EWP90, HELIAX® Premium Elliptical Waveguide, 10.0–10.7 GHz, black PE jacket

Values typical, unless otherwise stated

Elliptical waveguide

HELIAX®

Black



# Product Classification

Product Type

Product Brand

# General Specifications

Jacket Color Performance Note

#### Dimensions

Diameter Over Jacket (E Plane)	33.5 mm   1.319 in
Diameter Over Jacket (H Plane)	20.3 mm   0.799 in
Cable Volume	334 L/km   3.595 ft <sup>3</sup> /kft

# **Electrical Specifications**

eTE11 Mode Cutoff	6.5 GHz
Group Delay at Frequency	125 ns/100 ft @ 11.200 GHz   410 ns/100 m @ 11.200 GHz
Operating Frequency Band	10.0 – 10.7 GHz

### Attenuation

Frequency (GHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)	Group Velocity %
10.0	10.814	3.296	1.486	76
10.2	10.649	3.246	1.509	77.1
10.4	10.503	3.201	1.53	78.1
10.6	10.371	3.161	1.549	79

# VSWR/Return Loss

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# EWP90-100

Frequency Band	VSWR	Return Loss (dB)
10.0-10.7 GHz	1.08	28.3
Material Specification	סחג	
Conductor Material		Corrugated copper
Jacket Material		PE
Mechanical Specific	cations	
Minimum Bend Radius, Multiple Bends (E Plane)		180 mm   7.087 in
Minimum Bend Radius, Multi	ple Bends (H Plane)	480 mm   18.898 in
Minimum Bend Radius, Single	e Bend (E Plane)	150 mm   5.906 in
Minimum Bend Radius, Single	e Bend (H Plane)	330 mm   12.992 in
Maximum Twist		6.562 °/m   2 °/ft
Environmental Spe	cifications	
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 Temper	rature	75 °F   23.889 °C
Average Power, Ambient Ten	nperature	104 °F   40 °C
Average Power, Temperature	Rise	42 °C   107.6 °F
Packaging and We	ights	
Cable weight		0.48 kg/m   0.323 lb/ft
Poquilatoru Complia	nco/Cortification	۲.

#### Regulatory Compliance/Certifications

Classification

#### Agency

ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system



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