

# Single-Fiber Riser Cables

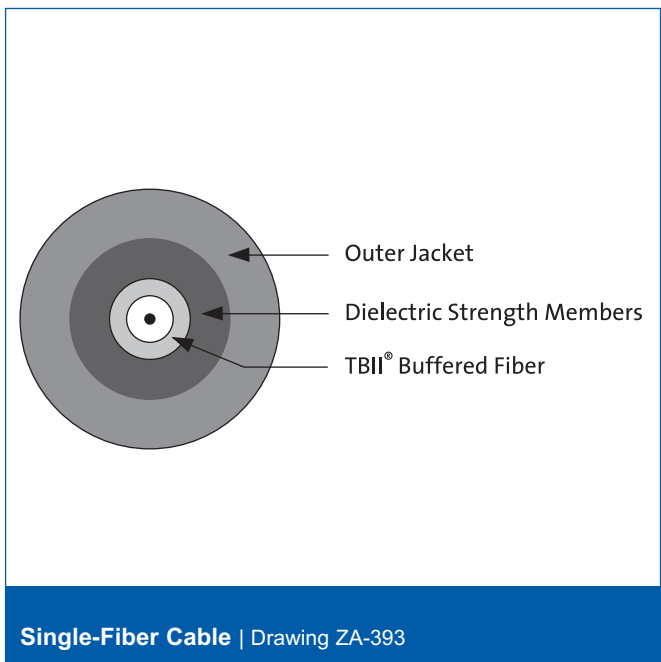
A LANscape®  
Solutions Product

## 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.



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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 Short-Term N (lbf)Long-Term N (lbf)		Minimum Bend Radius Loaded cm (in)	Installed – cm (in) Single-modeMultimode	
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	<input type="checkbox"/>	3	1	-	3	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-	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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