

ClearCurve® Single-Mode, Single-Fiber Riser and Plenum Cables

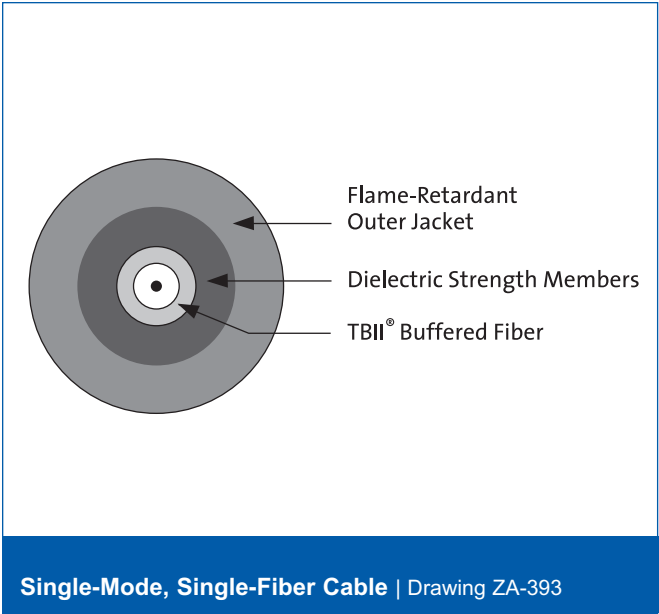
A LANscape®
Passive Optical
Solutions Product

features and benefits |

Smaller outer diameter, lighter weight and smaller minimum bend radius than typical CAT 5e or CAT 6 cable	Higher bandwidth carrying capacity of optical fiber and easy installation
Rugged, bend-insensitive cable design	Installation in cable trays or J-hooks without fear of performance degradation
Self-bend-limiting design	Ideal for fiber-to-the-desk and passive optical networks (PON) applications with the ability to route cable around tight corners down to 5 mm (0.2 in) radius
Available in Riser or Plenum	Versatility

Corning Cable Systems ClearCurve® Single-Mode, Single-Fiber Riser and Plenum Cables are part of a product family developed to solve the challenges associated with fiber-to-the-desk (FTTD) deployments. Enabled by the truly bend-insensitive ClearCurve single-mode fiber, this small-profile yet durable cable is optimized for applications within the work area. These single-fiber cables can accomplish tight turns to a minimum bend radius of 5 mm (0.2 in) with negligible bend loss and can be run under carpet, along door frames and molding, in raceway or microduct.

The cable consists of a single bend-insensitive fiber tight-buffered with a 900 µm jacket, surrounded by aramid yarn strength members and an outer flame-retardant jacket. With a standard yellow jacket, this cable is available in riser rated (OFNR) or plenum rated (OFNP) options.



ClearCurve® Single-Mode, Single-Fiber Riser and Plenum Cables

A LANscape®
Passive Optical
Solutions Product

specifications |

Temperatures	Storage:	-40° to +70°C (-40° to +158°F)
	Operation:	0° to +70°C (+32° to +158°F) Plenum -20° to +70°C (-4° to +158°F) Riser
Fiber Types (Core/Cladding Diameters)	Single-mode	
Buffering Diameter	900 µm	
Approvals and Listings	Plenum: National Electrical Code® (NEC®) OFNP, CSA FT-6, ICEA S-83-596 Riser: National Electrical Code (NEC) OFNR, CSA FT-4, ICEA S-83-596	
Flame Resistance	NFPA 262 (for plenum, riser and general purpose building applications) UL-1666 (for riser and general purpose building applications)	

Cable Type	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 mm (in)	Installed mm (in)
Plenum	1	2.9 (0.11)	7.4 (5.0)	220 (50)	66 (15)	5.0 (0.2)	5.0 (0.2)
Riser	1	2.9 (0.11)	6.4 (4.3)	220 (50)	66 (15)	5.0 (0.2)	5.0 (0.2)

Note:
Single-fiber cable products with ClearCurve Single-Mode Fiber have a minimum bend radius of 5.0 mm (0.2 in). So as not to exceed the minimum bend, Corning Cable Systems recommends that routing guides or alternate bend control mechanisms are in place.

ClearCurve® Single-Mode, Single-Fiber Riser and Plenum Cables

A LANscape®
Passive Optical
Solutions Product

transmission performance |

	ClearCurve® Single-Mode
Fiber Code	U
Performance Option Code	31
Optical Fiber Type (µm)	Single-mode*
ISO/IEC 11801 Nomenclature	OS2
Wavelength (nm)	1310/1383/1550
Maximum Attenuation (dB/km)	0.65/0.65/0.50
Serial 1 Gigabit Ethernet Distance (m)	5000 / – / –
Serial 10 Gigabit Ethernet Distance (m)	10000/ – /40000

* ITU 652.D compliant.

Notes:

- 1) Assumes 1.0 dB maximum total connector/splice loss.
- 2) Assumes 0.7 dB maximum total connector/splice loss.

ClearCurve® Single-Mode, Single-Fiber Riser and Plenum Cables

A LANscape®
Passive Optical
Solutions Product

ordering information | Contact Customer Service at 800-743-2671 for other options.

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

|1-3

Defines fiber count
(001).

|4

Defines fiber code.
(ClearCurve Single-
Mode Fiber).

|5 / 12

Defines cable type.
3 / - = Single-fiber cable

|6

Select outer jacket.
1 = Riser
8 = Plenum

|7-8

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

|9

Defines diameter.
1 = 2.9 mm

|10-11

Defines performance
option code (ClearCurve
Single-Mode Fiber).

|13-14

Select special
manufacturing code.
24 = Standard for single-fiber
riser cable
29 = Standard for single-fiber
plenum cable

Corning Cable Systems LLC • PO Box 489 • Hickory, NC 28603-0489 USA
800-743-2675 • FAX: 828-901-5973 • International: +1-828-901-5000 • www.corning.com/cablesystems

Corning Cable Systems reserves the right to improve, enhance and modify the features and specifications of Corning Cable Systems products without prior notification. LANscape is a registered trademark of Corning Cable Systems Brands, Inc. ClearCurve is a registered trademark of Corning Incorporated. nanoStructures is a trademark of Corning Incorporated. All other trademarks are the properties of their respective owners. Corning Cable Systems is ISO 9001 certified. © 2010 Corning Cable Systems. All rights reserved. Published in the USA.
LAN-1232-EN / March 2010