760235002 | HTC-36SM-1812-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 18

Construction Type Shielded

Fiber Short Description RFF – 12AWG

Fiber Type, quantity 36
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 3

Total Fiber Count 36

Water Blocking Method Water blocking tape(s) | Water blocking threads

Dimensions

Buffer Tube/Subunit Diameter 3.048 mm | 0.12 in



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Diameter Over Jacket 24.638 mm | 0.97 in

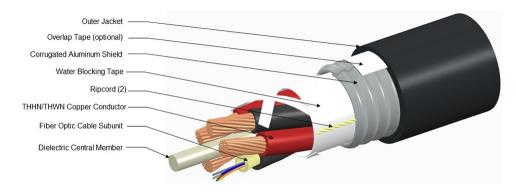
Conductor Gauge 12 AWG

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, loaded495.3 mm | 19.5 inMinimum Bend Radius, multiple bends, unloaded297.18 mm | 11.7 inMinimum Bend Radius, single bend, unloaded172.72 mm | 6.8 inTensile Load, long term, maximum2,668.932 N | 600 lbfTensile Load, short term, maximum800.68 N | 180 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 MethodFOTP-25Twist10 cycles

Twist Test Method FOTP-85

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Optical Specifications

Fiber Type G.657.A2/B2 | OM2+, LazrSPEED® 150

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-87-640 | Telcordia GR-20 | Telcordia GR-409

Environmental Space Wireless installation

Jacket UV Resistance UV stabilized

Packaging and Weights

Cable weight 805.097 kg/km | 541 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-5M-MP – LazrSPEED® 150 OM2+ Bend-Insensitive Multimode

Fiber

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable



LazrSPEED® 150 OM2+ Bend-Insensitive Multimode Fiber

LazrSPEED® 150

Product Classification

 Portfolio
 CommScope®

 Product Type
 Optical fiber

General Specifications

Cladding Diameter 125 µm **Cladding Diameter Tolerance** ±0.8 µm Cladding Non-Circularity, maximum 1 % **Coating Diameter (Colored)** $254 \, \mu m$ **Coating Diameter (Uncolored)** 245 µm **Coating Diameter Tolerance (Colored)** ±7 µm **Coating Diameter Tolerance (Uncolored)** ±10 μm Coating/Cladding Concentricity Error, maximum 12 µm **Core Diameter** 50 µm **Core Diameter Tolerance** ±2.5 µm

Proof Test 689.476 N/mm² | 100000 psi

Mechanical Specifications

Core/Clad Offset, maximum

 Macrobending, 15 mm mandrel, 2 turns
 0.20 dB @ 850 nm
 | 0.50 dB @ 1,300 nm

 Macrobending, 30 mm mandrel, 2 turns
 0.10 dB @ 850 nm
 | 0.30 dB @ 1,300 nm

 $1.5 \, \mu m$

Coating Strip Force, maximum $8.9 \,\mathrm{N}$ | $2.001 \,\mathrm{lbf}$ Coating Strip Force, minimum $1.3 \,\mathrm{N}$ | $0.292 \,\mathrm{lbf}$

Dynamic Fatigue Parameter, minimum 18

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CS-5M-MP

Optical Specifications

Numerical Aperture 0.2

Numerical Aperture Tolerance±0.015Point Defects, maximum0.15 dB

Zero Dispersion Slope, maximum 0.105 ps/[km-nm-nm]

Zero Dispersion Wavelength, maximum 1316 nm **Zero Dispersion Wavelength, minimum** 1297 nm

Optical Specifications, Wavelength Specific

1 Gbps Ethernet Distance 600 m @ 1,300 nm | 800 m @ 850 nm

10 Gbps Ethernet Distance 150 m @ 850 nm

Attenuation, maximum 1.00 dB/km @ 1,300 nm | 3.00 dB/km @ 850 nm

Backscatter Coefficient -68.0 dB @ 850 nm | -75.7 dB @ 1,300 nm

 Bandwidth, Laser, minimum
 500 MHz-km @ 1,300 nm | 950 MHz-km @ 850 nm

 Bandwidth, OFL, minimum
 500 MHz-km @ 1,300 nm | 700 MHz-km @ 850 nm

 Differential Mode Delay
 0.70 ps/m @ 850 nm | 0.88 ps/m @ 1,300 nm

Index of Refraction 1.479 @ 1,300 nm | 1.483 @ 850 nm

Standards Compliance TIA-492AAAB (OM2+)

Environmental Specifications

Heat Aging, maximum 0.20 dB/km @ 85 °C

Temperature Dependence, maximum0.1 dB/kmTemperature Humidity Cycling, maximum0.2 dB/km

Water Immersion, maximum 0.20 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)

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CS-5M-MP

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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