

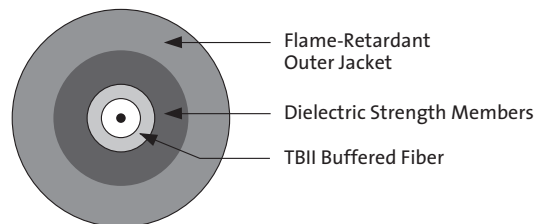
Single-Fiber Riser Cables

A LANscape® Solutions Product

Corning
Cable Systems

Description

Corning Cable Systems Single-Fiber Riser Cable uses a 900 µm TBII® Tight-Buffered Fiber surrounded by aramid yarn strength members and an improved flexible, flame-retardant jacket. These cables meet the application requirements of the National Electrical Code® (NEC® Article 770) and are listed as Type OFNR.



Single-Fiber Cable | Drawing ZA-393

Specifications

Fiber Types (Core/Cladding Diameters)	62.5/125 µm, 50/125 µm, 8.3/125 µm
Buffering Diameter	900 µm
Operating Temperature	Storage: -40° to +70°C (-40° to +158°F) Operation: 0° to +70°C (+32° to +158°F)
Approvals, Listings and Standards	NEC OFNR, CSA FT-4, ICEA S-83-596
Flame Resistance	UL-1666 (for riser and general purpose building applications)

Fiber Count	Nominal Outside Diameter mm (in)	Nominal Weight kg/km (lb/1000 ft)	Maximum Tensile Loads		Minimum Bend Radius	
			Short-Term N (lbf)	Long-Term N (lbf)	Loaded cm (in)	Installed cm (in)
1	2.9 (0.11)	6.4 (4.3)	220 (48)	66 (15)	5.0 (2.0)	2.5 (1.0)
1	2.0 (0.08)	3.8 (2.5)	220 (48)	66 (15)	5.0 (2.0)	2.5 (1.0)
1	1.6 (0.06)	2.5 (1.7)	150 (33)	45 (10)	5.0 (2.0)	2.5 (1.0)

Note: Installed minimum bend radius of 20 mm is acceptable with a length no longer than 1 meter subjected to the bend.



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Transmission Performance

Fiber Code	K	C	S	S	E
Performance Option Code	41	31	80	90	31
Fiber Type	62.5/125 μm (850/1300 nm)	50/125 μm (850/1300 nm)	50/125 μm (850/1300 nm)	50/125 μm (850/1300 nm)	Single-mode (1310/1383/1550 nm)
Maximum Attenuation (dB/km)	3.75/1.5	3.5/1.5	3.0/1.5	3.0/1.5	1.0/1.0/0.75
Minimum LED Bandwidth (MHz•km)	160/500	500/500	1500/500	1500/500	- / - / -
Minimum Effective Modal Bandwidth (MHz•km)	*- / -	*510/ -	**2000/ -	***4700/ -	- / - / -
Serial Gigabit Ethernet Distance (m)	220/550	600/600	1000/600	1000/600	5000/ - / -
Serial 10 Gigabit Ethernet Distance (m)	26/ -	82/ -	300/ -	***550/ -	10000/40000

* As predicted by RML BW, per TLA/EIA 455-204 and IEC 60793-1-41, for intermediate performance laser-based systems (up to 1 Gb/s).

** As predicted by minEMBc, per TLA/EIA 455-220 and IEC 60793-1-49, for high performance laser-based systems (up to 10 Gb/s).

*** As predicted by minEMBc, per TLA/EIA 455-220 and IEC 60793-1-49, for high performance laser-based systems (up to 10 Gb/s).

**** The 550 m distance is equivalent to a 4700 EMB system with standards-compliant transceiver and fiber characteristics, 3.0 dB/km cable attenuation and 1.0 dB total connector loss.

Ordering Information

Contact Customer Service for other options.

0 0 1 3 1 - 3 1 - 2 4
 1 2 3 4 5 6 7 8 9 10 11 12 13 14

1 - 3 Fiber count (001).

4 Select fiber code (see Transmission Performance Table).

5 / 12 Defines cable type.

3/- = Single-Fiber cable

6 Defines outer jacket.

1 = Riser

7 / 8 Defines fiber placement and markings.

31 = Single-fiber cable, feet markings

9 Defines diameter options.

1 = 2.9 mm

3 = 2.0 mm

4 = 1.6 mm

10 - 11 Select performance option code (see Transmission Performance Table).

13 - 14 Defines special manufacturing code.

24 = Single-fiber

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