

FREEDM[®] One Riser Cables

A LANscape[®]
Solutions Product

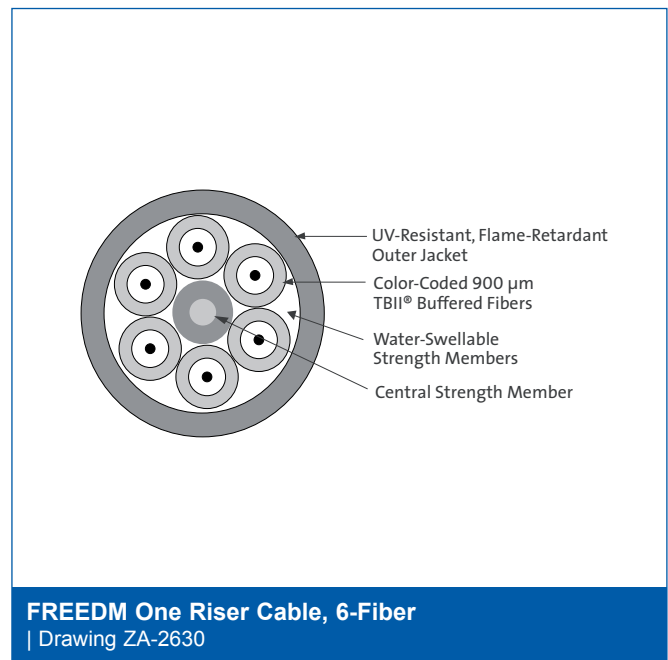
features and benefits |

Waterblocking technology	OSP applications
Small diameter and bend radius	Easy installation in space-constrained areas
Color-coded fibers	Easy identification and consistent stripping
All-dielectric cable construction	Requires no grounding or bonding
UV-resistant, flame-retardant jacket	Rugged, durable and easy to strip

Corning Cable Systems FREEDM[®] One Riser Cables are flame-retardant, UV-resistant, indoor/outdoor cables designed for aerial, duct and direct-buried applications with no need for a transition splice when entering the building. Available in fiber counts of six, 12, 18 and 24 fibers, the tight-buffered construction facilitates easier termination for low-fiber-count applications in the local area network (LAN) and eliminates need for fan-out kits.

The design features TIA-598 color-coded 900 μm TBII[®] Buffered Fibers for easy identification, consistent stripping and direct termination. Available in 50 μm , 62.5 μm , single-mode and hybrid versions, the cable design meets ICEA S-104-696 test criteria and is also OFNR and FT-4 listed for riser and general purpose use. The small diameter and bend radius of the cable allow for easy installation in space-constrained areas while the innovative waterblocking technology is ideal for OSP applications.

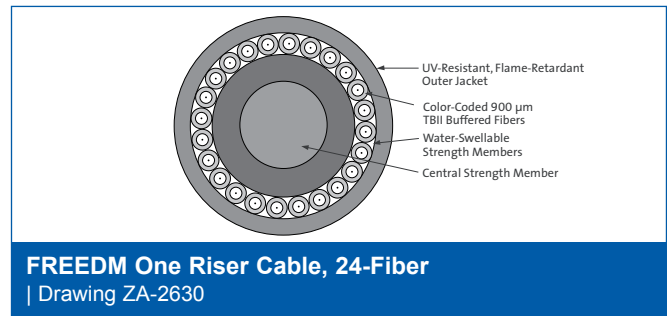
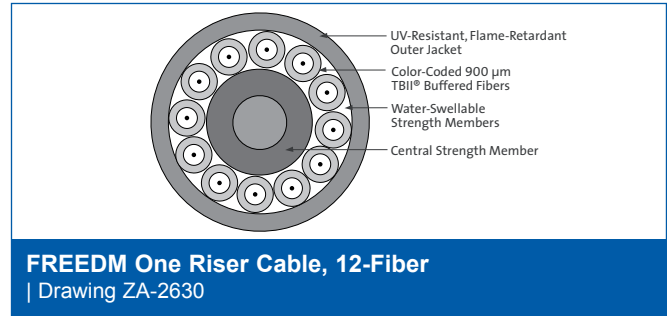
(continued)



