



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)73.7 mm | 2.902 inDiameter Over Jacket (H Plane)47.2 mm | 1.858 in

Cable Volume 1960 L/km | 21.097 ft³/kft

Electrical Specifications

eTE11 Mode Cutoff 2.79 GHz

Group Delay at Frequency 142 ns/100 ft @ 4.000 GHz | 465 ns/100 m @ 4.000 GHz

Operating Frequency Band 3.4 – 3.9 GHz

VSWR/Return Loss

Frequency Band VSWR Return Loss (dB)

3.4–3.9 GHz 1.08 28.3

Attenuation

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

3.4 3.631 1.107 8.143 57.2

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3.5	3.37	1.027	8.773	60.4
3.6	3.177	0.968	9.308	63.2
3.7	3.027	0.923	9.769	65.7
3.8	2.908	0.886	10.17	67.9
3.9	2.81	0.857	10.522	69.9

Material Specifications

Conductor Material Corrugated copper

Jacket Material PE

Mechanical Specifications

Minimum Bend Radius, Multiple Bends (E Plane)	430 mm 16.929 in
Minimum Bend Radius, Multiple Bends (H Plane)	1040 mm 40.945 in
Minimum Bend Radius, Single Bend (E Plane)	300 mm 11.811 in
Minimum Bend Radius, Single Bend (H Plane)	760 mm 29.921 in
Maximum Twist	1.64 °/m 0.5 °/ft

Environmental Specifications

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

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 1.25 kg/m | 0.84 lb/ft

Regulatory Compliance/Certifications

Agency Classification

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

