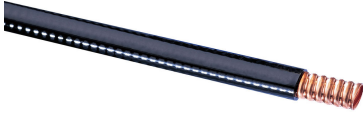


EW240

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



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)	15.2 mm 0.598 in
Diameter Over Jacket (H Plane)	9.65 mm 0.38 in
Cable Volume	56 L/km 0.603 ft³/kft

Electrical Specifications

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

VSWR/Return Loss

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

Attenuation

EW240

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

Conductor Material	Corrugated copper
Jacket Material	PE

Mechanical Specifications

Minimum Bend Radius, Multiple Bends (E Plane)	4 mm 0.157 in
Minimum Bend Radius, Multiple Bends (H Plane)	9 mm 0.354 in
Minimum Bend Radius, Single Bend (E Plane)	4 mm 0.157 in
Minimum Bend Radius, Single Bend (H Plane)	9 mm 0.354 in
Maximum Twist	6.562 °/m 2 °/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	0.16 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

