## 760252035

Fiber OSP cable, PE, Gel-filled Central Tube, CST, 4 fiber, Multimode OM4, Meters jacket marking, Black jacket color

## Product Classification

## Regional Availability

## Portfolio

Product Type
Product Series

## Ceneral Specifications

| Cable Type | C |
| :--- | :--- |
| Construction Type | Arm |
| Subunit Type | G |
| Jacket Color | M |
| Jacket Marking | 4 |
| Fibers per Subunit, quantity | 4 |

Total Fiber Count
Dimensions
Buffer Tube/Subunit Diameter
Diameter Over Jacket
Mechanical Specifications
Minimum Bend Radius, loaded
Minimum Bend Radius, unloaded
Tensile Load, long term, maximum
Tensile Load, short term, maximum
Compression
Compression Test Method

4

## Asia | Australia/New Zealand

## CommScope®

Fiber OSP cable
O-CA

## Central loose tube

Armored
Gel-filled
Black
Meters
4
$2.8 \mathrm{~mm} \mid 0.11 \mathrm{in}$
$9.1 \mathrm{~mm} \mid 0.358 \mathrm{in}$

182 mm | 7.165 in
91 mm | 3.583 in
890 N | 200.08 lbf
2700 N | 606.984 lbf
$20 \mathrm{~N} / \mathrm{mm}$ | $114.203 \mathrm{lb} / \mathrm{in}$
IEC 60794-1-2 E3

## 760252035 <br> 0-004-CA-5X-M04BK/28G/093

## Flex

Strain
Strain Test Method

## Optical Specifications

## Fiber Type

25 cycles
See long and short term tensile loads
IEC 60794-1-2-E1

## Optical Specifications, Wavelength Specific

Attenuation, maximum
Environmental Specifications
1.00 dB/km @ 1,300 nm | 3.00 dB/km @ 850 nm
Installation temperature $-10^{\circ} \mathrm{C}$ to $+60^{\circ} \mathrm{C}\left(+14^{\circ} \mathrm{F}\right.$ to $\left.+140^{\circ} \mathrm{F}\right)$$-40^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}\left(-40^{\circ} \mathrm{F}\right.$ to $\left.+158^{\circ} \mathrm{F}\right)$
Storage Temperature
$-40^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}\left(-40^{\circ} \mathrm{F}\right.$ to $\left.+158^{\circ} \mathrm{F}\right)$
Environmental Space
Buried | Ducted | Outdoor
Water Penentration24 h
Water Penentration Test Method ..... IEC 60794-1 F5B
Environmental Test Specifications
Temperature CycleTemperature Cycle Test Method
$-40^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}\left(-40^{\circ} \mathrm{F}\right.$ to $\left.+158^{\circ} \mathrm{F}\right)$
IEC 60794-1-2 F1
Packaging and Weights
Cable weight ..... $92 \mathrm{~kg} / \mathrm{km} \mid 61.821 \mathrm{lb} / \mathrm{kft}$
Regulatory Compliance/Certifications

## Agency

CHINA-ROHS
REACH-SVHC
ROHS
UK-ROHS
-

## Included Products

## Classification

Below maximum concentration value
Compliant as per SVHC revision on www.commscope.com/ProductCompliance

## Compliant

Compliant

## 760252035 | O-004-CA-5X-M04BK/28G/093

CS-5X-LT-3.0/1.0/093 - OM4 Bend-Insensitive Multimode Fiber

## * Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

## CS-5X-LT-3.0/1.0/093

## OM4 Bend-Insensitive Multimode Fiber

## Product Classification

## Portfolio

Product Type

## General Specifications

Cladding Diameter
Cladding Diameter Tolerance
Cladding Non-Circularity, maximum
Coating Diameter (Colored)
Coating Diameter (Uncolored)
Coating Diameter Tolerance (Colored)
Coating Diameter Tolerance (Uncolored)
Coating/Cladding Concentricity Error, maximum
Core Diameter
Core Diameter Tolerance
Core/Clad Offset, maximum
Proof Test

