

EW28, HELIAX® Standard Elliptical Waveguide, 2.7–2.9 GHz, black PE jacket

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)92.5 mm | 3.642 inDiameter Over Jacket (H Plane)59.2 mm | 2.331 in

Cable Volume 3345 L/km | 36.005 ft³/kft

Electrical Specifications

eTE11 Mode Cutoff 2.153 GHz

Group Delay at Frequency 137 ns/100 ft @ 3.200 GHz | 451 ns/100 m @ 3.200 GHz

Operating Frequency Band 2.7 – 2.9 GHz

VSWR/Return Loss

Frequency Band VSWR Return Loss (dB)

2.7–2.9 GHz 1.2 20.83

Attenuation

Frequency (GHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)	Group Velocity %
2.7	2.564	0.781	14.275	60.3
2.8	2.361	0.72	15.499	63.9

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2.9 2.217 0.676 16.506 67

Material Specifications

Conductor Material Corrugated copper

Jacket Material PE

Mechanical Specifications

Minimum Bend Radius, Multiple Bends (E Plane)560 mm | 22.047 inMinimum Bend Radius, Multiple Bends (H Plane)1320 mm | 51.969 inMinimum Bend Radius, Single Bend (E Plane)560 mm | 22.047 inMinimum Bend Radius, Single Bend (H Plane)1320 mm | 51.969 in

Maximum Twist 0.82 °/m | 0.25 °/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 $104 \,^{\circ}\text{F}$ | $40 \,^{\circ}\text{C}$ Average Power, Temperature Rise $42 \,^{\circ}\text{C}$ | $107.6 \,^{\circ}\text{F}$

Packaging and Weights

Cable weight 2.04 kg/m | 1.371 lb/ft

Regulatory Compliance/Certifications

Agency Classification

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

