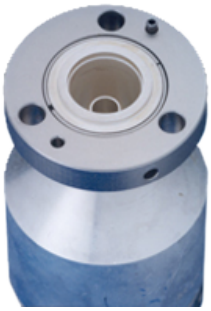
PRODUCT DATASHEET

78EIA-HCA78-020

7/8" EIA Connector for 7/8" Air Cable, Gas Stop/Pass, Compound Sealing

These high performance coaxial cable connectors are designed specifically to provide the highest quality connector-cable interface while simplifying and speeding up the attachment of connectors to air dielectric coaxial cables. The connectors are fully tested for mechanical and electrical compliance specifications. They are available in all popular cable sizes in a variety of mating interfaces. EIA connectors provide optimal power handling for the complete transmission line system.
Connectors are available in sizes matching the nominal cable size. To join two EIA connectors, a coupling element is used to make the connection of the center conductor. The coupling element has to be ordered separately.



Connector EIA 7/8"

FEATURES / BENEFITS

- Excellent gas tightness
- 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
- Waterproof rates at IP68, ensuring safe, long term operation in the harshest of environments.

Technical features

GENERAL SPECIFICATIONS

Transmission Line Type		Coaxial Cable
Cable Size		7/8
Cable Type		Air Dielectric
Model Series		HCA78-50 Series
Connector Interface		7/8" EIA
Connector Type		Gas Stop. Can be converted to gas pass type by drilling through the insulation. One-piece design.
Sealing Method		Sealing Compound [1])
Gender		Female

ELECTRICAL SPECIFICATIONS

Nominal Impedance, ohms	Ohm	50
Connector Frequency Range	GHz	DC to 3 GHz
VSWR, Return Loss	VSWR (dB)	DC to 1.0GHz: 1.02 (40) 1.0GHz to 2.0GHz: 1.03 (36.6) 2.0GHz to 3.0GHz: 1.06 (30.7)

MECHANICAL SPECIFICATIONS

Plating Outer/Inner		Silver/Silver
Length	mm (in)	91 (3.58)
Outer Diameter	mm (in)	57.2 (2.25)
Weight	kg (lb)	0.6 (1.3)
Body Material		Copper Alloy
Inner Contact Material		Copper Alloy
Inner Contact Attachment		Spring Finger
Outer Contact Attachment		Threaded
Gas Inlet		Female, M10x0.75

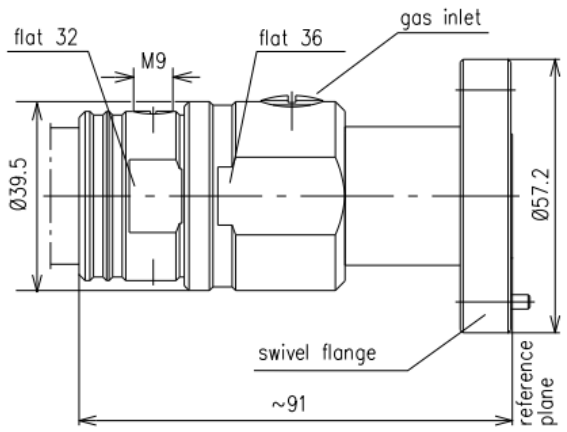
All values nominal unless tolerances provided; information contained in the present datasheet is subject to confirmation at time of ordering

ACCESSORIES

Wrench size front	mm (in)	36 (1-7/16)
Wrench size rear	mm (in)	32 (1-1/4)

TESTING AND ENVIRONMENTAL

Sealing Volume, cm3 (ounces)	cm^3 (ounces)	5 (0.17)



Connector Outline Drawing, dimensions in mm

External Document Links
Installation Instruction

Notes
[1]) The sealing compound must be ordered separately, model name is P2000-001

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