



Radio Frequency Systems line of high performance Air Dielectric Cable coaxial cable connectors are characterized by excellent gas tightness and extremely low losses. Air Dielectric CableLite connectors can be installed with basic hand tools, but the use of dedicated installation tools further facilitates ease of assembly and improves performance.

RFS Technologies connectors are fully tested for mechanical and electrical compliance specifications.

Air Dielectric CableLite premium connectors have excellent electrical values and provide outstanding performance for the most demanding applications. The RFS Technologies 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.



External Document Links

Installation instructions_hca495-hca618.pdf

Notes

- 1) The connector is converted to gas pass by drilling through the pilot hole in the insulator.
2) Connector model with -019KT suffix denote connectors that are supplied with an inner connector and flange hardware. Connector model -019 does not include an inner connector and flange hardware.
Gas inlet: NPT1/8"
Peak power capability: 2890 kW
Average power capability (at 40°C ambient temperature): 56.9 kW @ 860 MHz
Proof voltage, max.:15.0 kV

Technical features

GENERAL SPECIFICATIONS

Table with 3 columns: Specification Name, Value, and Unit. Rows include Transmission Line Type (Coaxial Cable), Cable Size (6-1/8"), Cable Type (Air Dielectric), Model Series (HCA618-50 Series), Connector Interface (6-1/8" EIA (50 Ohm) per IEC 60339-2), Connector Type (Gas stop / Gas pass - See Note 1), Sealing Method (Silicone rubber), and Gender (Female - See Note 2).

ELECTRICAL SPECIFICATIONS

Table with 3 columns: Specification Name, Value, and Unit. Row: VSWR, Return Loss (VSWR (dB) DC - 860 MHz: 1.02 (40)).



MECHANICAL SPECIFICATIONS

Plating Outer/Inner		Silver
Length	mm (in)	284.6 (11.205)
Outer Diameter	mm (in)	227 (8.937)
Weight	kg (lb)	21 (46.297)
Body Material		copper alloy / nickel plated
Inner Contact Material		copper alloy / silver plated

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
STORAGE TEMPERATURE	°C (°F)	-70 to 85 (-94 to 185)
OPERATION TEMPERATURE	°C (°F)	-40 to 85 (-40 to 185)

