



RFS Technologies line of high performance Air Dielectric Cable coaxial cable connectors are characterized by excellent gas tightness and extremely low losses. Air Dielectric Cable 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 Technologies connectors are fully tested for mechanical and electrical compliance specifications.

Air Dielectric Cable Lite 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.



Connector 4-1/2" IEC

**Technical features**

**GENERAL SPECIFICATIONS**

|                               |  |                                   |
|-------------------------------|--|-----------------------------------|
| <b>Transmission Line Type</b> |  | Coaxial Cable                     |
| <b>Cable Size</b>             |  | 5"                                |
| <b>Cable Type</b>             |  | Air Dielectric                    |
| <b>Model Series</b>           |  | HCA495-50 Series                  |
| <b>Connector Interface</b>    |  | 4-1/2" EIA (50 Ω) per IEC 60339-2 |
| <b>Connector Type</b>         |  | Gas stop / Gas pass - See Note 1) |
| <b>Sealing Method</b>         |  | silicone rubber                   |
| <b>Gender</b>                 |  | Female - See Note 2)              |

**ELECTRICAL SPECIFICATIONS**

|                          |           |                           |
|--------------------------|-----------|---------------------------|
| <b>VSWR, Return Loss</b> | VSWR (dB) | 0 <f ≤ 860 MHz: 1.02 (40) |
|--------------------------|-----------|---------------------------|

**MECHANICAL SPECIFICATIONS**

|                               |         |                              |
|-------------------------------|---------|------------------------------|
| <b>Plating Outer/Inner</b>    |         | silver                       |
| <b>Length</b>                 | mm (in) | 205.9 (8.071)                |
| <b>Outer Diameter</b>         | mm (in) | 176.6 (6.929)                |
| <b>Weight</b>                 | kg (lb) | 10 (22.046)                  |
| <b>Body Material</b>          |         | copper alloy / nickel plated |
| <b>Inner Contact Material</b> |         | copper alloy / silver plated |

**TESTING AND ENVIRONMENTAL**

|                         |  |      |
|-------------------------|--|------|
| <b>Waterproof Level</b> |  | IP68 |
|-------------------------|--|------|

[External Document Links](#)

[Notes](#)



**412IEC-HCA495-019**

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

- 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.