

# 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
2.9	2.217	0.676	16.506	67

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### 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 inMaximum Twist0.82 °/m | 0.25 °/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 $75 \,^{\circ}\text{F}$  |  $23.889 \,^{\circ}\text{C}$ 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

