

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

Fiber Type, quantity

6

Fibers per Subunit, quantity

6

Inner Shield (Tape) Material

Corrugated aluminum

Jacket Color

Black

Outer Shield (Tape) Material

PE

Strength Members

Glass reinforced plastic rod

Subunit, quantity

1

Total Fiber Count

6

Water Blocking Method

Water blocking tape(s) | Water blocking threads

Dimensions

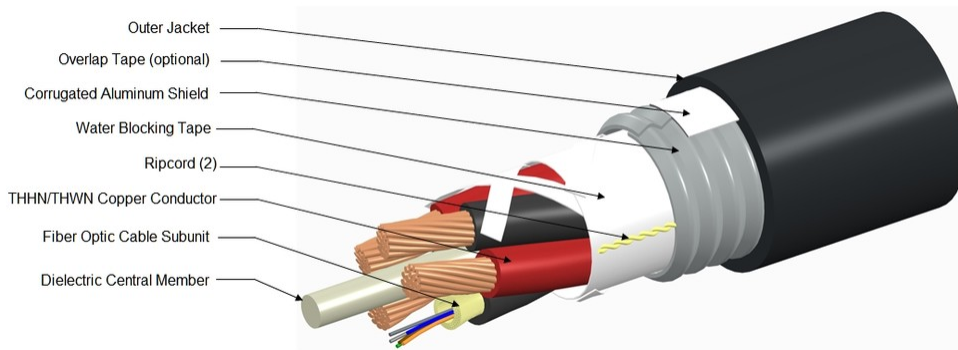
760188599 | HFC-6SM-412-APE

Buffer Tube/Subunit Diameter	3.048 mm 0.12 in
Diameter Over Jacket	13.716 mm 0.54 in
Conductor Gauge	12 AWG

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
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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

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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

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