



OBSOLETE

Replaced By:

EWP127A EWP127A, HELIAX® Premium Elliptical Waveguide, 11.7–13.25 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)28.2 mm | 1.11 inDiameter Over Jacket (H Plane)17.1 mm | 0.673 in

Cable Volume 251 L/km | 2.702 ft³/kft

Electrical Specifications

eTE11 Mode Cutoff 7.67 GHz

Group Delay at Frequency 128 ns/100 ft @ 12.700 GHz | 419 ns/100 m @ 12.700 GHz

Operating Frequency Band 12.2 – 12.7 GHz

VSWR/Return Loss

Frequency Band VSWR Return Loss (dB)

12.2–12.7 GHz 1.08 28.3

COMMSC PE°

EWP127A-122

Attenuation

Frequency (GHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)	Group Velocity %
12.2	11.918	3.633	1.232	77.8
12.45	11.769	3.587	1.247	78.8
12.7	11.634	3.546	1.262	79.7

Material Specifications

Conductor Material Corrugated copper

Jacket Material PE

Mechanical Specifications

Minimum Bend Radius, Multiple Bends (E Plane)	150 mm 5.906 in
Minimum Bend Radius, Multiple Bends (H Plane)	380 mm 14.961 in
Minimum Bend Radius, Single Bend (E Plane)	130 mm 5.118 in
Minimum Bend Radius, Single Bend (H Plane)	280 mm 11.024 in
Maximum Twist	6.562°/m 2°/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 °F | 40 °C

Average Power, Temperature Rise

42 °C | 107.6 °F

Packaging and Weights

Cable weight 0.43 kg/m | 0.289 lb/ft

Regulatory Compliance/Certifications

Agency Classification

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



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