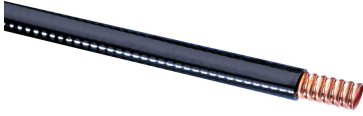


EW240, HELIAX® Standard Elliptical Waveguide, 24.0–26.5 GHz,  
black PE jacket



## Product Classification

<b>Product Type</b>	Elliptical waveguide
<b>Product Brand</b>	HELIAX®

## General Specifications

<b>Jacket Color</b>	Black
<b>Performance Note</b>	Values typical, unless otherwise stated

## Dimensions

<b>Diameter Over Jacket (E Plane)</b>	15.2 mm   0.598 in
<b>Diameter Over Jacket (H Plane)</b>	9.65 mm   0.38 in
<b>Cable Volume</b>	56 L/km   0.603 ft <sup>3</sup> /kft

## Electrical Specifications

<b>eTE11 Mode Cutoff</b>	15.19 GHz
<b>Group Delay at Frequency</b>	127 ns/100 ft @ 25.300 GHz   417 ns/100 m @ 25.300 GHz
<b>Operating Frequency Band</b>	24.0 – 26.5 GHz

## VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
24.0–26.5 GHz	1.15	23.13

## Attenuation

Frequency (GHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)	Group Velocity %
24.0	34.677	10.57	0.304	77.4
24.4	34.256	10.441	0.307	78.3

24.8	33.874	10.325	0.311	79
25.2	33.525	10.219	0.314	79.8
25.6	33.205	10.121	0.317	80.5
26.0	32.912	10.032	0.32	81.2
26.4	32.642	9.949	0.323	81.8

## Material Specifications

<b>Conductor Material</b>	Corrugated copper
<b>Jacket Material</b>	PE

## Mechanical Specifications

<b>Minimum Bend Radius, Multiple Bends (E Plane)</b>	4 mm   0.157 in
<b>Minimum Bend Radius, Multiple Bends (H Plane)</b>	9 mm   0.354 in
<b>Minimum Bend Radius, Single Bend (E Plane)</b>	4 mm   0.157 in
<b>Minimum Bend Radius, Single Bend (H Plane)</b>	9 mm   0.354 in
<b>Maximum Twist</b>	6.562 °/m   2 °/ft

## Environmental Specifications

<b>Installation temperature</b>	-40 °C to +60 °C (-40 °F to +140 °F)
<b>Operating Temperature</b>	-55 °C to +85 °C (-67 °F to +185 °F)
<b>Storage Temperature</b>	-70 °C to +85 °C (-94 °F to +185 °F)
<b>Attenuation, Ambient Temperature</b>	75 °F   23.889 °C
<b>Average Power, Ambient Temperature</b>	104 °F   40 °C
<b>Average Power, Temperature Rise</b>	42 °C   107.6 °F

## Packaging and Weights

<b>Cable weight</b>	0.16 kg/m   0.108 lb/ft
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## Regulatory Compliance/Certifications

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

