



OBSOLETE

Product Classification

Product Type Elliptical waveguide

Product Brand HELIAX®

General Specifications

Jacket Color Black

Performance Note Values typical, unless otherwise stated

Dimensions

Diameter Over Jacket (E Plane)143.5 mm | 5.65 inDiameter Over Jacket (H Plane)75.9 mm | 2.988 in

Cable Volume 6596 L/km | 70.999 ft³/kft

Electrical Specifications

eTE11 Mode Cutoff 1.364 GHz

Group Delay at Frequency 139 ns/100 ft @ 2.000 GHz | 456 ns/100 m @ 2.000 GHz

Operating Frequency Band 1.7 – 2.1 GHz

VSWR/Return Loss

Frequency Band VSWR Return Loss (dB)

1.7–2.1 GHz 1.19 21.24

Attenuation



EWP17-17

Frequency (GHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)	Group Velocity %
1.7	1.509	0.46	35.354	59.7
1.8	1.352	0.412	39.479	65.3
1.9	1.253	0.382	42.578	69.6
2.0	1.186	0.362	44.99	73.1
2.1	1.137	0.347	46.913	76

Material Specifications

Conductor Material Corrugated copper

Jacket Material PE

Mechanical Specifications

Minimum Bend Radius, Multiple Bends (E Plane)710 mm | 27.953 inMinimum Bend Radius, Multiple Bends (H Plane)2060 mm | 81.102 inMinimum Bend Radius, Single Bend (E Plane)510 mm | 20.079 inMinimum Bend Radius, Single Bend (H Plane)1450 mm | 57.087 inMaximum Twist0.82 °/m | 0.25 °/ft

Environmental Specifications

Installation temperature $-40 \, ^{\circ}\text{C}$ to $+60 \, ^{\circ}\text{C}$ ($-40 \, ^{\circ}\text{F}$ to $+140 \, ^{\circ}\text{F}$)Operating Temperature $-55 \, ^{\circ}\text{C}$ to $+85 \, ^{\circ}\text{C}$ ($-67 \, ^{\circ}\text{F}$ to $+185 \, ^{\circ}\text{F}$)Storage Temperature $-70 \, ^{\circ}\text{C}$ to $+85 \, ^{\circ}\text{C}$ ($-94 \, ^{\circ}\text{F}$ to $+185 \, ^{\circ}\text{F}$)

Attenuation, Ambient Temperature $75 \,^{\circ}\text{F}$ | $23.889 \,^{\circ}\text{C}$ Average Power, Ambient Temperature $104 \,^{\circ}\text{F}$ | $40 \,^{\circ}\text{C}$ Average Power, Temperature Rise $42 \,^{\circ}\text{C}$ | $107.6 \,^{\circ}\text{F}$

Packaging and Weights

Cable weight 4.06 kg/m | 2.728 lb/ft

Regulatory Compliance/Certifications

Agency Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system



