EWP127A



EWP127A, HELIAX® Premium Elliptical Waveguide, 11.7–13.25 GHz, black PE jacket

Product Classification

Product Type		Premium elliptical waveguide
Product Brand		HELIAX®
Product Series		Premium
General Specifications		
Jacket Color		Black
Performance Note		Values typical, unless otherwise stated
Dimensions		
Diameter Over Jacket (E Plane)		28.2 mm 1.11 in
Diameter 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		11.7 – 13.25 GHz
VSWR/Return Loss		
Frequency Band	VSWR	Return Loss (dB)

Frequency Band	VSWR	Return Loss (dB)		
11.7–12.2 GHz	1.08	28.3		
Attenuation				
Frequency (GHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)	Group Velocity %
11.7	12.276	3.742	1.196	75.5
11.95	12.086	3.684	1.214	76.7
12.2	11.918	3.633	1.232	77.8
12.45	11.769	3.587	1.247	78.8

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12.7	11.634	3.546	1.262	79.7
12.95	11.514	3.509	1.275	80.6
13.2	11.405	3.476	1.287	81.4

Material Specifications

Conductor Material

Jacket Material

PE

Corrugated copper

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 °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

0.43 kg/m | 0.289 lb/ft

Regulatory Compliance/Certifications

CHINA-ROHS Below maximum concentration value	Agency	Classification
	CHINA-ROHS	Below maximum concentration value
ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system	ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC Compliant as per SVHC revision on www.andrew.com/ProductCompliance	REACH-SVHC	Compliant as per SVHC revision on www.andrew.com/ProductCompliance
ROHS Compliant	ROHS	Compliant
UK-ROHS Compliant	UK-ROHS	Compliant



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