

Pushable Indoor/Outdoor Universal Low Smoke Zero Halogen single fiber tight buffer low friction drop cable

- Offers maximum efficiency when used in duct sizes ranging from 1/8" (6mm) to 3/8" (10mm) inner diameter
- Pushable up to 500ft (150m) by hand without the assistance of air, and up to nearly 1970ft (600m) with air
- Flexible, yet stiff construction of the fluted outer jacket allows speedy installation with and without the use of air

## Product Classification

**Portfolio**

NETCONNECT®

**Product Type**

Fiber drop cable

**Regional Availability**

Asia | Australia/New Zealand | EMEA | North America

## Standards And Qualifications

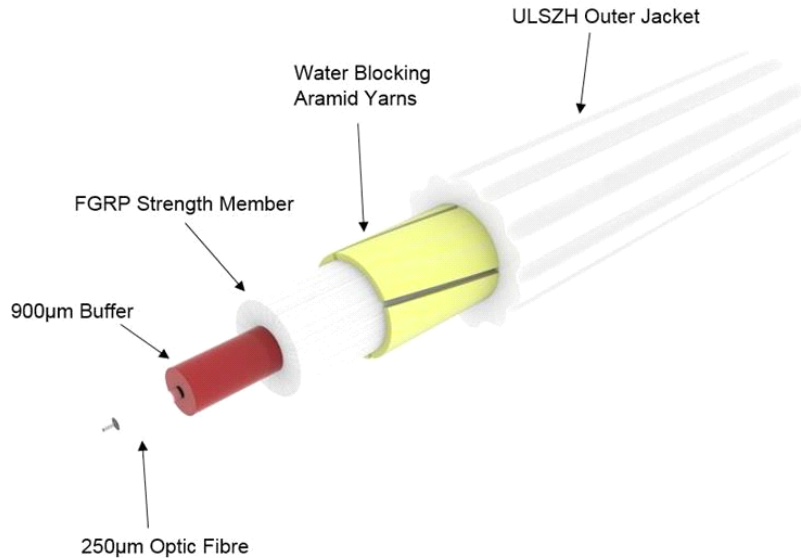
**EN50575 CPR Cable EuroClass**

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**Cable Qualification Standards**

ANSI/ICEA S-104-696 | IEC 60794-1-2 | Telcordia GR-20

## Representative Image



## General Specifications

<b>Cable Type</b>	Tight buffer
<b>Construction Type</b>	Non-armored

## Construction Materials

<b>Jacket Material</b>	Low Smoke Zero Halogen (LSZH)
<b>Total Fiber Count</b>	1
<b>Fiber Type</b>	G.657.A2
<b>Fibers per Subunit, quantity</b>	1
<b>Inner Jacket Color</b>	Red
<b>Jacket Color</b>	Black
<b>Jacket UV Resistance</b>	UV stabilized

## Dimensions

<b>Buffer Tube/Subunit Diameter</b>	0.90 mm   0.04 in
<b>Cable Length</b>	1524 m   5000 ft

**Cable Weight** 14.0 kg/km  
**Diameter Over Jacket** 3.50 mm | 0.14 in

## Physical Specifications

**Minimum Bend Radius, loaded** 7.5 cm | 3.0 in  
**Tensile Load, long term, maximum** 295 N | 66 lbf  
**Tensile Load, short term, maximum** 850 N | 191 lbf

## Environmental Specifications

**Environmental Space** Air-blown, microduct | Universal Low Smoke Zero Halogen (ULSZH)  
**Installation Temperature** -10 °C to +60 °C (+14 °F to +140 °F)  
**Operating Temperature** -40 °C to +70 °C (-40 °F to +158 °F)  
**Storage Temperature** -40 °C to +70 °C (-40 °F to +158 °F)

## Mechanical Test Specifications

**Compression** 220000 N/mm  
**Compression Test Method** FOTP-41  
**Flex** 25 cycles  
**Flex Test Method** FOTP-104  
**Impact** 2.90 N-m | 2.14 ft lb  
**Impact Test Method** FOTP-25  
**Strain** See long and short term tensile loads  
**Strain Test Method** FOTP-33  
**Twist** 10 cycles  
**Twist Test Method** FOTP-85

## Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant
CENELEC	EN 50575 compliant, Declaration of Performance (DoP) available



## Included Products

CS-8G-TB (Product Component—not orderable) — Enhanced Low Macrobending, Zero Water Peak, Dispersion-Unshifted Singlemode Fiber (ITU-T G.657.A2, B2)

\* Footnotes

**Operating Temperature** Specification applicable to non-terminated bulk fiber cable

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

## Product Classification

<b>Portfolio</b>	CommScope®
<b>Product Type</b>	Optical fiber

## Optical Specifications, Wavelength Specific

<b>Standards Compliance</b>	ITU-T G.657.A2   ITU-T G.657.B2
<b>Attenuation, maximum</b>	0.50 dB/km @ 1,310 nm   0.50 dB/km @ 1,385 nm   0.50 dB/km @ 1,550 nm
<b>Dispersion, maximum</b>	18 ps(nm-km) at 1550 nm   3.5 ps(nm-km) from 1285 nm to 1330 nm at 1310 nm
<b>Mode Field Diameter</b>	8.8 μm @ 1,310 nm   9.9 μm @ 1,550 nm
<b>Mode Field Diameter Tolerance</b>	±0.4 μm @ 1310 nm   ±0.5 μm @ 1550 nm
<b>Index of Refraction</b>	1.467 @ 1,310 nm   1.467 @ 1,385 nm   1.468 @ 1,550 nm
<b>Polarization Mode Dispersion Link Design Value, maximum</b>	0.06 ps/sqrt(km)

## Physical Specifications

<b>Cladding Diameter</b>	125.0 μm
<b>Cladding Diameter Tolerance</b>	±0.7 μm
<b>Cladding Non-Circularity, maximum</b>	0.7 %
<b>Coating Diameter (Colored)</b>	254 μm
<b>Coating Diameter (Uncolored)</b>	240 μm
<b>Coating Diameter Tolerance (Colored)</b>	±7 μm
<b>Coating Diameter Tolerance (Uncolored)</b>	±5 μm
<b>Coating/Cladding Concentricity Error, maximum</b>	12 μm
<b>Core/Clad Offset, maximum</b>	0.5 μm

## Optical Specifications, General

<b>Cabled Cutoff Wavelength, maximum</b>	1260 nm
<b>Point Defects, maximum</b>	0.10 dB
<b>Zero Dispersion Slope, maximum</b>	0.092 ps/[km-nm-nm]
<b>Zero Dispersion Wavelength, maximum</b>	1322 nm
<b>Zero Dispersion Wavelength, minimum</b>	1302 nm

## Mechanical Specifications

<b>Coating Strip Force, maximum</b>	8.9 N   2.0 lbf
<b>Coating Strip Force, minimum</b>	1.3 N   0.3 lbf

<b>Dynamic Fatigue Parameter, minimum</b>	20
<b>Fiber Curl, minimum</b>	4.0 m   13.1 ft
<b>Macrobending, 15 mm mandrel, 1 turn</b>	0.50 dB @ 1,550 nm   1.00 dB @ 1,625 nm
<b>Macrobending, 20 mm mandrel, 1 turn</b>	0.10 dB @ 1,550 nm   0.20 dB @ 1,625 nm
<b>Macrobending, 30 mm mandrel, 10 turns</b>	0.03 dB @ 1,550 nm   0.10 dB @ 1,625 nm
<b>Proof Test</b>	689.48 N/mm <sup>2</sup>   100000.00 psi

## Environmental Specifications

<b>Heat Aging, maximum</b>	0.05 dB/km @ 85 °C
<b>Temperature Dependence, maximum</b>	0.05 dB/km
<b>Temperature Humidity Cycling, maximum</b>	0.05 dB/km
<b>Water Immersion, maximum</b>	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

<b>Temperature Dependence, maximum</b>	Temperature dependence is conducted at -60 °C to +85 °C (-76 °F to +185 °F)
<b>Temperature Humidity Cycling, maximum</b>	Temperature humidity cycling is conducted at -10 °C to +85 °C (+14 °F to +185 °F) up to 95% relative humidity