

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
Alarm Wire, quantity	6
Cable Type	Wireless feeder
Conductors, quantity	8
Construction Type	Shielded
Fiber Short Description	RFF – 8AWG
Fiber Type, quantity	24
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	2
Total Fiber Count	24
Water Blocking Method	Water blocking tape(s) Water blocking threads

Dimensions

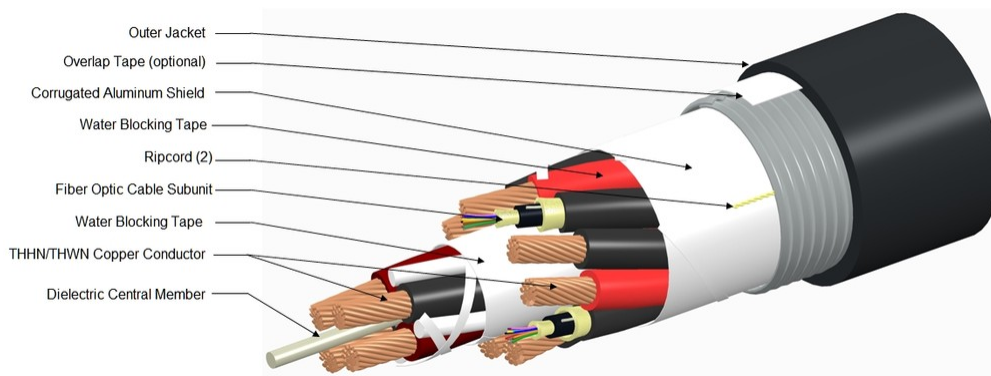
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Buffer Tube/Subunit Diameter	5.334 mm 0.21 in
Diameter Over Jacket	29.718 mm 1.17 in
Alarm Wire Gauge	18 AWG
Conductor Gauge	8 AWG

Electrical Specifications

dc Resistance Note	Maximum value based on a standard condition of 20 °C (68 °F)
dc Resistance, maximum	2.146 ohms/km 0.654 ohms/kft

Representative Image



Material Specifications

Ripcord Material	Para-aramid synthetic fiber
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Mechanical Specifications

Minimum Bend Radius, multiple bends, loaded	591.82 mm 23.3 in
Minimum Bend Radius, multiple bends, unloaded	294.64 mm 11.6 in
Minimum Bend Radius, single bend, unloaded	205.74 mm 8.1 in
Tensile Load, long term, maximum	1,067.573 N 240 lbf
Tensile Load, short term, maximum	3,558.576 N 800 lbf
Compression	4.5 kg/mm 252 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-87-640 | Telcordia GR-20 | Telcordia GR-409

Environmental Space Wireless installation

Packaging and Weights

Cable weight 1,296.191 kg/km | 871 lb/kft

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