760249703 | 0-024-CA-8Z-M24BK/28G/093



Fiber OSP cable, PE, Gel-filled Central Tube, CST, 24 fiber, Singlemode G. 652.D and G.657.A1, Meters jacket marking, Black jacket color

Product Classification

Regional Availability

Asia | Australia/New Zealand

Portfolio CommScope®
Product Type Fiber OSP cable

Product Series O-CA

General Specifications

Cable Type Central loose tube

Construction TypeArmoredSubunit TypeGel-filledJacket ColorBlackJacket MarkingFeetFibers per Subunit, quantity24Total Fiber Count24

Dimensions

Buffer Tube/Subunit Diameter2.8 mm0.11 inDiameter Over Jacket9.1 mm0.358 in

Mechanical Specifications

Minimum Bend Radius, loaded182 mm | 7.165 inMinimum Bend Radius, unloaded91 mm | 3.583 inTensile Load, long term, maximum890 N | 200.08 lbfTensile Load, short term, maximum2700 N | 606.984 lbfCompression20 N/mm | 114.203 lb/in

Compression Test Method IEC 60794-1-2 E3

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Flex 25 cycles

Strain See long and short term tensile loads

Strain Test Method IEC 60794-1-2-E1

Optical Specifications

Fiber Type G.652.D and G.657.A1 | OS2

Optical Specifications, Wavelength Specific

Attenuation, maximum 0.22 dB/km @ 1,550 nm | 0.38 dB/km @ 1,310 nm

Environmental Specifications

Installation temperature $-10 \,^{\circ}\text{C}$ to $+60 \,^{\circ}\text{C}$ (+14 $^{\circ}\text{F}$ to +140 $^{\circ}\text{F}$)

Operating Temperature $-40 \,^{\circ}\text{C} \text{ to } +70 \,^{\circ}\text{C} \, (-40 \,^{\circ}\text{F to } +158 \,^{\circ}\text{F})$

Storage Temperature $-40 \,^{\circ}\text{C} \text{ to } +70 \,^{\circ}\text{C} \, (-40 \,^{\circ}\text{F to } +158 \,^{\circ}\text{F})$

Environmental Space Buried | Ducted | Outdoor

Water Penetration 24 h

Water Penetration Test Method IEC 60794-1 F5B

Environmental Test Specifications

Temperature Cycle $-40 \,^{\circ}\text{C} \text{ to } +70 \,^{\circ}\text{C} \, (-40 \,^{\circ}\text{F to } +158 \,^{\circ}\text{F})$

Temperature Cycle Test Method IEC 60794-1-2 F1

Packaging and Weights

Cable weight 92 kg/km | 61.821 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 UK-ROHS Compliant



Included Products

COMMSCOPE®

760249703 | 0-024-CA-8Z-M24BK/28G/093

CS-8Z-LT

 Low Water Peak, Dispersion-Unshifted Singlemode Fiber

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

CS-8Z-LT

Low Water Peak, Dispersion-Unshifted Singlemode Fiber

Product Classification

 Portfolio
 CommScope®

 Product Type
 Optical fiber

General Specifications

Cladding Diameter $125\,\mu m$ Cladding Diameter Tolerance $\pm 0.7\,\mu m$ Cladding Non-Circularity, maximum $1\,\%$ Coating Diameter (Colored) $250\,\mu m$ Coating Diameter (Uncolored) $245\,\mu m$ Coating Diameter Tolerance (Colored) $\pm 15\,\mu m$ Coating Diameter Tolerance (Uncolored) $\pm 10\,\mu m$

Proof Test 689.476 N/mm² | 100000 psi

Dimensions

Fiber Curl, minimum 4 m | 13.123 ft

Mechanical Specifications

Macrobending, 32 mm Ø mandrel, 1 turn0.50 dB @ 1,550 nmMacrobending, 50 mm Ø mandrel, 100 turns0.05 dB @ 1,550 nmCoating Strip Force, maximum8.9 N | 2.001 lbfCoating Strip Force, minimum1.3 N | 0.292 lbf

Dynamic Fatigue Parameter, minimum 18

Optical Specifications

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

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

Zero Dispersion Wavelength, maximum 1324 nm

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CS-8Z-LT

Zero Dispersion Wavelength, minimum 1300 nm

Optical Specifications, Wavelength Specific

Attenuation, maximum 0.25 dB/km @ 1,550 nm | 0.35 dB/km @ 1,310

nm | 0.35 dB/km @ 1,385 nm

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

Mode Field Diameter 10.4 µm @ 1,550 nm | 9.2 µm @ 1,310 nm | 9.6 µm @

1,385 nm

Mode Field Diameter Tolerance $\pm 0.4 \, \mu \text{m}$ @ 1310 nm $\mid \pm 0.5 \, \mu \text{m}$ @ 1550 nm $\mid \pm 0.6 \, \mu \text{m}$

@ 1385 nm

Polarization Mode Dispersion Link Design Value, maximum 0.08 ps/sqrt(km)

Standards Compliance ITU-T G.652.D | ITU-T G.657.A1 | TIA-492CAAB (OS2)

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 °F)

up to 95% relative humidity

