## 2-599683-4 | O-012-CA-8W-M12BK/28G/GY/HD

Outside Plant Fiber Optic Cable, HDPE, 12-fiber, OS2, loose tube, gelfilled. Provides Rodent Resistance.

## Product Classification

Regional Availability
Portfolio
Product Type
Product Series

## General Specifications

## Armor Type

Cable Type
Subunit Type
Filler, quantity
Jacket Color
Jacket Marking
Jacket Marking Method
Jacket Marking Text

Fibers per Subunit, quantity
Total Fiber Count
Dimensions
Cable Length
Diameter Over Jacket
Material Specifications
Jacket Material

Australia/New Zealand | EMEA
CommScope®
Fiber OSP cable
O-CA

## Corrugated steel

Loose tube
Gel-filled
1
Black
Meters
Inkjet
COMMSCOPE GB SYSTEM F.O. CABLE X-599683-4 CSA GEL LOOSE TUBE 12X9/125 OS2 HDPE (Serial NUMBER) (METRE MARK)

12
12

```
\(2000 \mathrm{~m} \mid 6,561.68 \mathrm{ft}\)
```

10 mm | 0.394 in

High density polyethylene (HDPE)

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## Mechanical Specifications

Minimum Bend Radius, loaded
Minimum Bend Radius, unloaded
Tensile Load, long term, maximum
Tensile Load, short term, maximum
Flex
200.7 mm | 7.902 in

160 mm | 6.299 in
625 N | 140.506 lbf
1200 N | 269.771 lbf
25 cycles

## Optical Specifications

Fiber Type OS2

## Optical Specifications, Wavelength Specific

| Attenuation, maximum | $0.35 \mathrm{~dB} / \mathrm{km} @ 1,300 \mathrm{~nm}\|0.35 \mathrm{~dB} / \mathrm{km} @ 1,550 \mathrm{~nm}\| 0.45 \mathrm{~dB} / \mathrm{km} @ 1,310 \mathrm{~nm}$ |
| :--- | :--- |
| Standards Compliance | IEC 60794-1 \| TIA-492CAAB (OS2) |

## Environmental Specifications

Installation temperature
Operating Temperature
Storage Temperature
$-5^{\circ} \mathrm{C}$ to $+50^{\circ} \mathrm{C}\left(+23^{\circ} \mathrm{F}\right.$ to $\left.+122^{\circ} \mathrm{F}\right)$
$-20^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}\left(-4^{\circ} \mathrm{F}\right.$ to $\left.+158^{\circ} \mathrm{F}\right)$
$-20^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}\left(-4^{\circ} \mathrm{F}\right.$ to $\left.+158^{\circ} \mathrm{F}\right)$

Packaging and Weights
Cable weight
104 kg/km | $69.885 \mathrm{lb} / \mathrm{kft}$
Regulatory Compliance/Certifications

Agency
CHINA-ROHS
REACH-SVHC
ROHS
UK-ROHS

## Classification

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

## Included Products

CS-8W-LT

- TeraSPEED® G652D/G657A1 Singlemode Fiber


## 2-599683-4 | O-012-CA-8W-Ml2BK/28G/GY/HD

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

## CS-8W-LT

## TeraSPEED® G652D/G657Al Singlemode Fiber

## TeraSPEED ${ }^{\circledR}$

## Product Classification

```
Portfolio
Product Type
General Specifications
Cladding Diameter 125 \mum
Cladding Diameter Tolerance
\pm0.7 \mum
Cladding Non-Circularity, maximum 0.7%
Coating Diameter (Colored)
249 \mum
Coating Diameter (Uncolored)\(242 \mu \mathrm{~m}\)
```

Coating Diameter Tolerance (Colored) ..... $\pm 13 \mu \mathrm{~m}$
Coating Diameter Tolerance (Uncolored) ..... $\pm 5 \mu \mathrm{~m}$
Coating/Cladding Concentricity Error, maximum ..... $12 \mu \mathrm{~m}$
Core Diameter ..... $8.3 \mu \mathrm{~m}$
Core/Clad Offset, maximum ..... $0.5 \mu \mathrm{~m}$
Proof Test

```\(689.476 \mathrm{~N} / \mathrm{mm}^{2}\) | 100000 psi
CommScope®
Optical fiber
\(125 \mu \mathrm{~m}\)
\(\pm 0.7 \mu \mathrm{~m}\)
0.7 \%
\(249 \mu \mathrm{~m}\)
100000 psi
```


## Dimensions

Fiber Curl, minimum

## Mechanical Specifications

Macrobending, 30 mm Ø mandrel, 10 turns
Macrobending, 60 mm Ø mandrel, 100 turns
Coating Strip Force, maximum
$4 \mathrm{~m} \mathrm{\mid} 13.123 \mathrm{ft}$

## CS-8W-LT

Coating Strip Force, minimum
Dynamic Fatigue Parameter, minimum

## Optical Specifications

Cabled Cutoff Wavelength, maximum
Point Defects, maximum
Zero Dispersion Slope, maximum
Zero Dispersion Wavelength, maximum
Zero Dispersion Wavelength, minimum

## Optical Specifications, Wavelength Specific

## Attenuation, maximum

Attenuation, typical
Backscatter Coefficient
Dispersion, maximum

Index of Refraction

Mode Field Diameter

Mode Field Diameter Tolerance

Polarization Mode Dispersion Link Design Value, maximum
Standards Compliance

### 1.3 N | 0.292 lbf

 201260 nm
0.1 dB
0.092 ps/[km-nm-nm]

1324 nm
1300 nm

## Environmental Specifications

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

## Regulatory Compliance/Certifications

$0.05 \mathrm{~dB} / \mathrm{km} @ 85^{\circ} \mathrm{C}$
0.05 dB/km
$0.05 \mathrm{~dB} / \mathrm{km}$
$0.05 \mathrm{~dB} / \mathrm{km} @ 23^{\circ} \mathrm{C}$

## CS-8W-LT

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

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

