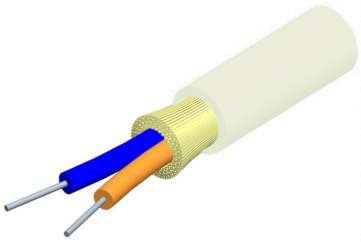
810010527/DB | R-002-IC-8H-F35IV/RNB



Indoor/Outdoor Riser 3.5mm Interconnect, dielectric, with 900um Buffers, 2-fiber, Singlemode G.657.B3,Gel-free, Feet jacket marking, Ivory jacket color

- *Product complies with the Build America, Buy America Act (BABAA) requirements of the Infrastructure Investment and Jobs Act of 2021 (Pub. L. 117- 58, §§ 70901-70953), or is the subject of a waiver approved by the Secretary of Commerce or designee. Compliance requirements and waiver applicability vary based on government funding program. Check the laws and regulations for your specific program.

Product Classification

Regional Availability	Asia | Australia/New Zealand | EMEA | Latin America | North America
Portfolio	CommScope®
Product Type	Fiber drop cable
Government Requirements	Build America Buy America (BABA) compliant*

General Specifications

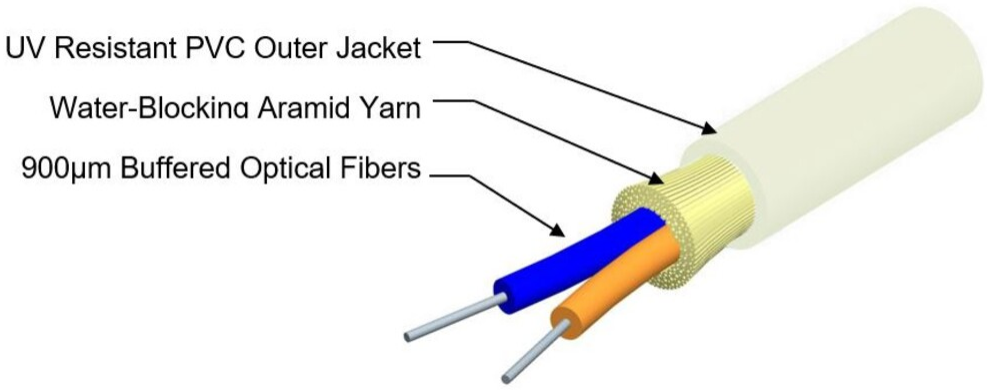
Cable Type	Drop
Construction Type	Non-armored
Subunit Type	Gel-free
Jacket Color	Ivory
Jacket Marking	Feet
Location of Manufacturing	Catawba, North Carolina | Claremont, North Carolina
Total Fiber Count	2

Dimensions

Diameter Over Jacket	3.5 mm | 0.138 in

Representative Image

810010527/DB | R-002-IC-8H-F35IV/RNB



Material Specifications

Jacket Material	PVC

Mechanical Specifications

Minimum Bend Radius, loaded	4 mm | 0.157 in
Minimum Bend Radius, unloaded	4 mm | 0.157 in
Tensile Load, long term, maximum	93 N | 20.907 lbf
Tensile Load, short term, maximum	311 N | 69.916 lbf
Compression	3.5 N/mm | 19.986 lb/in
Compression Test Method	FOTP-41 | IEC 60794-1 E3
Flex	300 cycles
Flex Test Method	FOTP-104 | IEC 60794-1 E6
Impact	0.74 N-m | 6.55 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
Vertical Rise, maximum	500 m | 1,640.42 ft

Optical Specifications

Fiber Type	G.657.B3

Environmental Specifications

Installation temperature	-5 °C to +60 °C (+23 °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)
Cable Qualification Standards	ANSI/ICEA S-83-596
Environmental Space	Drop | Indoor/Outdoor | Riser | Sunlight resistant
Flame Test Listing	NEC OFNR (ETL) and c(ETL) | UL 1666
Flame Test Method	FT4 | UL 1666
Jacket UV Resistance	UV stabilized
Water Penetration	24 h
Water Penetration Test Method	FOTP-82 | IEC 60794-1 F5

Environmental Test Specifications

Low High Bend	0 °C to +60 °C (+32 °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	12.54 kg/km | 8.426 lb/kft
Packaging Type	Reel in box

Included Products

CS-8H-TB	–	Ultra Low Macrobending, Zero Water Peak, Dispersion-Unshifted Singlemode Fiber (ITU-T G. 657.B3)

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

CS-8H-TB

Ultra Low Macrobending, Zero Water Peak, Dispersion-Unshifted Singlemode Fiber (ITU-T G.657. B3)

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)	250 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/Clad Offset, maximum	0.5 µm
Proof Test	689.476 N/mm² | 100000 psi

Dimensions

Fiber Curl, minimum	4 m | 13.123 ft

Mechanical Specifications

Macrobending, 15 mm Ø mandrel, 1 turn	0.08 dB @ 1,550 nm | 0.25 dB @ 1,625 nm
Macrobending, 20 mm Ø mandrel, 1 turn	0.03 dB @ 1,550 nm | 0.10 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

Optical Specifications

Cabled Cutoff Wavelength, maximum	1260 nm
Point Defects, maximum	0.1 dB
Zero Dispersion Slope, maximum	0.092 ps/[km-nm-nm]

Zero Dispersion Wavelength, maximum	1324 nm
Zero Dispersion Wavelength, minimum	1304 nm

Optical Specifications, Wavelength Specific

Attenuation, maximum	0.3 dB/km @ 1,550 nm | 0.4 dB/km @ 1,310 nm | 0.40 dB/km @ 1,385 nm
Attenuation, typical	0.20 dB/m @ 1,550 nm | 0.34 dB/km @ 1,310 nm
Dispersion, maximum	18 ps(nm-km) at 1550 nm | 3.5 ps(nm-km) from 1285 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	8.6 µm @ 1,310 nm | 9.7 µm @ 1,550 nm
Mode Field Diameter Tolerance	±0.4 µm @ 1310 nm | ±0.5 µm @ 1550 nm
Polarization Mode Dispersion Link Design Value, maximum	0.06 ps/sqrt(km)
Standards Compliance	ITU-T G.657.B3

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