760221283 | HTC-4SM-206-APVA



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 2

Construction Type Shielded

Fiber Short Description RFF – 6AWG

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

Dimensions

Buffer Tube/Subunit Diameter 6.096 mm | 0.24 in Diameter Over Jacket 24.384 mm | 0.96 in

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Conductor Gauge

6 AWG

Electrical Specifications

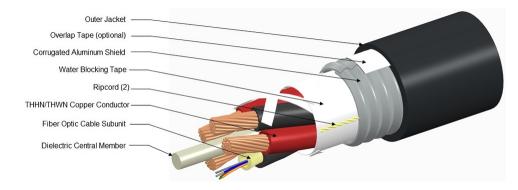
dc Resistance Note

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

Mechanical Specifications

Minimum Bend Radius, multiple bends, loaded Minimum Bend Radius, multiple bends, unloaded Minimum Bend Radius, single bend, unloaded

Tensile Load, long term, maximum Tensile Load, short term, maximum

Compression

Compression Test Method

Flex Test Method

Impact

Impact Test Method

Twist Twist Test Method

Optical Specifications

Fiber Type

487.68 mm | 19.2 in

292.1 mm | 11.5 in

170.18 mm | 6.7 in

533.786 N | 120 lbf

1,779.288 N | 400 lbf 4.5 kg/mm | 252 lb/in

FOTP-41

FOTP-104

4.34 ft lb | 5.884 N-m

FOTP-25

10 cycles

FOTP-85

G.657.A2/B2 | G.657.A2/B2

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Environmental Specifications

Installation temperature $-30 \,^{\circ}\text{C to} + 70 \,^{\circ}\text{C } (-22 \,^{\circ}\text{F to} + 158 \,^{\circ}\text{F})$ Operating Temperature $-40 \,^{\circ}\text{C to} + 80 \,^{\circ}\text{C } (-40 \,^{\circ}\text{F to} + 176 \,^{\circ}\text{F})$

Storage Temperature $-40 \,^{\circ}\text{C}$ to $+80 \,^{\circ}\text{C}$ (-40 $^{\circ}\text{F}$ to $+176 \,^{\circ}\text{F}$)

Cable Qualification Standards

ANSI/ICEA S-104-696 | ANSI/ICEA S-87-640 | Telcordia GR-

20 | Telcordia GR-409 | UL 1277

Environmental Space Wireless installation

Packaging and Weights

Cable weight 726.224 kg/km | 488 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)

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable



CS-8G-MP

Enhanced Low Macrobending, Zero Water Peak, Dispersion-Unshifted Singlemode Fiber (ITU-T G. 657.A2, B2)

Product Classification

 Portfolio
 CommScope®

 Product Type
 Optical fiber

General Specifications

Cladding Diameter 125 µm ±0.7 µm **Cladding Diameter Tolerance** Cladding Non-Circularity, maximum 0.7 % **Coating Diameter (Colored)** 249 µm **Coating Diameter (Uncolored)** 242 µm **Coating Diameter Tolerance (Colored)** ±13 µm **Coating Diameter Tolerance (Uncolored)** ±5 µm Coating/Cladding Concentricity Error, maximum 12 µm Core/Clad Offset, maximum $0.5 \, \mu m$

Proof Test 689.476 N/mm² | 100000 psi

Dimensions

Fiber Curl, minimum 4 m | 13.123 ft

Mechanical Specifications

 Macrobending, 15 mm mandrel, 1 turn
 0.50 dB @ 1,550 nm
 | 1.00 dB @ 1,625 nm

 Macrobending, 20 mm mandrel, 1 turn
 0.10 dB @ 1,550 nm
 | 0.20 dB @ 1,625 nm

 Macrobending, 30 mm mandrel, 10 turns
 0.03 dB @ 1,550 nm
 | 0.10 dB @ 1,625 nm

Coating Strip Force, maximum8.9 N | 2.001 lbfCoating Strip Force, minimum1.3 N | 0.292 lbf

Dynamic Fatigue Parameter, minimum 20

Optical Specifications

Cabled Cutoff Wavelength, maximum1260 nmPoint Defects, maximum0.1 dB

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CS-8G-MP

Zero Dispersion Slope, maximum 0.092 ps/[km-nm-nm]

Zero Dispersion Wavelength, maximum1324 nmZero Dispersion Wavelength, minimum1302 nm

Optical Specifications, Wavelength Specific

Attenuation, maximum 0.40 dB/km @ 1,310 nm | 0.40 dB/km @ 1,385

nm | 0.40 dB/km @ 1,550 nm | 0.50 dB/km @ 1,625

nm

Dispersion, maximum 18 ps(nm-km) at 1550 nm | 3.5 ps(nm-km) from 1285

nm to 1330 nm at 1310 nm

Index of Refraction 1.467 @ 1,310 nm | 1.467 @ 1,385 nm | 1.468 @ 1,550

nm

 Mode Field Diameter
 8.6 μm @ 1,310 nm | 9.8 μm @ 1,550 nm

Polarization Mode Dispersion Link Design Value, maximum 0.06 ps/sqrt(km)

Standards Compliance ITU-T G.657.A2 | ITU-T G.657.B2

Environmental Specifications

Heat Aging, maximum 0.05 dB/km @ 85 °C

Temperature Dependence, maximum0.05 dB/kmTemperature Humidity Cycling, maximum0.05 dB/km

Water Immersion, maximum 0.05 dB/km @ 23 °C

Regulatory Compliance/Certifications

Agency Classification

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



* Footnotes

Temperature Dependence, maximum Temperature dependence is conducted at -60 °C to +85 °C (-76 °F to +185 °F)

Temperature Humidity Cycling, maximum Temperature humidity cycling is conducted at -10 °C to +85 °C (+14 °F to +185 °F)

up to 95% relative humidity

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