



EWP64-71

EWP64, HELIAX® Premium Elliptical Waveguide, 7.125–7.75 GHz, black PE jacket

Construction Materials

Jacket Material	PE
Conductor Material	Corrugated copper
Jacket Color	Black

Dimensions

Cable Volume	725.0 L/km 7.8 ft ³ /kft
Cable Weight	0.73 kg/m 0.49 lb/ft
Diameter Over Jacket (E Plane)	48.50 mm 1.91 in
Diameter Over Jacket (H Plane)	28.40 mm 1.12 in

Electrical Specifications

Operating Frequency Band	7.125 – 7.75 GHz
eTE11 Mode Cutoff	4.320 GHz
Group Delay	125 ns/100 ft @ 7.400 GHz 411 ns/100 m @ 7.400 GHz

Environmental Specifications

Installation Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Operating Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Storage Temperature	-70 °C to +85 °C (-94 °F to +185 °F)

General Specifications

Brand	HELIAX®
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Mechanical Specifications

Maximum Twist	3.00 °/m 1.00 °/ft
Minimum Bend Radius, Multiple Bends (E Plane)	260.00 mm 10.00 in
Minimum Bend Radius, Multiple Bends (H Plane)	685.00 mm 27.00 in
Minimum Bend Radius, Single Bend (E Plane)	260.00 mm 10.00 in
Minimum Bend Radius, Single Bend (H Plane)	685.00 mm 27.00 in

Standard Conditions

Attenuation, Ambient Temperature	24 °C 75 °F
Average Power, Ambient Temperature	40 °C 104 °F
Average Power, Temperature Rise	42 °C 76 °F

Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
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7.125–7.75 GHz

1.06

30.70

* VSWR/Return Loss indicated is for lengths up to 300 ft (91.4 m)

* VSWR/Return Loss is guaranteed for factory-fit and typical for field-fit assemblies

* Custom length performance: Call +1-800-255-1479 (N. America), 1-779-435-6500 (Int'l.), or your local Andrew representative

Attenuation

Frequency (GHz)	Attenuation (dB/100 ft)	Attenuation (dB/100 m)	Average Power (kW)	Group Velocity %
7.1	1.492	4.894	4.223	79.5
7.3	1.469	4.821	4.287	80.7
7.5	1.45	4.756	4.346	81.9
7.7	1.432	4.699	4.398	82.9

Regulatory Compliance/Certifications

Agency

RoHS 2002/95/EC

China RoHS SJ/T 11364-2006

ISO 9001:2008

Classification

Compliant

Below Maximum Concentration Value (MCV)

Designed, manufactured and/or distributed under this quality management system

