



These high-performance air dielectric coaxial cable connectors are characterized by excellent gas tightness and extremely low losses. The connectors can be installed with basic hand tools. Tab flange of outer connection and use of o-ring sealing simplifies installation of the connector. The connectors are fully tested for mechanical and electrical compliance to specifications. The connectors have excellent electrical values and provide outstanding performance for the most demanding applications. The connector design provides maximum sealing integrity and gas tightness.

**FEATURES / BENEFITS**

- Easy installation utilizing only basic hand tools. No need for sealing compound further simplify the process.
- 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.



78EIA Connector for HCA78 Cable

**Technical features**

**GENERAL SPECIFICATIONS**

<b>Transmission Line Type</b>		Coaxial Cable
<b>Cable Size</b>		7/8"
<b>Cable Type</b>		Air Dielectric
<b>Model Series</b>		HCA78-50 Series
<b>Connector Interface</b>		7/8" EIA
<b>Connector Type</b>		Gas stop and can be converted to gas pass by drilling. The design does not include a gas inlet.
<b>Sealing Method</b>		O-ring Sealing
<b>Gender</b>		Female - See Note 1) and Note 2)

**ELECTRICAL SPECIFICATIONS**

<b>Nominal Impedance, ohms</b>	Ohm	50
<b>Insertion loss</b>	dB	< 0.05dB
<b>Connector Frequency Range</b>	GHz	DC to 2.7 GHz
<b>VSWR, Return Loss</b>	VSWR (dB)	0 to 1 GHz: 1.02 (40) 1 GHz to 2.7 GHz: 1.07 (30)

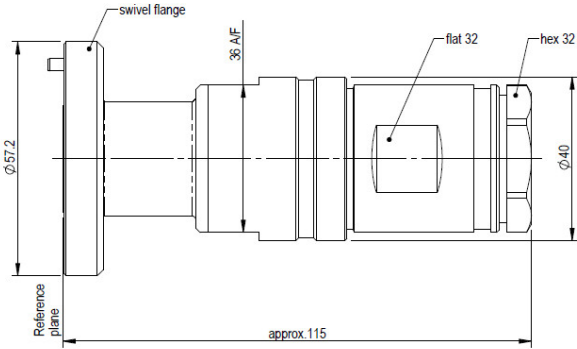
**MECHANICAL SPECIFICATIONS**

<b>Plating Outer/Inner</b>		Tri Metal/Silver
<b>Length</b>	mm (in)	115 (4.53)
<b>Outer Diameter</b>	mm (in)	57.2 (2.25)
<b>Weight</b>	kg (lb)	0.6 (1.3)
<b>Body Material</b>		Copper Alloy
<b>Inner Contact Material</b>		Copper Alloy
<b>Inner Contact Attachment</b>		Threaded
<b>Outer Contact Attachment</b>		Tab Flare
<b>Gas Inlet</b>		Not included in the design



ACCESSORIES

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



78EIA-HCA78-019 connector, dimensions in mm

[External Document Links](#)  
[Installation Instruction](#)

Notes

- 1) Connector model with -019KT suffix denotes connectors that are supplied with a coupling element and flange hardware.
- 2) Connector model -019 does not include the coupling element and flange hardware.
- 3) This connector design does not include a gas inlet.