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The all-dielectric cable construction requires no grounding or bonding and the UV-resistant, flame-retardant jacket is rugged, durable and easy to strip. This cable is also available with interlocking armor for special applications requiring additional mechanical durability.



specifications |

Temperatures

Storage: -40° to +70°C (-40° to +158°F)
Installation: -10° to +60°C (+14° to +140°F)
Operation: -40° to +70°C (-40° to +158°F)

Approvals and Listings

National Electrical Code[®] (NEC[®]) OFNR, SA, FT-4, ICEA S-104-696

Flame Resistance

UL 1666 (for riser and general purpose building applications)

Fiber Count	Nominal Cable Weight kg/km (lb/1000 ft)	Nominal Outside Diameter mm (in)	Minimum Bend Radius	
			Loaded cm (in)	Installed cm (in)
2	22 (15)	5.2 (.20)	7.8 (3.1)	5.2 (2.0)
4	25 (17)	5.5 (.22)	8.3 (3.2)	5.5 (2.2)
6	27 (18)	5.5 (.22)	8.3 (3.2)	5.5 (2.2)
12	37 (25)	6.5 (.26)	9.8 (3.8)	6.5 (2.6)
18	52 (35)	7.4 (.29)	11.1 (4.4)	7.4 (2.9)
24	61 (41)	8.0 (.31)	12.0 (4.7)	8.0 (3.1)

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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	Bend-Improved Single-Mode
Fiber Code	K	T	T	T	T	E	H
Performance Option Code	30	31	80	90	91	31	31
Optical Fiber Type (µm)	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode	50 Multimode	Single-mode*	Bend-Improved Single-mode†
ISO/IEC 11801 Nomenclature	OM1	OM2	OM3‡	OM3‡	OM3‡	OS2	OS2
Wavelength (nm)	850/1300	850/1300	850/1300	850/1300	850/1300	1310/1383/1550	1310/1383/1550
Maximum Attenuation (dB/km)	3.4/1.0	3.0/1.0	3.0/1.0	3.0/1.0	3.0/1.0	0.65/0.65/0.5	0.65/0.65/0.5
Minimum Over Filled Launch (OFL) Bandwidth (MHz•km)	200/500	700/500	1500/500	1500/500	1500/500	- / - / -	- / - / -
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 / - / -	5000 / - / -
Serial 10 Gigabit Ethernet Distance (m)	33/ -	150/ -	300/ -	550§/ -	600**/ -	10000/ - /40000	10000/ - /40000

* ITU 652.D compliant.

† ITU 652.D compliant, ITU 657.A compliant.

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

§ Assumes 1.0 dB maximum total connector/splice loss.

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

Notes:

- 1) Improved attenuation and bandwidth options available.
- 2) Bend-insensitive single-mode fibers available on request.
- 3) Contact Corning Cable Systems Customer Service Representative for additional information.

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

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

|1-3

Select fiber count.
Standard offerings:
002 004 006 012
018 024
See Note 1.

|4

Select fiber code
(see Transmission
Performance table).

|5 / 12

Defines cable type.
8 / - = FREEDM[®] One Cable

|6

Defines outer jacket.
F = Indoor/outdoor riser

|7

Defines fiber placement.
3 = Standard for FREEDM
One Riser Cable

|8

Defines length markings.
1 = Markings in feet
(standard) for
single-layer design

|9

Defines tensile strength
(see Specifications).

|10-11

Select performance
option code (see
Transmission
Performance table).

|13-14

Defines special
requirements.
29 = No special requirements

Note:

1) Call Customer Service for
special requirements.

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