



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 flange 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 HCA400 Cable

**Technical features****GENERAL SPECIFICATIONS**

|                        |  |                                  |
|------------------------|--|----------------------------------|
| Transmission Line Type |  | Coaxial Cable                    |
| Cable Size             |  | 4"                               |
| Cable Type             |  | Air Dielectric                   |
| Model Series           |  | HCA400-50 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**

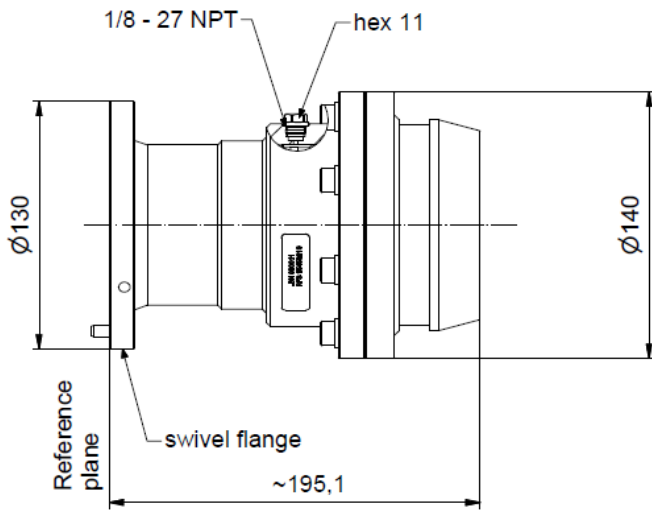
|                   |           |           |
|-------------------|-----------|-----------|
| Insertion loss    | dB        | < 0.05dB  |
| VSWR, Return Loss | VSWR (dB) | 0 860 MHz |

**MECHANICAL SPECIFICATIONS**

|                          |         |                  |
|--------------------------|---------|------------------|
| Plating Outer/Inner      |         | Tri Plate/Silver |
| Length                   | mm (in) | 195 (7.7)        |
| Outer Diameter           | mm (in) | 140 (5.5)        |
| Outer Contact Attachment |         | Tab Flare        |

**318EIA-HCA400-019**

3-1/8" EIA Connector for 4" Coaxial Cable, Gas stop/ Gas pass,O-Ring Sealing



318EIA-HC400-019 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 does not include an inner connector.