## 760190587 | HTC-24SM-1206-618-APV/WH

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 Remote radio head Application Alarm Wire, quantity 6 Cable Type Wireless feeder Conductors, quantity 12 **Construction Type** Shielded RFF - 6AWG **Fiber Short Description** Fiber Type, quantity 24 Fibers per Subunit, quantity 12 Inner Shield (Tape) Material Corrugated aluminum **Jacket Color** Off-white **PVC Outer Shield (Tape) Material** Glass reinforced plastic rod **Strength Members** 2 Subunit, quantity **Total Fiber Count** 24 Water Blocking Method Water blocking tape(s) | Water blocking threads

#### Dimensions

Page 1 of 5

©2021 CommScope, Inc. All rights reserved. All trademarks identified by ® or <sup>™</sup> are registered trademarks, respectively, of CommScope. All specifications are subject to change without notice. See www.commscope.com for the most current information. Revised: June 21, 2021



# 760190587 | HTC-24SM-1206-618-APV/WH

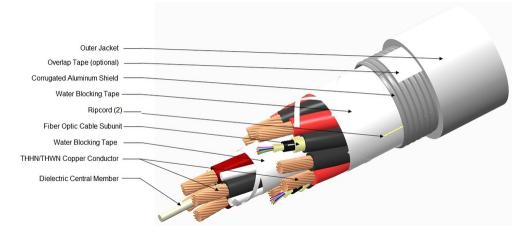
Buffer Tube/Subunit Diameter	6.096 mm   0.24 in
Diameter Over Jacket	36.322 mm   1.43 in
Alarm Wire Gauge	18 AWG
Conductor Gauge	6 AWG
Electrical Specifications	
dc Resistance Note	Maximum value based on a stand

dc Resistance, maximum

### Maximum value based on a standard condition of 20 °C (68 °F) 1.352 ohms/km | 0.412 ohms/kft

Para-aramid synthetic fiber

### Representative Image



### Material Specifications

**Ripcord Material** 

### Mechanical Specifications

Minimum Bend Radius, multiple bends, loaded	723.9 mm   28.5 in
Minimum Bend Radius, multiple bends, unloaded	363.22 mm   14.3 in
Minimum Bend Radius, single bend, unloaded	254 mm   10 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

Page 2 of 5

©2021 CommScope, Inc. All rights reserved. All trademarks identified by ® or <sup>™</sup> are registered trademarks, respectively, of CommScope. All specifications are subject to change without notice. See www.commscope.com for the most current information. Revised: June 21, 2021



## 760190587 | HTC-24SM-1206-618-APV/WH

Twist		10 cycles
Twist Test Method		FOTP-85
Optical Specificat	tions	
Fiber Type		G.657.A2/B2   G.657.A2/B2
Environmental S	pecifications	
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		2,421.243 kg/km   1627 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

Page 3 of 5



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

Page 4 of 5

©2021 CommScope, Inc. All rights reserved. All trademarks identified by ® or <sup>™</sup> are registered trademarks, respectively, of CommScope. All specifications are subject to change without notice. See www.commscope.com for the most current information. Revised: January 22, 2021



### 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   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

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

Page 5 of 5

©2021 CommScope, Inc. All rights reserved. All trademarks identified by ® or <sup>™</sup> are registered trademarks, respectively, of CommScope. All specifications are subject to change without notice. See www.commscope.com for the most current information. Revised: January 22, 2021

