

HELIAX® Hybrid Cable with Concentric Conductors, UL Type RHC

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

Alarm Wire, quantity

10

Cable Type

Wireless feeder

Conductors, quantity

4

Construction Type

Shielded

Fiber Short Description

RFF-6 AWG concentric

Fiber Type, quantity

12

Fibers per Subunit, quantity

12

Inner Shield (Tape) Material

Corrugated aluminum

Jacket Color

Black

Outer Shield (Tape) Material

PVC

Strength Members

Glass reinforced plastic rod

Subunit, quantity

1

Total Fiber Count

12

Water Blocking Method

Water blocking tape(s) | Water blocking threads

Dimensions

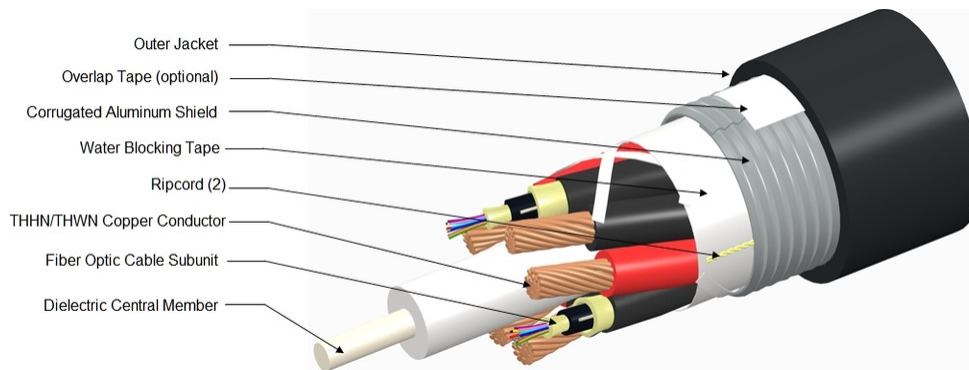
760210955 | HRC-12SM-406C-1018-APV

Buffer Tube/Subunit Diameter	9.144 mm 0.36 in
Diameter Over Jacket	32.512 mm 1.28 in
Alarm Wire Gauge	18 AWG
Conductor Gauge	6 AWG concentric

Electrical Specifications

dc Resistance Note	Maximum value based on a standard condition of 20 °C (68 °F)
dc Resistance, maximum	1.352 ohms/km 0.412 ohms/kft

Representative Image



Material Specifications

Ripcord Material	Para-aramid synthetic fiber
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Mechanical Specifications

Minimum Bend Radius, multiple bends, loaded	652.78 mm 25.7 in
Minimum Bend Radius, multiple bends, unloaded	391.16 mm 15.4 in
Minimum Bend Radius, single bend, unloaded	88.9 mm 3.5 in
Tensile Load, long term, maximum	800.68 N 180 lbf
Tensile Load, short term, maximum	2,668.932 N 600 lbf
Compression	2.232 kg/mm 125 lb/in
Compression Test Method	FOTP-41
Flex Test Method	FOTP-104
Impact	4.34 ft lb 5.884 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-104-696 | ANSI/ICEA S-87-640 | Telcordia GR-20 | Telcordia GR-409 | UL 2882

Environmental Space Wireless installation

Packaging and Weights

Cable weight 1,386.969 kg/km | 932 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