760214015 | D-036-CA-RB-F12NS/5K/99A



Fiber OSP cable, Steel Armored, Arid-Core, Dry Central Tube Ribbon, 36 fiber, Multimode OM4, bend insensitive, Feet jacket marking, Black jacket color

Product Classification

Regional Availability

Asia | Australia/New Zealand | EMEA | Latin America | North

America

 Portfolio
 CommScope®

 Product Type
 Fiber OSP cable

Product Series D-CA

General Specifications

Armor Type Corrugated steel

Cable Type Ribbon central tube

Construction TypeArmoredSubunit TypeGel-freeFibers per Ribbon, quantity12

Jacket ColorBlackJacket MarkingFeetTotal Fiber Count36

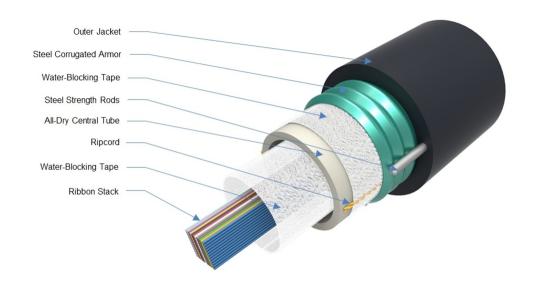
Dimensions

Buffer Tube/Subunit Diameter6 mm | 0.236 inDiameter Over Jacket13 mm | 0.512 in

Representative Image



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Mechanical Specifications

Minimum Bend Radius, loaded 259.1 mm | 10.201 in

Minimum Bend Radius, unloaded 129.5 mm | 5.098 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 FOTP-41 | IEC 60794-1 E3

Flex 25 cycles

Flex Test Method FOTP-104 | IEC 60794-1 E6

Impact 4.4 N-m | 38.943 in lb

Impact Test Method FOTP-25 | IEC 60794-1 E4

Strain See long and short term tensile loads

Strain Test Method FOTP-33 | IEC 60794-1 E1

Twist 10 cycles

Twist Test Method FOTP-85 | IEC 60794-1 E7

Optical Specifications

Fiber Type OM4, bend insensitive | OM4, bend insensitive

Environmental Specifications



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Installation temperature $-30 \,^{\circ}\text{C to } +60 \,^{\circ}\text{C } (-22 \,^{\circ}\text{F to } +140 \,^{\circ}\text{F})$ Operating Temperature $-40 \,^{\circ}\text{C to } +70 \,^{\circ}\text{C } (-40 \,^{\circ}\text{F to } +158 \,^{\circ}\text{F})$

Storage Temperature $-40 \,^{\circ}\text{C}$ to $+75 \,^{\circ}\text{C}$ ($-40 \,^{\circ}\text{F}$ to $+167 \,^{\circ}\text{F}$)

Cable Qualification Standards ANSI/ICEA S-87-640 | Telcordia GR-20

Environmental Space Aerial, lashed | Buried

Jacket UV Resistance UV stabilized

Water Penetration 24 h

Water Penetration Test Method FOTP-82 | IEC 60794-1 F5

Environmental Test Specifications

Heat Age -40 °C to +85 °C (-40 °F to +185 °F)

Heat Age Test Method IEC 60794-1 F9

Low High Bend $-30 \,^{\circ}\text{C} \text{ to } +60 \,^{\circ}\text{C} \, (-22 \,^{\circ}\text{F to } +140 \,^{\circ}\text{F})$

Low High Bend Test Method FOTP-37 | IEC 60794-1 E11

Temperature Cycle -40 °C to +70 °C (-40 °F to +158 °F)

Temperature Cycle Test Method FOTP-3 | IEC 60794-1 F1

Packaging and Weights

Cable weight 163 kg/km | 109.531 lb/kft

Regulatory Compliance/Certifications

Agency Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

Included Products

CS-5X-RB – 50µm OM4 Bend-Insensitive Multimode

Fiber

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable



CS-5X-RB

50µm OM4 Bend-Insensitive Multimode Fiber

Product Classification

PortfolioCommScope®Product TypeOptical fiber

General Specifications

Cladding Diameter 125 µm **Cladding Diameter Tolerance** ±5 µm 1 % **Cladding Non-Circularity, maximum Coating Diameter (Colored)** 250 um **Coating Diameter (Uncolored)** 245 µm **Coating Diameter Tolerance (Colored)** ±15 µm **Coating Diameter Tolerance (Uncolored)** ±10 μm Coating/Cladding Concentricity Error, maximum 12 µm **Core Diameter** 50 µm **Core Diameter Tolerance** ±3 µm Core/Clad Offset, maximum 1 µm

Proof Tensile Stress 100,000 psi (0.69 GPa)

Mechanical Specifications

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

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

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

Optical Specifications

 Numerical Aperture
 0.2

 Numerical Aperture Tolerance
 ±0.015

 Point Defects, maximum
 0.2 dB

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

Zero Dispersion Wavelength, maximum 1340 nm

COMMSCOPE®

CS-5X-RB

Zero Dispersion Wavelength, minimum

1295 nm

Optical Specifications, Wavelength Specific

1 Gbps Ethernet Distance 1,000 m @ 850 nm | 550 m @ 1,300 nm

10 Gbps Ethernet Distance 550 m @ 850 nm

Attenuation, maximum 1.50 dB/km @ 1,300 nm | 3.50 dB/km @ 850 nm

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

 Bandwidth, Laser, minimum
 4,700 MHz-km @ 850 nm | 500 MHz-km @ 1,300 nm

 Bandwidth, OFL, minimum
 3,500 MHz-km @ 850 nm | 500 MHz-km @ 1,300 nm

 Differential Mode Delay Note
 Superior to TIA-492AAAC and IEC 60793-2-10 at 850 nm

Index of Refraction 1.478 @ 1,300 nm | 1.482 @ 850 nm

Standards Compliance TIA-492AAAD (OM4)

Environmental Specifications

Heat Aging, maximum 0.10 dB/km @ 85 °C

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

Water Immersion, maximum 0.10 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

