



158EIA-HCA158-009

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.

Features / 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 characteristics.
- 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

STRUCTURE

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

MECHANICAL SPECIFICATIONS

Connector Length	135mm (5.3in)
Connector Outer Diameter	89mm (3.5in)
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	Sealing compound ¹)

ELECTRICAL SPECIFICATIONS

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

TESTING AND ENVIRONMENTAL

Ingress Protection (IP) Rating	IP66
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Note

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.

Related Documents



Installation Instruction

Installation Instructions