1-5/8" EIA Connector for 1-5/8" Coaxial Cable, Gas stop, 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.

Feature / 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
- 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.

Technical features

GENERAL SPECIFICATIONS

Cable Size	1-5/8"	
Cable Type	Air Dielectric	
Model Series	HCA158-50 Series	
Connector Interface	1-5/8" EIA	
Connector Type	Gas stop / pass	
Sealing Method	Sealing compound ¹)	

TESTING AND ENVIRONMENTAL

Waterproof Level	IP66
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MECHANICAL SPECIFICATIONS

Plating Outer/Inner	Silver/Silver	
Length	135mm (5.3in)	
Outer Diameter	89mm (3.5in)	
Inner Contact Attachment	Threaded	
Outer Contact Attachment	Tab Flare	

ELECTRICAL SPECIFICATIONS

Frequency Range	VSWR value	Return Loss value
0 <f 1.0="" ghz<="" th="" ≤=""><th>1.02</th><th>40</th></f>	1.02	40
1.0 <f 2.7="" ghz<="" th="" ≤=""><th>1.06</th><th>30.7</th></f>	1.06	30.7

External Document Links

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.

158EIA-HCA158-009 REV: D **REV DATE: 15 Nov 2025** www.rfsworld.com