A LANscape® Solutions Product

features and benefits |

900 µm TBII [®] Buffered Fibers	Easy, consistent stripping
2.9 mm subunits	Easy field terminations
Flame-retardant jacket	Rugged and durable
Temperature- and water-resistant	Superior protection
All-dielectric cable construction	Requires no grounding or bonding

Corning Cable Systems FREEDM® Fan-Out Cables are designed for routing inside and outside buildings into riser spaces, to security, surveillance or monitoring cameras, and within telecommunications rooms and workstations. With no need for transition splices when entering a building, this cable solution provides lowfiber-count connections within building backbone riser and horizontal spaces. The indoor/outdoor temperatureand water-resistant performance provides superior protection for applications, like traffic control, with optical feeds in rugged environments.

Ideal for providing direct optical connections from indoor and outdoor surveillance cameras to security control locations, these cables can also provide a secure link for surveillance or data. The flame-retardant, 900 µm TBII® Buffered Fibers are available in single-mode and multimode and enable easy, consistent stripping while the 2.9 mm subunits enable easy field terminations.

The fibers are surrounded by water-resistant, dielectric strength members and protected by a flexible, flameretardant outer jacket. These cables meet the application requirements of the National Electrical Code® (NEC® Article 770) and are OFNR and FT-4 listed and comply with the ICEA S-104-696 tests. The all-dielectric cable construction requires no grounding or bonding and the small diameter and bend radius allow easy installation in space-constrained areas. FREEDM Fan-Out Cables are also available with approval for TEMPEST applications.









A LANscape® Solutions Product

specifications |

Maximum Tensile Loads	Short-Term: Long-Term:	660 N (150 lbf) 330 N (75 lbf)	
Temperatures	Storage: Installation: Operation:	-40° to +70°C (-40° to +158°F) -10° to +70°C (+14° to +158°F) -40° to +70°C (-40° to +158°F)	
Approvals and Listings	National Electrical Code® (NEC®) OFNR, CSA FT-4		
Design and Test Criteria	ICEA S-104-696		
Flame Resistance	UL1666 (for riser and general building applications)		

Fiber Count	Nominal Cable Weight kg/km (lb/1000 ft)	Nominal Outside Diameter mm (in)	Minimum Bend Loaded cm (in)	Radius Installed cm (in)
2	26 (18)	4.2 x 6.5 (0.25 x 0.3)	11.4 (4.5)	7.6 (3.0)





A LANscape® Solutions Product

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	Т	Т	Т	Т	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	-1-1-
Minimum Effective Modal Bandwidth (EMB) (MHz•km)	220/ –	950/ —	2000/ –	4700/ —	5350/ —	-1-1-
Serial 1 Gigabit Ethernet Distance (m)	300/550	750/600	1000/600	1100/600	1100/600	5000 / – / –
Serial 10 Gigabit Ethernet Distance (m)	33/ —	150/ —	300/ —	550*/ —	600**/ —	10000/ — /40000

^{*} Assumes 1.0 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 a Corning Cable Systems Customer Service Representative for additional information.
- 4) 50 μm multimode fiber macrobend loss \leq 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel.





^{**} 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.

A LANscape® Solutions Product

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

1-3

Defines fiber count. 002

4

Select fiber code (see Transmission Performance table). 5 / 12

Defines cable type.
6 / - = Standard for fan-out cables

6

Defines outer jacket.
F = FREEDM® Riser
Indoor/Outdoor
Cable jacket

7

Defines fiber placement. 3 = Two subunits

8

Defines length markings.

1 = Markings in feet
(standard)

9

Defines tensile strength (see Specifications).
1 = 2.9 mm subunits

10-11

Select performance option code (see Transmission Performance table).

13-14

Defines special requirements.
24 = No special requirements

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. FREEDM, LANscape, Pretium and TBII are registered trademarks of Corning Cable Systems Brands, Inc. Plug & Play is a trademark of Corning Cable Systems Brands, Inc. All other trademarks are the properties of their respective owners. Corning Cable Systems is ISO 9001 certified. © 2008, 2009 Corning Cable Systems. All rights reserved. Published in the USA. LAN-723-EN / October 2009



