

Fiber OSP cable, LightScope ZWP® Mini Single Jacket All-Dielectric, Singlemode G.657.A2, 24 fiber Arid Core construction, Gel-filled, stranded loose tube, Meters jacket marking, Black jacket color

Product Classification

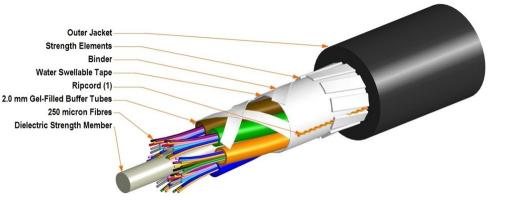
PortfolioCommScope@Product TypeFiber OSP cableProduct SeriesOLNCabler SpecificationsStanded loose tubeConstruction TypeStanded loose tubeSubunt TypeGel-filledFiller, quantityGel-filledJacket Marking MethodInkgetJacket Marking TextCommScope Gel OPTICAL CABLE TYPE G657A2 SM24 FIBER [SERIAL NUMBER] [MMSubunt, quantity12Fibers per Subunt, quantityQJacket Tipe Subunt, quantity12Fibers per Subunt, quantity2Fibers per Subunt, quantity2Subir Type Subunt, quantity2Fibers per Subunt, quantity2Subart Fiber Subunt, quantity2Subart Fiber Subunt, quantity2Subart Subunt, quantity2Subart Fiber Subunt, quantity2Subart Subunt, quantity2Subart Subunt, quantity2Subart Subunt, quantity2Subart Subunt, quantity2Subart Subunt, quantity2Subart Subunt, quantity3Subart Subunt, quantity2Subart Subunt, quantity3Subart Subart Suba	Regional Availability	EMEA
Product SeriesOLNGeneral SpecificationsStandedoose tubeCable TypeStrandedoose tubeConstruction TypeNon-armoredSubunit TypeGel-filledSubunit TypeAFiller, quantityAlacAcaCaCaCaCaCaCaCaCaCaCaCaCaCaCaCaCaCaC	Portfolio	CommScope®
Cable SpecificationsCable TypeStranded loose tubeConstruction TypeNon-armoredSubuni TypeGel-filledSubuni Type4Filler, quantityBlackJacket ColorBlackJacket Marking MethodNotersJacket Marking TextCOMMSCOPE GB OPTICAL CABLE TYPE G657A2 SM 24 FIBER [SERIAL NUMBER] [MM YYYY] [METER MARK]Subuni, quantity2Fibers pashuni, quantity12Jacket Marking Text12Subuni, quantity2Subuni, quantity2Jacket Marking Text2Subuni, quantity2Subuni, quantity2<	Product Type	Fiber OSP cable
Cable TypeKranded loose tubeConstruction TypeNon-armoredSubunit TypeGel-filledFiller, quantity4Jacket ColorBlackJacket Marking MethodMetersJacket Marking TextOMMSCOPE GB OPTICAL CABLE TYPE G657A2 SM 24 FIBER [SERIAL NUMBER] [MM YYYY] [METRE MARK]Subunit, quantity2Fibers per Subunit, quantity12Jinensions2Jinensions2Buffer Tube/Subunit Diameter2 mm 1 0.079 in	Product Series	O-LN
Construction TypeNon-armoredSubunit TypeGel-filledFiller, quantity4Jacket ColorBlackJacket MarkingMetersJacket Marking MethodInkjetJacket Marking TextCOMMSCOPE GB OPTICAL CABLE TYPE G657A2 SM 24 FIBER [SERIAL NUMBER] [MM /YYYY] [METRE MARK]Subunit, quantity2Fibers per Subunit, quantity12Total Fiber Count24Dimensions2Buffer Tube/Subunit Diameter2 mm 0.079 in	General Specifications	
Suburit TypeGel-filledFiller, quantity4Jacket ColorBlackJacket MarkingMetersJacket Marking TextInkjetSuburit, quantity2Fibers per Suburit, quantity12Fotal Fiber Court34Dimensions2Suburit, Type Suburit, Quantity2Suburit, Quantity </th <th>Cable Type</th> <th>Stranded loose tube</th>	Cable Type	Stranded loose tube
Filer, quantity4Filer, quantity4Jacket ColorBlackJacket MarkingMetersJacket Marking MethodInkjetJacket Marking TextCOMMSCOPE GB OPTICAL CABLE TYPE G657A2 SM 24 FIBER [SERIAL NUMBER] [MM /YYYY] [METRE MARK]Subunit, quantity2Fibers per Subunit, quantity12Total Fiber Count24DimensionsSuburit, Tube/Subunit, Diameter2 mm 1 0.079 in	Construction Type	Non-armored
Jacket ColorBlackJacket ColorMetersJacket Marking MethodInkjetJacket Marking TextCOMMSCOPE GB OPTICAL CABLE TYPE G657A2 SM 24 FIBER [SERIAL NUMBER] [MM YYYY] [METRE MARK]Subunit, quantity2Fibers per Subunit, quantity12Total Fiber Count24Dimensions2Buffer Tube/Subunit Diameter2 mm 0.079 in	Subunit Type	Gel-filled
Jacket MarkingMetersJacket Marking MethodInkjetJacket Marking TextCoMMSCOPE GB OPTICAL CABLE TYPE G657A2 SM 24 FIBER [SERIAL NUMBER] [MM YYYY] [METRE MARK]Subunit, quantity2Fibers per Subunit, quantity12Total Fiber Count24Dimensions2Hiffer Tube/Subunit Diameter2mm [0.079 in	Filler, quantity	4
Jacket Marking MethodInkjetJacket Marking TextCOMMSCOPE GB OPTICAL CABLE TYPE G657A2 SM 24 FIBER [SERIAL NUMBER] [MM /YYY] [METRE MARK]Subunit, quantity2Fibers per Subunit, quantity12Total Fiber Count24Dimensions2Metre Marker Marker Metre Marker Metre Marker Metre Marker Mar	Jacket Color	Black
Jacket Marking TextCOMMSCOPE GB OPTICAL CABLE TYPE G657A2 SM 24 FIBER [SERIAL NUMBER] [MM /YYY] [METRE MARK]Subunit, quantity2Fibers per Subunit, quantity12Total Fiber Count24Dimensions	Jacket Marking	Meters
YYYY] [METRE MARK]Subunit, quantity2Fibers per Subunit, quantity12Total Fiber Count24Dimensions2Buffer Tube/Subunit Diameter2 mm 0.079 in	Jacket Marking Method	Inkjet
Fibers per Subunit, quantity12Total Fiber Count24Dimensions2 mm 0.079 in	Jacket Marking Text	
Total Fiber Count24Dimensions2 mm 0.079 in	Subunit, quantity	2
Dimensions Buffer Tube/Subunit Diameter 2 mm 0.079 in	Fibers per Subunit, quantity	12
Buffer Tube/Subunit Diameter2 mm 0.079 in	Total Fiber Count	24
	Dimensions	
Diameter Over Jacket9.5 mm 0.374 in	Buffer Tube/Subunit Diameter	2 mm 0.079 in
	Diameter Over Jacket	9.5 mm 0.374 in

