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

Radio Frequency Systems line of high performance HELIFLEX® coaxial cable connectors are characterized by excellent gas tightness and extremely low losses. HELIFLEX®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 connectors are fully tested for mechanical and electrical compliance specifications. HELIFLEX®Lite premium connectors have excellent electrical values and provide outstanding performance for the most demanding applications. The RFS connector design provides maximum sealing integrity and gas tightness.

FEATURES / BENEFITS

- Lightweight
- Excellent gas tightness, Overpressure for increased voltage handling is maintained throughout the system.
- 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 installer.
- 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 ¹)		
Gender	Female		

ELECTRICAL SPECIFICATIONS

Insertion loss	dB	0.05dB
VSWR, Return Loss	VSWR (dB)	$0 < f \le 1.0 \text{ GHz: } 1.02 \text{ (40)}$ $1.0 < f \le 2.3 \text{ GHz: } 1.03 \text{ (36.6)}$ $2.3 < f \le 3.0 \text{ GHz: } 1.06 \text{ (30.7)}$

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

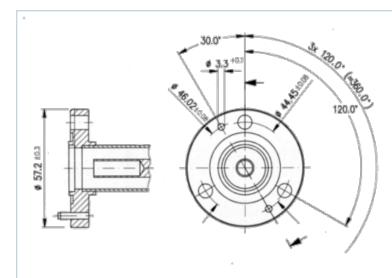
TESTING AND ENVIRONMENTAL

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

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External Document Links Installation Instruction

Notes

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.

¹) The sealing compound must be ordered separately.

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