



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 HELIFLEX® 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 and sealing compound must be ordered separately. Connectors are available in sizes matching the nominal cable size. EIA connectors provide optimal power handling for the complete transmission line system.

**FEATURES / BENEFITS**

- Solderless - Captivated spring finger contacts permit quick, easy and precise solderless installation utilizing only basic hand tools. Avoids the high impedance risk associated with soldering.
- Corrosion-Proof Silver Plated Contacts - Featured even on standard connectors. Provide improved contact resistance and lower intermodulation.
- Outstanding Electrical Performance - Metal to Metal contact between cable and connector - no plastic parts used. Secure connection highly resistant to pull-off or twist-off provides long-term mechanical integrity. Resistant to intermodulation after temperature cycling.
- Easy to Install - No special tools needed. Only basic hand tools required. No additional costs to the installer.
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis



Connector 7/8" EIA

**Technical features****GENERAL SPECIFICATIONS**

Transmission Line Type		Coaxial Cable
Cable Size		1-5/8"
Cable Type		Air Dielectric
Model Series		HCA158-50 Series
Connector Interface		7/8" EIA
Connector Type		Gas Barrier
Sealing Method		Silicone compound PLAST 2000
Gender		None

**ELECTRICAL SPECIFICATIONS**

VSWR, Return Loss	VSWR (dB)	DC to 1000 MHz: 1.02 (40) 1000 to 2700 MHz: 1.06 (30.7)
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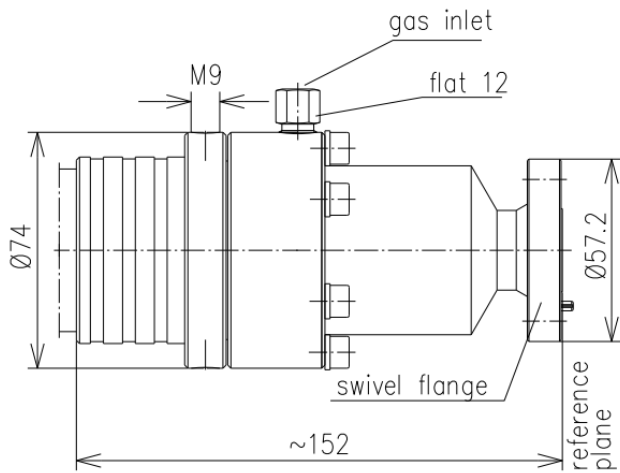
**MECHANICAL SPECIFICATIONS**

Plating Outer/Inner		silver-plated / silver-plated
Length	mm (in)	152 (5.984)
Outer Diameter	mm (in)	74 (2.913)
Weight	kg (lb)	1.8 (3.968)
Body Material		Copper-alloy
Inner Contact Material		Copper-alloy
Inner Contact Attachment		Threaded
Outer Contact Attachment		Tab Flare



## 78EIA-HCA158-001

7/8" EIA Connector for 1-5/8" Coaxial Cable, Gas Barrier, Plast 2000 sealing



### External Document Links

[installation instruction 78eia-hca158-001 m30589.pdf](#)

### Notes

Sealing compound must be ordered separately  
Coupling element must be ordered separately