

**78EIA-HCA158-001**

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



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

Technical Features**STRUCTURE**

Cable Type	Air Dielectric
Cable Size	1-5/8"
Model Series	HCA158-50 Series
Connector Interface Size	7/8" EIA

MECHANICAL SPECIFICATIONS

Connector Length	152mm (5.984in)
Connector Outer Diameter	74mm (2.913in)
Sealing Volume	20cm ³ (0.676ounces)
Inner Conductor Material / Coating	Copper-alloy / Silver
Outer Conductor Material / Coating	Copper-alloy / Silver
Sealing Volume	20cm ³ (0.676ounces)
Sealing Method	Silicone compound PLAST 2000



78EIA-HCA158-001

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

ELECTRICAL SPECIFICATIONS

Nominal Impedance	50 Ω	
Connector Frequency Range	0 -2.7 GHz	
Frequency Range	VSWR	Return Loss
DC to 1000 MHz	1.02	40
1000 to 2700 MHz	1.06	30.7

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

Related Documents

 **m30589_h.pdf**
Installation Instructions