760241355 | D-1440-LN-RR-F12NS/8W/99H



Fiber OSP cable, Non-Armored, All-Dielectric, Gel-Free, Stranded Loose Tube Rollable Ribbon, 1440 fiber, Singlemode G.652.D and G.657.A1, Feet jacket marking, Black jacket color

Product Classification

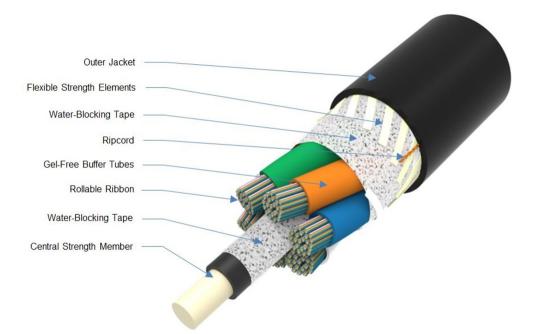
Regional Availability	Asia Australia/New Zealand EMEA Latin America North America
Portfolio	CommScope®
Product Type	Fiber OSP cable
Product Series	D-LN
General Specifications	
Cable Type	Ribbon loose tube
Construction Type	Non-armored
Subunit Type	Gel-free
Fibers per Ribbon, quantity	12
Filler, quantity	1
Jacket Color	Black
Jacket Marking	Feet
Subunit, quantity	5
Fibers per Subunit, quantity	288
Total Fiber Count	1440
Dimensions	
Buffer Tube/Subunit Diameter	7 mm 0.276 in
Diameter Over Jacket	25.1 mm 0.988 in
Representative Image	

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Mechanical Specifications

Minimum Bend Radius, loaded	377 mm 14.843 in
Minimum Bend Radius, unloaded	377 mm 14.843 in
Tensile Load, long term, maximum	1481 N 332.942 lbf
Tensile Load, short term, maximum	4488 N 1,008.943 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

G.652.D and G.657.A1 | G.652.D and G.657.A1

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Environmental Specifications

Installation temperature	-30 °C to +60 °C (-22 °F to +140 °F)
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Storage Temperature	-40 °C to +75 °C (-40 °F to +167 °F)
Cable Qualification Standards	ANSI/ICEA S-87-640 RUS PE-90 (7CFR 1755.900) 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 °C to +60 °C (-22 °F to +140 °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

Agency

460 kg/km | 309.106 lb/kft

Regulatory Compliance/Certifications

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

Included Products

CS-8W-RR-OUTDOOR - TeraSPEED® Singlemode Fiber Rollable Ribbon

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

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CS-8W-RR-OUTDOOR

TeraSPEED®

TeraSPEED® Singlemode Fiber Rollable Ribbon

Product Classification

Portfolio	CommScope®
Product Type	Optical fiber
General Specifications	
Cladding Diameter	125 µm
Cladding Diameter Tolerance	±0.7 μm
Cladding Non-Circularity, maximum	0.7 %
Coating Diameter (Colored)	249 µm
Coating Diameter (Uncolored)	242 µm
Coating Diameter Tolerance (Colored)	±13 μm
Coating Diameter Tolerance (Uncolored)	±5 μm
Coating/Cladding Concentricity Error, maximum	12 μm
Core Diameter	8.3 µm
Core/Clad Offset, maximum	0.5 µm
Proof Tensile Stress	100,000 psi (0.69 GPa)
Dimensions	
Fiber Curl, minimum	4 m 13.123 ft
Mechanical Specifications	
Macrobending, 20 mm Ø mandrel, 1 turn	0.75 dB @ 1,550 nm 1.50 dB @ 1,625 nm
Macrobending, 30 mm Ø mandrel, 10 turns	0.25 dB @ 1,550 nm 1.00 dB @ 1,625 nm
Macrobending, 60 mm Ø mandrel, 100 turns	0.05 dB @ 1,550 nm 0.05 dB @ 1,625 nm
Coating Strip Force, maximum	8.9 N 2.001 lbf
Coating Strip Force, minimum	1.3 N 0.292 lbf
Dynamic Fatigue Parameter, minimum	20

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CS-8W-RR-OUTDOOR

Optical Specifications Cabled Cutoff Wavelength, maximum 1260 nm 0.1 dB Point Defects, maximum Zero Dispersion Slope, maximum 0.092 ps/[km-nm-nm] Zero Dispersion Wavelength, maximum 1324 nm Zero Dispersion Wavelength, minimum 1300 nm Optical Specifications, Wavelength Specific Attenuation, maximum 0.3 dB/km @ 1,550 nm | 0.4 dB/km @ 1,310 nm | 0.4 dB/km @ 1,383 nm Attenuation, typical 0.22 dB/km @ 1,550 nm | 0.3 dB/km @ 1,383 nm | 0.35 dB/km @ 1,310 nm **Backscatter Coefficient** -79.6 dB @ 1,310 nm | -82.1 dB @ 1,550 nm 18 ps(nm-km) at 1550 nm | 3.5 ps(nm-km) from 1285 **Dispersion**, maximum nm to 1330 nm at 1310 nm Index of Refraction 1.467 @ 1,310 nm | 1.467 @ 1,385 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 ±0.4 µm @ 1310 nm | ±0.5 µm @ 1550 nm | ±0.6 µm @ 1385 nm Polarization Mode Dispersion Link Design Value, maximum 0.04 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

* 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

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