



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)43.6 mm | 1.717 inDiameter Over Jacket (H Plane)25.4 mm | 1 in

Cable Volume 585 L/km | 6.297 ft³/kft

Electrical Specifications

eTE11 Mode Cutoff 4.72 GHz

Group Delay at Frequency 128 ns/100 ft @ 7.800 GHz | 419 ns/100 m @ 7.800 GHz

Operating Frequency Band 7.125 – 8.5 GHz

VSWR/Return Loss

Frequency Band VSWR Return Loss (dB)

7.125–8.5 GHz 1.15 23.13

Attenuation

Frequency (GHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)	Group Velocity %
7.125	6.258	1.907	3.122	74.9
7.33	6.107	1.861	3.199	76.5

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7.53	5.982	1.823	3.266	77.9
7.73	5.875	1.791	3.326	79.2
7.93	5.782	1.762	3.379	80.4
8.13	5.701	1.738	3.427	81.4
8.33	5.631	1.716	3.47	82.4

Material Specifications

Conductor Material Corrugated copper

Jacket Material PE

Mechanical Specifications

Minimum Bend Radius, Multiple Bends (E Plane)	230 mm 9.055 in
Minimum Bend Radius, Multiple Bends (H Plane)	635 mm 25 in
Minimum Bend Radius, Single Bend (E Plane)	180 mm 7.087 in
Minimum Bend Radius, Single Bend (H Plane)	510 mm 20.079 in
Maximum Twist	3.281 °/m 1 °/ft

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)
Attenuation, Ambient Temperature	75 °F 23.889 °C

Average Power, Ambient Temperature 104 °F | 40 °C

Average Power, Temperature Rise 42 °C | 107.6 °F

Packaging and Weights

Cable weight 0.67 kg/m | 0.45 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



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