## Mechanical Specifications

## Macrobending, $15 \mathrm{~mm} \emptyset$ mandrel, 2 turns

Macrobending, 30 mm Ø mandrel, 2 turns
Macrobending, 75 mm $\emptyset$ mandrel, 100 turns
Coating Strip Force, maximum
Coating Strip Force, minimum
Dynamic Fatigue Parameter, minimum

## Optical Specifications

Numerical Aperture ..... 0.2
Numerical Aperture Tolerance ..... $\pm 0.015$
Point Defects, maximum

CommScope®
Optical fiber

$$
125 \mu \mathrm{~m}
$$

$$
\pm 1.0 \mu \mathrm{~m}
$$

$$
1 \%
$$

$$
255 \mu \mathrm{~m}
$$

$$
245 \mu \mathrm{~m}
$$

$\pm 10 \mu \mathrm{~m}$
$\pm 10 \mu \mathrm{~m}$
$12 \mu \mathrm{~m}$
$50 \mu \mathrm{~m}$
$\pm 2.5 \mu \mathrm{~m}$
$1.5 \mu \mathrm{~m}$
689.476 N/mm² | 100000 psi
0.20 dB @ 850 nm | 0.50 dB @ 1,300 nm
0.10 dB @ 850 nm | 0.30 dB @ 1,300 nm
0.50 dB @ 1,300 nm | 0.50 dB @ 850 nm
8.9 N | 2.001 lbf
$1.3 \mathrm{~N} \mid 0.292 \mathrm{lbf}$18

## CS-5X-LT-3.0/1.0/093

## Optical Specifications, Wavelength Specific

## 1 Gbps Ethernet Distance <br> 10 Gbps Ethernet Distance <br> Attenuation, maximum <br> Backscatter Coefficient <br> Bandwidth, Laser, minimum <br> Bandwidth, OFL, minimum <br> Differential Mode Delay <br> Differential Mode Delay Note <br> Index of Refraction <br> Standards Compliance <br> Environmental Specifications

## Heat Aging, maximum

Temperature Dependence, maximum
Temperature Humidity Cycling, maximum
Water Immersion, maximum

1,110 m @ 850 nm | 600 m @ 1,300 nm<br>550 m @ 850 nm<br>1.00 dB/km @ 1,300 nm | 3.00 dB/km @ 850 nm<br>-68.0 dB @ 850 nm | -75.7 dB @ 1,300 nm<br>4,700 MHz-km @ 850 nm | $500 \mathrm{MHz-km} @ 1,300 \mathrm{~nm}$<br>3,500 MHz-km @ 850 nm | $500 \mathrm{MHz-km} @ 1,300 \mathrm{~nm}$<br>$0.70 \mathrm{ps} / \mathrm{m} @ 850 \mathrm{~nm}$ | $0.88 \mathrm{ps} / \mathrm{m}$ @ 1,300 nm<br>Superior to TIA-492AAAC and IEC 60793-2-10 at 850 nm<br>1.479 @ 1,300 nm | 1.483 @ 850 nm<br>IEC 60793-2-10, type A1a.3a | IEC 60793-2-10, type A1a.3b | TIA492AAAD (OM4)

0.20 dB/km @ $85^{\circ} \mathrm{C}$
$0.1 \mathrm{~dB} / \mathrm{km}$
0.2 dB/km
$0.20 \mathrm{~dB} / \mathrm{km} @ 23^{\circ} \mathrm{C}$

## * Footnotes

| Temperature Dependence, maximum | Temperature dependence is conducted at $-60{ }^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}\left(-76^{\circ} \mathrm{F}\right.$ to $\left.+185^{\circ} \mathrm{F}\right)$ |
| :--- | :--- |
| Temperature Humidity Cycling, maximum | Temperature humidity cycling is conducted at $-10{ }^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}\left(+14^{\circ} \mathrm{F}\right.$ to $\left.+185^{\circ} \mathrm{F}\right)$ |
|  | up to $95 \%$ relative humidity |

