## EWP64-65, HELIAX® Premium Elliptical Waveguide, 6.425-7.125 GHz, unjacketed

**Product Classification** 

Product Type Elliptical waveguide

Product Brand HELIAX®

General Specifications

Performance Note Values typical, unless otherwise stated

**Dimensions** 

Diameter Over Jacket (E Plane)48.5 mm | 1.909 inDiameter Over Jacket (H Plane)28.4 mm | 1.118 in

**Cable Volume** 725 L/km | 7.804 ft³/kft

**Electrical Specifications** 

eTE11 Mode Cutoff 4.32 GHz

**Group Delay at Frequency** 125 ns/100 ft @ 7.400 GHz | 411 ns/100 m @ 7.400 GHz

**Operating Frequency Band** 6.425 – 7.125 GHz

VSWR/Return Loss

Frequency Band VSWR Return Loss (dB)

**6.425-7.125 GHz** 1.06 30.72

Attenuation

Frequency (GHz) Attenuation (dB/100 m) Attenuation (dB/100 ft) Average Power (kW) **Group Velocity %** 6.425 5.276 3.917 74 1.608 6.63 5.139 1.566 4.022 75.9 6.83 5.028 77.5 1.533 4.111 7.03 4.934 1.504 4.189 78.9

Material Specifications

**Conductor Material** Corrugated copper

Jacket Material Unjacketed

Mechanical Specifications

**COMMSCOPE®** 

# 222040-9

Minimum Bend Radius, Multiple Bends (E Plane)260 mm | 10.236 inMinimum Bend Radius, Multiple Bends (H Plane)685 mm | 26.969 inMinimum Bend Radius, Single Bend (E Plane)260 mm | 10.236 inMinimum Bend Radius, Single Bend (H Plane)685 mm | 26.969 inMaximum Twist3.281 °/m | 1 °/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 $104 \,^{\circ}\text{F}$  |  $40 \,^{\circ}\text{C}$ Average Power, Temperature Rise $42 \,^{\circ}\text{C}$  |  $107.6 \,^{\circ}\text{F}$ 

Packaging and Weights

**Cable weight** 0.73 kg/m | 0.491 lb/ft

#### Regulatory Compliance/Certifications

#### Agency Classification

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