Representative Image

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Material Specifications

Jacket Material	PE
Mechanical Specifications	
Minimum Bend Radius, loaded	143 mm 5.63 in
Minimum Bend Radius, unloaded	95 mm 3.74 in
Tensile Load, long term, maximum	800 N 179.847 lbf
Tensile Load, short term, maximum	2700 N 606.984 lbf
Compression	22 N/mm 125.623 lb/in
Compression Test Method	IEC 60794-1 E3
Flex	25 cycles
Flex Test Method	IEC 60794-1 E6
Impact	2.94 N-m 26.021 in lb
Impact Test Method	IEC 60794-1 E4
Strain	See long and short term tensile loads
Strain Test Method	IEC 60794-1 E1
Twist	10 cycles
Twist Test Method	IEC 60794-1 E7
Vertical Rise, maximum	1142 m 3,746.719 ft
Optical Specifications	

Fiber Type

G.657.A2 | G.657.A2, TeraSPEED®

Environmental Specifications

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COMMSCOPE®

Installation temperature	-30 °C to +70 °C (-22 °F to +158 °F)
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Storage Temperature	-40 °C to +75 °C (-40 °F to +167 °F)
Cable Qualification Standards	ANSI/ICEA S-87-640 EN 187105 IEC 60794-1-2
Environmental Space	Aerial, lashed Buried
Jacket UV Resistance	UV stabilized
Water Penentration	24 h
Water Penentration Test Method	IEC 60794-1 F5

Environmental Test Specifications

Cable Freeze	-2 °C 28.4 °F
Cable Freeze Test Method	IEC 60794-1 F15
Drip	70 °C 158 °F
Drip Test Method	IEC 60794-1 E14
Heat Age	-40 °C to +85 °C (-40 °F to +185 °F)
Heat Age Test Method	IEC 60794-1 F9
Low High Bend	-30 °C to +60 °C (-22 °F to +140 °F)
Low High Bend Test Method	IEC 60794-1 E11
Temperature Cycle	-40 °C to +70 °C (-40 °F to +158 °F)
Temperature Cycle Test Method	IEC 60794-1 F1

Packaging and Weights

Cable weight

72 kg/km | 48.382 lb/kft

Regulatory Compliance/Certifications

Agency

Classification

Designed, manufactured and/or distributed under this quality management system



ISO 9001:2015

Included Products

CS-8G-LT

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

* Footnotes

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Operating Temperature Specification applicable to non-terminated bulk fiber cable

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CS-8G-LT

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

Product Classification

Portfolio	CommScope®	
Product Type	Optical fiber	
	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 Ø mandrel, 1 turn	0.50 dB @ 1,550 nm 1.00 dB @ 1,625 nm	
Macrobending, 20 mm Ø mandrel, 1 turn	0.10 dB @ 1,550 nm 0.20 dB @ 1,625 nm	
Macrobending, 30 mm Ø 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-LT

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	0.25 dB/km @ 1,550 nm 0.33 dB/km @ 1,385 nm 0.36 dB/km @ 1,310 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

Agency 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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