

**158EIA-HCA118-001**

1-5/8" EIA Female Connector for 1-1/8" Coaxial Cable, Gas barrier, Sealing compound

 158eia-hca118-001.png

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 must be ordered separately with the exception of the S-Line male versions that have a captivated coupling element. Connectors are available in sizes matching the nominal cable size. EIA connectors provide optimal power handling for the complete transmission line system.;

Features / Benefits

- 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 68, Assures safe, long term operation in the harshest of environments. System tightness doesn't have to rely on overpressure from dehydration equipment.
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis

Technical Features**STRUCTURE**

Cable Type	Air Dielectric
Cable Size	1-1/8"
Model Series	HCA118-50 Series
Connector Interface Size	1-5/8" EIA

MECHANICAL SPECIFICATIONS

Connector Length	128mm (5.04in)
Connector Outer Diameter	59mm (2.32in)
Sealing Volume	10cm ³ (0.338ounces)
Inner Conductor Material / Coating	Copper-alloy / Silver
Outer Conductor Material / Coating	Copper-alloy / Silver
Sealing Volume	10cm ³ (0.338ounces)
Sealing Method	Sealing compound ¹)



158EIA-HCA118-001

1-5/8" EIA Female Connector for 1-1/8" Coaxial Cable, Gas barrier, Sealing compound

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	1) The sealing compound must be ordered separately.	

Related Documents

 **m30311_i.pdf**
Installation Instructions