

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.

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.



Connector EIA 7/8"

Technical features

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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
		DC to 1.0GHz: 1.02 (40)
VSWR, Return Loss	VSWR (dB)	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

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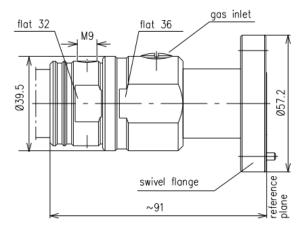


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ACCESSORIES Wrench size front mm (in) 36 (1-7/16) Wrench size rear 32 (1-1/4) mm (in)

TESTING AND ENVIRONMENTAL

cm³ (ounces) Sealing Volume, cm3 (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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