

760181669 | HTC-4SM-412-APV

HELIAX® Hybrid Cable, UL Type TC-OF-ER

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
Cable Type	Wireless feeder
Conductors, quantity	4
Construction Type	Shielded
Fiber Short Description	RFF – 12AWG
Fiber Type, quantity	4
Fibers per Subunit, quantity	2
Inner Shield (Tape) Material	Corrugated aluminum
Jacket Color	Black
Outer Shield (Tape) Material	PVC
Strength Members	Glass reinforced plastic rod
Subunit, quantity	2
Total Fiber Count	4
Water Blocking Method	Water blocking tape(s) Water blocking threads

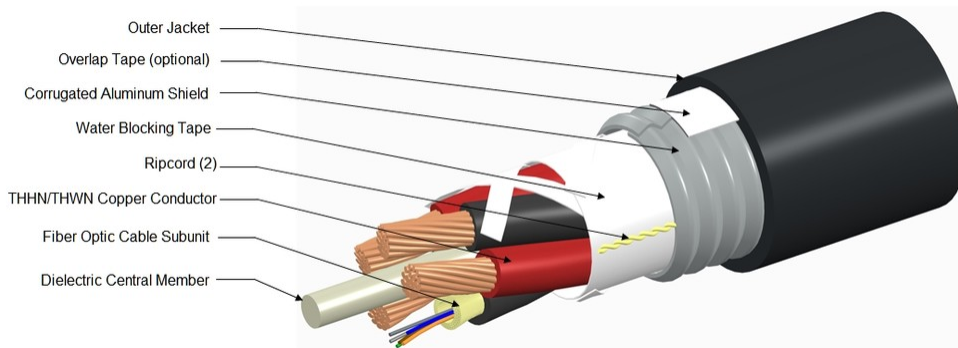
Dimensions

Buffer Tube/Subunit Diameter	3.048 mm 0.12 in
Diameter Over Jacket	15.748 mm 0.62 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

Mechanical Specifications

Minimum Bend Radius, multiple bends, loaded	314.96 mm 12.4 in
Minimum Bend Radius, multiple bends, unloaded	157.48 mm 6.2 in
Minimum Bend Radius, single bend, unloaded	109.22 mm 4.3 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)

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Operating Temperature	0 °C to +60 °C (+32 °F to +140 °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	327.396 kg/km 220 lb/kft
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Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
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