



# Product specification

## HUGHES 7/8" LLCF FEEDER CABLE

### 19-RF3111404



## Description

High performance 7/8" coaxial cable to be used in RF systems. Low PIM and VSWR leads to higher energy efficiency and lower outer interference. Wide range of applications.

## Specification

Construction Materials	
Inner Conductor	Smooth copper tube
Dielectric	Physical Foam Polyethylene
Outer Conductor	Corrugated Copper Tube
Jacket	Low Smoke Halogen-free Fire-retardant
Physical Dimensions	
Inner Conductor Diameter	8.85 ± 0.1mm
Dielectric Diameter	22.80 ± 0.4mm
Outer Conductor Diameter	24.90 ± 0.4mm
Diameter Over Jacket	27.50 ± 0.5mm
Mechanical Specifications	
Minimum Bending Radius	
Single Bending	90mm
Repeated Bending	250mm
Minimum Number of Bends	15
Tensile Strength	1300N
Electrical Specifications	
Capacitance	75.0pF/m
Impedance	50 ± 2Ω
Velocity	89%

The facts and figures contained herein are carefully compiled to the best of our knowledge, but they are intended for general information purposes only.

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<b>RF Peak Voltage</b>	3.00 kV		
<b>Peak Power Rating</b>	91 KW		
<b>Cut-off Frequency</b>	5.2GHz		
<b>Shielding Effectiveness &gt; 10MHz</b>	>120dB		
<b>Insulation Resistance</b>	5000MΩ•km		
<b>VSWR</b>			
	<b>0.8-1.0GHz</b>	≤1.20	
	<b>1.7-2.2GHz</b>	≤1.20	
	<b>2.2-2.7GHz</b>	≤1.20	
	<b>3.3-3.8GHz</b>	≤1.20	
<b>Performance</b>			
<b>Frequency</b>	<b>Attenuation (dB/100m)</b>	<b>Attenuation (dB/100ft)</b>	<b>Average Power Rating (kW)</b>
100	1.19	0.36	8.62
150	1.47	0.45	7.20
200	1.71	0.52	5.99
280	2.05	0.62	4.94
450	2.64	0.80	3.88
800	3.62	1.10	2.83
900	3.87	1.18	2.65
1000	4.10	1.25	2.50
1500	5.16	1.57	1.99
1800	5.73	1.75	1.79
2000	6.09	1.86	1.68
2200	6.44	1.96	1.59
2400	6.78	2.07	1.54
2500	6.95	2.12	1.50
2600	7.12	2.17	1.46
2700	7.29	2.22	1.43
3000	7.74	2.36	1.33
3300	8.25	2.51	1.26
3400	8.42	2.57	1.23
3500	8.58	2.62	1.20
3600	8.74	2.66	1.17
3800	9.05	2.76	1.14
<b>Environmental Specifications</b>			
<b>Storage Temperature</b>	-40~+70°C		
<b>Installation Temperature</b>	-20~60°C		
<b>Operation Temperature</b>	-40~+70°C		

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