



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. Tab flare of outer connection and use of o-ring sealing simplifies installation of the connector.

RFS connectors are fully tested for mechanical and electrical compliance to specifications. HELIFLEX® 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.



318EIA Connector for HCA300 Cable

Technical features

GENERAL SPECIFICATIONS

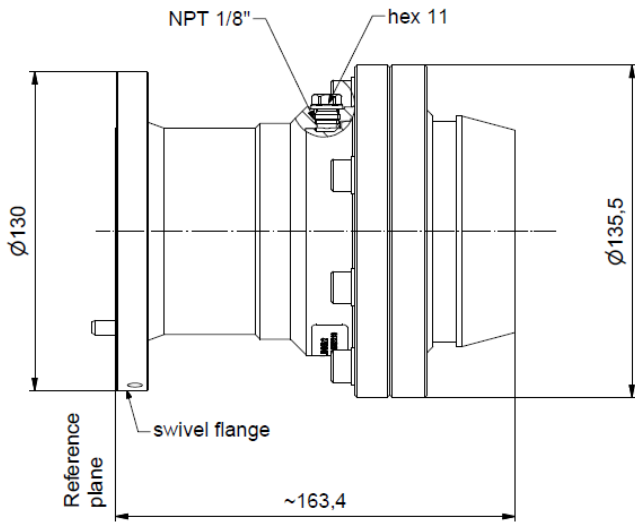
| | | |
|------------------------|--|----------------------------------|
| Transmission Line Type | | Coaxial Cable |
| Cable Size | | 3" |
| Cable Type | | Air Dielectric |
| Model Series | | HCA300-50 Series |
| Connector Interface | | 3-1/8" EIA |
| Connector Type | | Gas stop /Gas pass - See Note 1) |
| Sealing Method | | O-ring seal |
| Gender | | Female - See Note 2) |

ELECTRICAL SPECIFICATIONS

| | | |
|-------------------|-----------|--|
| Insertion loss | dB | < 0.05dB |
| VSWR, Return Loss | VSWR (dB) | 0 <f ≤ 860 MHz: 1.02 (40) 860 MHz <f ≤ 1.5 GHz: 1.05 (32) |

MECHANICAL SPECIFICATIONS

| | | |
|--------------------------|---------|------------------|
| Plating Outer/Inner | | Tri Plate/Silver |
| Length | mm (in) | 164 (6.45) |
| Outer Diameter | mm (in) | 136 (5.35) |
| Outer Contact Attachment | | Tab Flare |



318EIA-HCA300-019 connector, dimensions in mm

External Document Links

[Installation Instruction](#)

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.