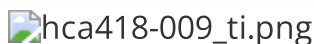


**412IEC-HCA550-019**

4-1/2" EIA Connector for 5-1/2" Coaxial Cable, Gas stop / Gas pass, O-Ring Sealing



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

- 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	5-1/2"
Model Series	HCA550-50 Series
Connector Interface Size	4-1/2" EIA (50 Ω) per IEC 60339-2

MECHANICAL SPECIFICATIONS

Connector Length	254.2mm (10.008in)
Connector Outer Diameter	212mm (8.346in)
Inner Conductor Material / Coating	Copper-alloy / Silver
Outer Conductor Material / Coating	Copper-alloy / Silver
Sealing Method	O-ring

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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Note

1. The connector is converted to gas pass by drilling through the pilot hole in the insulator.
2. Connector does not include an inner connector.
3. Gas inlet: NPT1/8"
4. Peak power capability: 2250 kW
5. Average power capability (at 40°C ambient temperature): 37.0 kW @ 860 MHz
6. Proof voltage, max.:15.0 kV

Related Documents



Installation instruction for HCA495 / HCA550 / HCA618 *-019 connector series
Installation Instructions