760243077 | HTC-24SM-1204-APVA

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

Product Classification

Representative Image

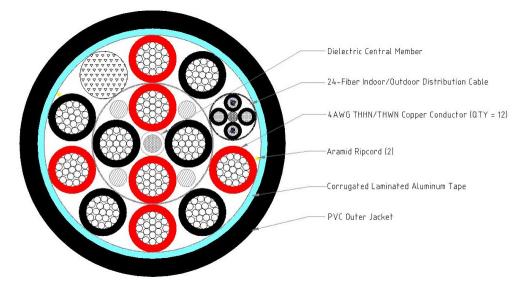
Regional Availability	Asia Australia/New Zealand EMEA Latin America North America
Portfolio	CommScope®
Product Type	Hybrid cable, copper and fiber
Product Brand	HELIAX®
General Specifications	
Application	Remote radio head
Cable Type	Wireless feeder
Conductors, quantity	12
Construction Type	Shielded
Fiber Short Description	RFF – 6AWG
Fiber Type, quantity	24
Fibers per Subunit, quantity	12
Inner Shield (Tape) Material	Corrugated aluminum
Jacket Color	Black
Strength Members	Glass reinforced plastic rod
Subunit, quantity	2
Total Fiber Count	24
Dimensions	
Buffer Tube/Subunit Diameter	3.048 mm 0.12 in
Diameter Over Jacket	44.704 mm 1.76 in
Conductor Gauge	4 AWG
Electrical Specifications	
dc Resistance Note	Maximum value based on a standard condition of 20 $^\circ C$ (68 $^\circ F)$
dc Resistance, maximum	0.85 ohms/km 0.259 ohms/kft

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Material Specifications

Ripcord Material

Mechanical Specifications

Minimum Bend Radius, multiple bends, loaded	721.36 mm 28.4 in
Minimum Bend Radius, multiple bends, unloaded	360.68 mm 14.2 in
Minimum Bend Radius, single bend, unloaded	251.46 mm 9.9 in
Tensile Load, long term, maximum	2,001.699 N 450 lbf
Tensile Load, short term, maximum	6,672.33 N 1500 lbf
Compression	4.465 kg/mm 250 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
Twist Test Method	FOTP-85
Optical Spacifications	

Optical Specifications

Fiber Type

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

Para-aramid synthetic fiber

Environmental Specifications

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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 Stand	ards	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		3,576.058 kg/km 2403 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



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
Cladding Diameter Tolerance	±0.7 μm
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 µm
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, maximum	8.9 N 2.001 lbf
Coating Strip Force, minimum	1.3 N 0.292 lbf
Dynamic Fatigue Parameter, minimum	20
Optical Specifications	
Cabled Cutoff Wavelength, maximum	1260 nm
Point Defects, maximum	0.1 dB

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CS-8G-MP

Zero Dispersion Slope, maximum	0.092 ps/[km-nm-nm]	
Zero Dispersion Wavelength, maximum	1324 nm	
Zero Dispersion Wavelength, minimum	1302 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 \mid 9.8 μm @ 1,550 nm	
Mode Field Diameter Tolerance	±0.4 μm @ 1310 nm ±0.5 μm @ 1550 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, maximum	0.05 dB/km
Temperature Humidity Cycling, maximum	0.05 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 °I	
	up to 95% relative humidity

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