

**EW28-27****EW28, HELIAX® Standard Elliptical Waveguide, 2.7–2.9 GHz, black PE jacket**

## Construction Materials

Jacket Material	PE
Conductor Material	Corrugated copper
Jacket Color	Black

## Dimensions

Cable Volume	3345.0 L/km   36.0 ft³/kft
Cable Weight	2.04 kg/m   1.37 lb/ft
Diameter Over Jacket (E Plane)	92.50 mm   3.65 in
Diameter Over Jacket (H Plane)	59.20 mm   2.33 in

## Electrical Specifications

Operating Frequency Band	2.7 – 2.9 GHz
eTE11 Mode Cutoff	2.153 GHz
Group Delay	137 ns/100 ft @ 3.200 GHz 451 ns/100 m @ 3.200 GHz

## 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)

## General Specifications

Brand	HELIAX®
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## Mechanical Specifications

Maximum Twist	0.75 °/m   0.25 °/ft
Minimum Bend Radius, Multiple Bends (E Plane)	560.00 mm   22.00 in
Minimum Bend Radius, Multiple Bends (H Plane)	1320.00 mm   52.00 in
Minimum Bend Radius, Single Bend (E Plane)	560.00 mm   22.00 in
Minimum Bend Radius, Single Bend (H Plane)	1320.00 mm   52.00 in

## Note

Performance Note	Values typical, unless otherwise stated
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## Standard Conditions

Attenuation, Ambient Temperature	24 °C   75 °F
Average Power, Ambient Temperature	40 °C   104 °F

# Product Specifications

COMMScope®

EW28-27

POWERED BY



Average Power, Temperature Rise

42 °C | 76 °F

## Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
2.7–2.9 GHz	1.20	20.80

\* VSWR/Return Loss indicated is for lengths up to 300 ft (91.4 m)

\* VSWR/Return Loss is guaranteed for factory-fit and typical for field-fit assemblies

\* Custom length performance: Call +1-800-255-1479 (N. America), 1-779-435-6500 (Int'l.), or your local Andrew representative

## Attenuation

Frequency (GHz)	Attenuation (dB/100 ft)	Attenuation (dB/100 m)	Average Power (kW)	Group Velocity %
2.7	0.781	2.564	14.275	60.3
2.8	0.72	2.361	15.499	63.9
2.9	0.676	2.217	16.506	67

## Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system