PRODUCT DATASHEET

318EIA-HCA495-001

3-1/8" EIA Connector for 5" Coaxial Cable, Gas stop/pass, Sealing compound

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.



Connector 3-1/8" EIA

FEATURES / BENEFITS

- Lightweight
- Excellent gas tightness, Overpressure for increased voltage handling is maintained throughout the system.
- Robust Mechanical Design, Superior and consistent performance guarantees outstanding system characteristics.
- Extremely low reflection factor, Outstanding low reflection factor improves overall system performance and margin and reduces mismatch losses
- Totally Waterproof according to IP 66 / 68, Assures safe, long term operation in the harshest of environments. System tightness doesn't have to rely on overpressure from dehydration equipment.
- Easy to install, no special tools needed. Only basic hand tools required. No additional cost to the installer.
- RoHs (EU) and CRoHs (China) compliant, can be used on a global basis.

Technical features

GENERAL SPECIFICATIONS

Transmission Line Type		Coaxial Cable
Cable Size		5"
Cable Type		Air Dielectric
Model Series		HCA495-50 Series
Connector Interface		3-1/8" EIA
Connector Type		Gas stop /pass
Sealing Method		Sealing compound [1])
Gender		Female

ELECTRICAL SPECIFICATIONS

Insertion loss	dB	< 0.05dB
VSWR, Return Loss	VSWR (dB)	0 <f ≤ 860 MHz: 1.02 (40)

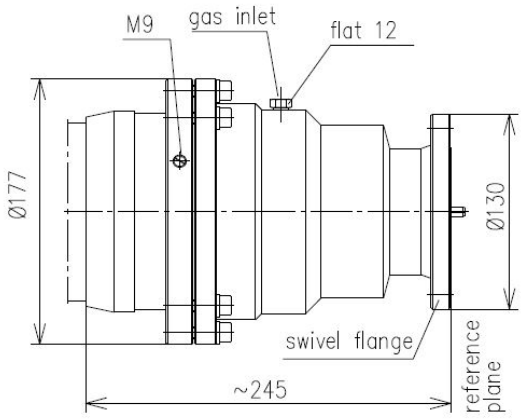
MECHANICAL SPECIFICATIONS

Plating Outer/Inner		Silver/Silver
Length	mm (in)	245 (9.646)
Outer Diameter	mm (in)	177 (6.968)
Inner Contact Attachment		Threaded
Outer Contact Attachment		Tab Flare

All values nominal unless tolerances provided; information contained in the present datasheet is subject to confirmation at time of ordering

TESTING AND ENVIRONMENTAL

Waterproof Level		IP66	IP68
Sealing Volume, cm3 (ounces)	cm^3 (ounces)	70 (2.37)	



318EIA-HCA495_DRW

External Document Links

Notes

To join two cables with EIA connectors, two identical socket connectors are installed on either end of the cables to be joined, and a coupling element is used to make the connection of the center conductor.

The coupling element must be ordered separately.

[1]) The sealing compound must be ordered separately.

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