)<br="" 1.03="" 2.3="" ghz:="" ≤="">2.3 <f (30.7)<="" 1.06="" 3.0="" ghz:="" th="" ≤=""></f></f></f>	

Discontinued product 78EIA-HCA78-

REV: F

REV DATE: 09 Apr 2024

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# Discontinued product 78EIA-HCA78-009

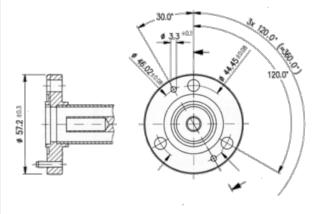
7/8" EIA Connector for 7/8" Coaxial Cable, Gas pass, Sealing compound

# **MECHANICAL SPECIFICATIONS**

Plating Outer/Inner		Silver/Silver	
Length	mm (in)	98 (3.85)	
Outer Diameter	mm (in)	57.2 (2.25)	
Inner Contact Attachment		Threaded	
Outer Contact Attachment		Tab Flare	

# **TESTING AND ENVIRONMENTAL**

Waterproof Level		IP66	IP68
Sealing Volume, cm3 (ounces)	cm³ (ounces)	8 (0.27)	



**External Document Links** Installation Instruction

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.

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

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