

**412EIA-HCA550-001****4-1/2" IEC Female Connector for 5-1/2" Coaxial Cable, Gas barrier, Sealing compound** 412eia-hca418-001.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 IEC 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. IEC 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	5-1/2"
Model Series	HCA495-50 Series
Connector Interface Size	4-1/2" EIA (50 Ω) per IEC 60339-2

MECHANICAL SPECIFICATIONS

Connector Length	300mm (11.81in)
Connector Outer Diameter	212mm (8.35in)
Sealing Volume	120cm ³ (4.058ounces)
Inner Conductor Material / Coating	Copper-alloy / Silver
Outer Conductor Material / Coating	Copper-alloy / Silver
Sealing Volume	120cm ³ (4.058ounces)
Sealing Method	Sealing compound ¹)

ELECTRICAL SPECIFICATIONS

Nominal Impedance	50 Ω	
Connector Frequency Range	0 - 0.86 GHz	
Frequency Range	VSWR	Return Loss
DC - 860MHz	1.02	40



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Note

¹⁾ The sealing compound must be ordered separately.

Related Documents



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Installation Instructions