



618EIA-HCA618-002

618" EIA Connector for 6-1/8" Coaxial Cable, Gas stop / Gas pass, Silicone Sealing



Radio Frequency Systems line of high performance HELIFLEX® coaxial cable connectors are characterized by excellent gas tightness and extremely low losses. HELIFLEX® 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® 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

- Easy installation utilizing only basic hand tools.
- Tab flare of outer contact attachment means quick and simple installation.
- No need for sealing compound. The connector is ready for pressurization immediately after installed to the cable.
- Excellent gas tightness. Overpressure for increased voltage handling is maintained throughout the system.
- Outstanding VSWR performance improves overall system performance.
- Totally waterproof, assures safe, long term operation in the harshest of environments.
- RoHS (EU) and CROHS (China) compliant, can be used on a global basis.

Technical Features

STRUCTURE

Cable Type	Air Dielectric
Cable Size	6-1/8"
Model Series	HCA618-50 Series
Connector Interface Size	6-1/8" EIA (50 Ω) per IEC 60339-2

MECHANICAL SPECIFICATIONS

Connector Length	312mm (12.283in)
Connector Outer Diameter	219mm (8.622in)
Sealing Volume	300cm³ (10.144ounces)
Inner Conductor Material / Coating	Copper-alloy / Silver
Outer Conductor Material / Coating	Copper-alloy / Silver
Sealing Volume	300cm³ (10.144ounces)
Sealing Method	Silicone compound, PLAST 2000 - See Note 2.

ELECTRICAL SPECIFICATIONS

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

TESTING AND ENVIRONMENTAL

Ingress Protection (IP) Rating	IP68 (pressure-tight up to 4 bar / 400 kPa)
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ACCESSORIES

Poly Hook Spanner	230 8
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Note	1.	The connector is converted to gas pass by drilling through the pilot hole in the insulator.
	2.	Sealing compound must be ordered separately.
	3.	Connector does not include an inner connector.

Related Documents



Installation instruction for HCA 412 500 618 *-002 connector series
Installation Instructions