

Single-Fiber Riser Cables

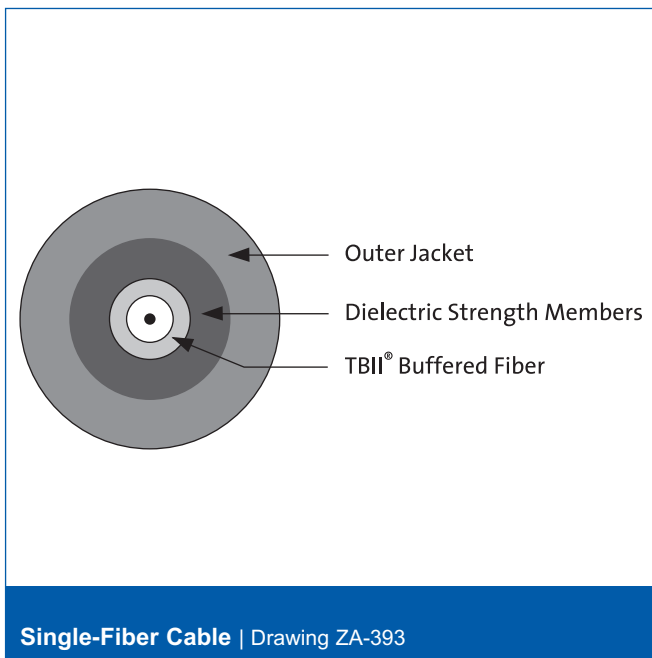
A LANscape®
Solutions Product

features and benefits |

Meet NEC® requirements Meets burn test criteria

All-dielectric strength member Mechanical durability

Corning Cable Systems Single-Fiber Riser Cables are designed for interconnect applications. A 900 µm TBII® Buffered Fiber is surrounded by aramid yarn strength members and a flame-retardant jacket. Dielectric strength members offer mechanical durability and the flame-resistant jacket meets UL-1666 requirements for riser and general purpose building applications. Also meeting requirements of the National Electric Code® (NEC®) Article 770, the cables are OFNR and CSA FT-4 listed.



Single-Fiber Riser Cables

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specifications |

Temperatures	Storage: -40° to +70°C (-40° to +158°F) Operation: -20° to +70°C (-4° to +158°F)
Fiber Types (Core/Cladding Diameters)	50/125 µm, 62.5/125 µm, single-mode
Buffering Diameter	900 µm
Approvals, Listings and Standards	National Electrical Code® (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) Single-mode Multimode	
1	2.9 (0.11)	6.4 (4.3)	220 (50)	66 (15)	5.0 (2.0)	2.5 (1.0)	1.5 (0.55)
1	2.0 (0.08)	3.4 (2.3)	220 (50)	66 (15)	5.0 (2.0)	2.5 (1.0)	1.0 (0.40)
1	1.6 (0.06)	2.3 (1.5)	150 (33)	45 (10)	5.0 (2.0)	2.5 (1.0)	0.8 (0.30)

Note:

Installed single-mode minimum bend radius of 20 mm is acceptable with a length no longer than 1 m subjected to the bend.

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transmission performance |

	LANscape® 62.5 Solutions	LANscape Pretium® 150 Solutions	LANscape Pretium 300 Solutions	LANscape Pretium 550 Solutions	LANscape Pretium 600 Solutions	Single-Mode
Fiber Code	K	T	T	T	T	E
Performance Option Code	30	31	80	90	91	31
Optical Fiber Type (µm)	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode	50 Multimode	Single-mode****
ISO/IEC 11801 Nomenclature	OM1	OM2	OM3***	OM4***	OM4***	OS2
Wavelength (nm)	850/1300	850/1300	850/1300	850/1300	850/1300	1310/1383/1550
Maximum Attenuation (dB/km)	3.4/1.0	2.8/1.0	2.8/1.0	2.8/1.0	2.8/1.0	0.65/0.65/0.50
Minimum Over Filled Launch (OFL) Bandwidth (MHz•km)	200/500	700/500	1500/500	3500/500	3500/500	- / - / -
Minimum Effective Modal Bandwidth (EMB) (MHz•km)	220/ -	950/ -	2000/ -	4700/ -	5350/ -	- / - / -
Serial 1 Gigabit Ethernet Distance (m)	300/550	750/600	1000/600	1000/600	1000/600	5000 / - / -
Serial 10 Gigabit Ethernet Distance (m)	33/ -	150/ -	300/ -	550*/ -	600**/ -	10000/ - /40000

* Assumes 1.0 dB maximum total connector/splice loss.

** Assumes 0.7 dB maximum total connector/splice loss.

*** Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™ Systems solutions.

**** ITU 652.D compliant.

Notes:

- 1) Improved attenuation and bandwidth options available.
- 2) Bend-insensitive single-mode fibers available on request.
- 3) Contact a Corning Cable Systems Customer Service Representative for additional information.
- 4) 50 µm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for 2 turns around 7.5 mm radius mandrel.

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ordering information | Contact Customer Service at 800-743-2671 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

Defines 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 = Standard for riser

|7-8

Defines fiber placement and markings.
31 = Single-fiber cable, feet markings

|9

Select 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 = Standard for single-fiber riser cables

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