

**716F-HCA78-020**

7-16 DIN Female Connector for 7/8" Coaxial Cable, RAPID FIT™ Sealing compound



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. The 7-16 connector is the most rugged RF connection meeting all requirements even under severe environmental conditions.

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.
- RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis

Technical Features**STRUCTURE**

Cable Type	Air Dielectric
Cable Size	7/8"
Model Series	HCA78-50 Series
Connector Interface Size	7-16 DIN
Connector Interface Gender	female

MECHANICAL SPECIFICATIONS

Connector Length	72mm (2.84in)
Connector Outer Diameter	39.5mm (1.55in)
Sealing Volume	5cm ³ (0.169ounces)
Inner Conductor Material / Coating	Copper-alloy / Silver
Outer Conductor Material / Coating	Copper-alloy / Silver
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)



Note	¹⁾ The sealing compound must be ordered separately.
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Related Documents

 **Installation Instruction**
Installation Instructions