

HELIAX® Hybrid Cable with aluminum armor

Product Classification

Regional Availability

Asia | Australia/New Zealand | EMEA | Latin America | North America

Portfolio

CommScope®

Product Type

Hybrid cable, copper and fiber

Product Brand

HELIAX®

General Specifications

Application

Remote radio head

Armor Type

Corrugated aluminum

Cable Type

Wireless feeder

Conductors, quantity

4

Construction Type

Armored

Fiber Short Description

RFF – 12AWG

Inner Shield (Tape) Material

Corrugated aluminum

Jacket Color

Black

Outer Shield (Tape) Material

PE

Strength Members

Glass reinforced plastic rod

Subunit, quantity

1

Fibers per Subunit, quantity

6

Total Fiber Count

6

Water Blocking Method

Water blocking tape(s) | Water blocking threads

Dimensions

Buffer Tube/Subunit Diameter

3.048 mm | 0.12 in

Diameter Over Jacket

13.716 mm | 0.54 in

Conductor Gauge

12 AWG

760188599 | HFC-6SM-412-APE

Electrical Specifications

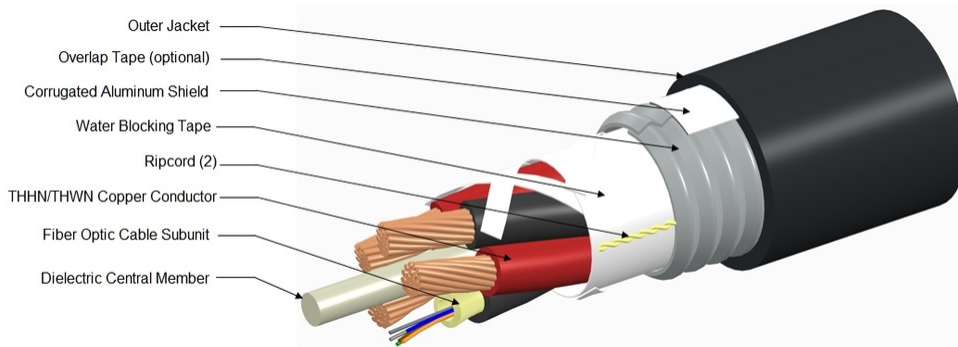
dc Resistance Note

Maximum value based on a standard condition of 20 °C (68 °F)

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

271.78 mm | 10.7 in

Minimum Bend Radius, multiple bends, unloaded

134.62 mm | 5.3 in

Minimum Bend Radius, single bend, unloaded

93.98 mm | 3.7 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

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

Packaging and Weights

Cable weight	250.012 kg/km 168 lb/kft
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Regulatory Compliance/Certifications

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

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