EWP63-59W

EWP63, HELIAX® Premium Elliptical Waveguide, 5.8–7.125 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)51.1 mm | 2.012 inDiameter Over Jacket (H Plane)29.5 mm | 1.161 in

Cable Volume 855 L/km | 9.203 ft³/kft

Electrical Specifications

eTE11 Mode Cutoff 4.001 GHz

Group Delay at Frequency 126 ns/100 ft @ 6.775 GHz | 413 ns/100 m @ 6.775 GHz

Operating Frequency Band 5.8 – 7.125 GHz

VSWR/Return Loss

Frequency Band VSWR Return Loss (dB)

5.8-7.125 GHz 1.06 30.72

Attenuation

Frequency (GHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)	Group Velocity %
5.8	4.98	1.518	4.359	72.4
6.0	4.824	1.47	4.5	74.5

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6.2	4.697	1.432	4.621	76.4
6.4	4.592	1.4	4.727	78
6.6	4.504	1.373	4.819	79.5
6.8	4.429	1.35	4.9	80.9
7.0	4.366	1.331	4.972	82.1

Material Specifications

Conductor Material Corrugated copper

Jacket Material PE

Mechanical Specifications

Minimum Bend Radius, Multiple Bends (E Plane)	260 mm 10.236 in
Minimum Bend Radius, Multiple Bends (H Plane)	740 mm 29.134 in
Minimum Bend Radius, Single Bend (E Plane)	180 mm 7.087 in
Minimum Bend Radius, Single Bend (H Plane)	510 mm 20.079 in
Maximum Twist	3.281 °/m 1 °/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 0.76 kg/m | 0.511 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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