

**78EIA-HCA78-020**

7/8" EIA Female Connector for 7/8" Coaxial Cable, RAPID FIT™ Sealing compound



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Radio Frequency Systems line of 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 HELIFLEX® coaxial cables. RFS connectors are fully tested for mechanical and electrical compliance specifications. They are available in all popular cable sizes in a variety of mating interfaces. 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 with the exception of the S-Line male versions that have a captivated coupling element. Connectors are available in sizes matching the nominal cable size. EIA connectors provide optimal power handling for the complete transmission line system.

Features / Benefits

- 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 68, Assures safe, long term operation in the harshest of environments. System tightness doesn't have to rely on overpressure from dehydration equipment.

Technical Features**STRUCTURE**

Cable Type	Air Dielectric
Cable Size	7/8"
Model Series	HCA78-50 Series
Connector Interface Size	7/8" EIA

MECHANICAL SPECIFICATIONS

Connector Length	91mm (3.58in)
Connector Outer Diameter	57.2mm (2.25in)
Sealing Volume	5cm ³ (0.169ounces)
Inner Conductor Material / Coating	Copper-alloy / Silver
Outer Conductor Material / Coating	Copper-alloy / Nickel
Sealing Volume	5cm ³ (0.169ounces)
Sealing Method	Sealing compound ¹)

ELECTRICAL SPECIFICATIONS

Nominal Impedance	50 Ω	
Connector Frequency Range	0 - 3.0 GHz	
Frequency Range	VSWR	Return Loss
DC - 1000 MHz	1.02	40
1000- 2000 MHz	1.03	36.6
2000 - 3000 MHz	1.06	30.7



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ACCESSORIES

Wrench Size Connector Front Part	36mm (1-7/16in)
Wrench Size Connector Rear Part	32mm (1-1/4in)



NOTES

- 1) The sealing compound must be ordered separately.
- 2) The connector is converted to gas pass by drilling through the pilot hole in the insulator.
- 3) Connector does not include inner connector.

Related Documents



Installation Instruction
Installation Instructions