

7-16 DIN Female with gas barrier for 1-5/8 in HJ7-50A air dielectric cable



## Product Classification

<b>Brand</b>	HELIAX®
<b>Product Type</b>	Air coaxial connector

## General Specifications

<b>Interface</b>	7-16 DIN Female
<b>Body Style</b>	Straight
<b>Gas Barrier</b>	Yes
<b>Mounting Angle</b>	Straight

## Electrical Specifications

<b>Connector Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	0 – 2700 MHz
<b>Cable Impedance</b>	50 ohm
<b>RF Operating Voltage, maximum (vrms)</b>	1415.00 V
<b>dc Test Voltage</b>	4 kV
<b>Insulation Resistance, minimum</b>	5000 MOhm
<b>Average Power</b>	3.0 kW @ 900 MHz
<b>Peak Power, maximum</b>	40.00 kW
<b>Insertion Loss, typical</b>	0.05 dB

## Mechanical Specifications

<b>Outer Contact Attachment Method</b>	Tab-flare
<b>Inner Contact Attachment Method</b>	Thread-in stub
<b>Outer Contact Plating</b>	Silver
<b>Inner Contact Plating</b>	Silver

## Dimensions

<b>Nominal Size</b>	1-5/8 in
<b>Diameter</b>	72.00 mm   2.83 in

# H7PDF-S

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**Length** 110.00 mm | 4.33 in  
**Weight** 1.20 kg | 2.65 lb

## Environmental Specifications

**Operating Temperature** -40 °C to +85 °C (-40 °F to +185 °F)  
**Storage Temperature** -70 °C to +85 °C (-94 °F to +185 °F)

## Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
50–1000 MHz	1.02	40.09
1000–2200 MHz	1.04	34.15
2200–2700 MHz	1.60	12.74

## Regulatory Compliance/Certifications

### Agency

RoHS 2011/65/EU  
ISO 9001:2015  
China RoHS SJ/T 11364-2014

### Classification

Compliant by Exemption  
Designed, manufactured and/or distributed under this quality management system  
Above Maximum Concentration Value (MCV)



## \* Footnotes

**Insertion Loss, typical**  $0.05\sqrt{\text{freq}} \text{ (GHz)}$  (not applicable for elliptical waveguide)