

EWP43, HELIAX® Premium Elliptical Waveguide, 4.4–5.0 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)71 mm | 2.795 inDiameter Over Jacket (H Plane)41 mm | 1.614 in

**Cable Volume** 1690 L/km | 18.191 ft³/kft

**Electrical Specifications** 

eTE11 Mode Cutoff 2.78 GHz

**Group Delay at Frequency** 128 ns/100 ft @ 4.600 GHz | 419 ns/100 m @ 4.600 GHz

**Operating Frequency Band** 4.4 – 5.0 GHz

VSWR/Return Loss

Frequency Band VSWR Return Loss (dB)

**4.4–5.0 GHz** 1.07 29.42

Attenuation

Frequency (GHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)	Group Velocity %
4.4	2.983	0.909	9.52	77.5
4.5	2.948	0.899	9.632	78.6

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4.6	2.917	0.889	9.734	79.7
4.7	2.889	0.881	9.827	80.6
4.8	2.864	0.873	9.912	81.5
4.9	2.842	0.866	9.99	82.3
5.0	2.822	0.86	10.061	83.1

### Material Specifications

Conductor Material Corrugated copper

Jacket Material PE

#### Mechanical Specifications

Minimum Bend Radius, Multiple Bends (E Plane)	381 mm   15 in
Minimum Bend Radius, Multiple Bends (H Plane)	1016 mm   40 in
Minimum Bend Radius, Single Bend (E Plane)	280 mm   11.024 in
Minimum Bend Radius, Single Bend (H Plane)	711 mm   27.992 in
Maximum Twist	1.64 °/m   0.5 °/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** 1.2 kg/m | 0.806 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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