

# 760175844 | HFC-4SM-412-APE

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HELIAX® Hybrid Cable with aluminum armor

## Product Classification

<b>Regional Availability</b>	Asia   Australia/New Zealand   EMEA   Latin America   North America
<b>Portfolio</b>	CommScope®
<b>Product Type</b>	Hybrid cable, copper and fiber
<b>Product Brand</b>	HELIAX®

## General Specifications

<b>Application</b>	Remote radio head
<b>Armor Type</b>	Corrugated aluminum
<b>Cable Type</b>	Wireless feeder
<b>Conductors, quantity</b>	4
<b>Construction Type</b>	Shielded
<b>Fiber Short Description</b>	RFF – 12AWG
<b>Fiber Type, quantity</b>	4
<b>Fibers per Subunit, quantity</b>	4
<b>Inner Shield (Tape) Material</b>	Corrugated aluminum
<b>Jacket Color</b>	Black
<b>Outer Shield (Tape) Material</b>	PE
<b>Strength Members</b>	Glass reinforced plastic rod
<b>Subunit, quantity</b>	1
<b>Total Fiber Count</b>	4
<b>Water Blocking Method</b>	Water blocking tape(s)   Water blocking threads

## Dimensions

<b>Buffer Tube/Subunit Diameter</b>	3.048 mm   0.12 in
<b>Diameter Over Jacket</b>	12.954 mm   0.51 in
<b>Conductor Gauge</b>	12 AWG

## Electrical Specifications

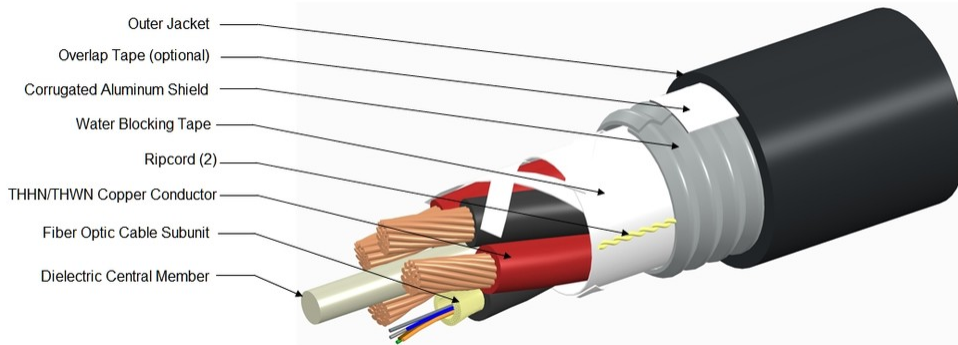
<b>dc Resistance Note</b>	Maximum value based on a standard condition of 20 °C (68 °F)
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**dc Resistance, maximum**

5.413 ohms/km | 1.65 ohms/kft

## Representative Image



## Material Specifications

**Ripcord Material** Para-aramid synthetic fiber

## Mechanical Specifications

**Minimum Bend Radius, multiple bends, loaded** 261.62 mm | 10.3 in

**Minimum Bend Radius, multiple bends, unloaded** 129.54 mm | 5.1 in

**Minimum Bend Radius, single bend, unloaded** 91.44 mm | 3.6 in

**Tensile Load, long term, maximum** 400.34 N | 90 lbf

**Tensile Load, short term, maximum** 1,334.466 N | 300 lbf

**Compression** 2.25 kg/mm | 126 lb/in

**Compression Test Method** FOTP-41

**Flex** 25 cycles

**Flex Test Method** FOTP-104

**Impact** 2.17 ft lb | 2.942 N-m

**Impact Test Method** FOTP-25

**Twist** 10 cycles

**Twist Test Method** FOTP-85

## Optical Specifications

**Fiber Type** G.657.A2/B2 | G.657.A2/B2

## Environmental Specifications

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<b>Installation temperature</b>	-30 °C to +70 °C (-22 °F to +158 °F)
<b>Operating Temperature</b>	-40 °C to +80 °C (-40 °F to +176 °F)
<b>Storage Temperature</b>	-40 °C to +80 °C (-40 °F to +176 °F)
<b>Cable Qualification Standards</b>	ANSI/ICEA S-87-640   Telcordia GR-20   Telcordia GR-409
<b>Environmental Space</b>	Wireless installation

## Packaging and Weights

<b>Cable weight</b>	247.035 kg/km   166 lb/kft
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## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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 <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant



## Included Products

CS-8G-MP	-	Enhanced Low Macrobending, Zero Water Peak, Dispersion-Unshifted Singlemode Fiber (ITU-T G.657.A2, B2)
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## \* Footnotes

**Operating Temperature** Specification applicable to non-terminated bulk fiber cable