



Product Classification

Product Type Premium elliptical waveguide

Product Brand HELIAX®
Product Series Premium

General Specifications

Jacket Color Black

Performance Note Values typical, unless otherwise stated

Dimensions

Diameter Over Jacket (E Plane)33.5 mm1.319 inDiameter Over Jacket (H Plane)20.3 mm0.799 in

Cable Volume 334 L/km | 3.595 ft³/kft

Electrical Specifications

eTE11 Mode Cutoff 6.5 GHz

Group Delay at Frequency 125 ns/100 ft @ 11.200 GHz | 410 ns/100 m @ 11.200 GHz

Operating Frequency Band 10.7 – 11.7 GHz

VSWR/Return Loss

Frequency Band VSWR Return Loss (dB)

10.7–11.7 GHz 1.06 30.72

Attenuation

Frequency (GHz) Attenuation (dB/100 m) Attenuation (dB/100 ft) Average Power (kW) Group Velocity %

10.7 10.311 3.143 1.559 79.4

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10.9	10.198	3.108	1.576	80.3
11.1	10.096	3.077	1.592	81.1
11.3	10.004	3.049	1.606	81.8
11.5	9.92	3.024	1.62	82.5
11.7	9.843	3	1.633	83.1

Material Specifications

Conductor Material Corrugated copper

Jacket Material PE

Mechanical Specifications

Minimum Bend Radius, Multiple Bends (E Plane)	180 mm 7.087 in
Minimum Bend Radius, Multiple Bends (H Plane)	480 mm 18.898 in
Minimum Bend Radius, Single Bend (E Plane)	150 mm 5.906 in
Minimum Bend Radius, Single Bend (H Plane)	330 mm 12.992 in
Maximum Twist	6.562 °/m 2 °/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 °F | 40 °C

Average Power, Temperature Rise

42 °C | 107.6 °F

Packaging and Weights

Cable weight 0.48 kg/m | 0.323 lb/ft

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



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