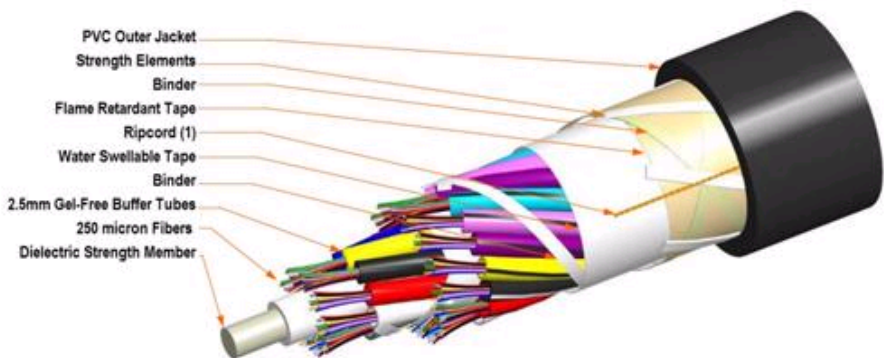




760086652 | R-144-LN-8W-F12BK/25D

Indoor/Outdoor Single Jacket All-Dielectric Riser Rated Stranded Loose Tube Gel-Free Cable

Representative Image



General Specifications

Cable Type	Stranded loose tube
Construction Type	Non-armored
Subunit Type	Gel-free

Construction Materials

Fiber Type Solution	TeraSPEED®, zero water peak singlemode fiber
Total Fiber Quantity	144
Fiber Type	TeraSPEED®, zero water peak singlemode fiber
Fiber Type, quantity	144
Fibers Per Subunit, quantity	12
Jacket Color	Black
Jacket UV Resistance	UV stabilized

Dimensions

Buffer Tube/Subunit Diameter	2.50 mm 0.10 in
Cable Weight	264.0 kg/km 178.0 lb/kft
Diameter Over Jacket	17.10 mm 0.67 in
Subunit, quantity	12

Physical Specifications

Minimum Bend Radius, loaded	25.7 cm 10.1 in
Minimum Bend Radius, unloaded	17.1 cm 6.7 in
Tensile Load, long term, maximum	800 N 180 lbf

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Tensile Load, short term, maximum 2700 N | 607 lbf
Vertical Rise, maximum 309.0 m | 1013.8 ft

Flame Test Specifications

Flame Test Listing	NEC OFNR (ETL) and c(ETL)
Flame Test Method	UL 1666

Environmental Specifications

Environmental Space	Riser
Installation Temperature	-30 °C to +70 °C (-22 °F to +158 °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)

Mechanical Test Specifications

Compression	22 N/mm 125 lb/in
Compression Test Method	FOTP-41 IEC 60794-1-2, Section 7
Flex	35 cycles
Flex Test Method	FOTP-24 IEC 60794-1-2, Section 10
Impact	5.88 N-m 4.34 ft lb
Impact Test Method	FOTP-25 IEC 60794-1-2, Section 8
Strain	See long and short term tensile loads
Strain Test Method	FOTP-33 IEC 60794-1-2, Section 5
Twist	10 cycles
Twist Test Method	FOTP-85 IEC 60794-1-2, Section 11
Water Penetration	24 h
Water Penetration Test Method	FOTP-82 IEC 60794-1-2, Section 24

Environmental Test Specifications

Cable Freeze	-2 °C 28 °F
Cable Freeze Test Method	FOTP-98
Heat Age	-40 °C to +85 °C (-40 °F to +185 °F)
Heat Age Test Method	Not applicable
Low High Bend	-30 °C to +60 °C (-22 °F to +140 °F)
Low High Bend Test Method	FOTP-28 IEC 60794-1-2, Section 28
Temperature Cycle	-40 °C to +70 °C (-40 °F to +158 °F)
Temperature Cycle Test Method	FOTP-3 IEC 60794-1-2, Section 22

Qualification Specifications

Cable Qualification Standards	ANSI/ICEA S-104-696-2001 EN 187105 Telcordia GR -409-CORE Issue 2
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Regulatory Compliance/Certifications

Agency	Classification
RoHS 2002/95/EC	Compliant
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system

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Included Products

CS-8W-IOLT (Product Component—not orderable) — TeraSPEED® OS2 Singlemode Fiber