FREEDM® Loose Tube Gel-Free Plenum Cables

features and benefits |

Gel-free waterblocking technology	Craft-friendly cable preparation					
Loose tube design	Mechanical ruggedness and environmental durability					
Color-coded fibers	Quick and easy identification					
All-dielectric cable construction	Requires no grounding or bonding					
Meet NEC® requirements	Meets burn test criteria					

A LANscape® **Solutions Product**

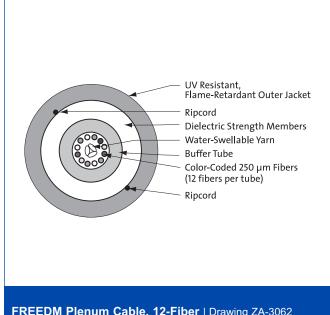
Corning Cable Systems FREEDM® Loose Tube Gel-Free Plenum Cables are flame-retardant, indoor/ outdoor, plenum-rated cables suitable for installation in inter- and intrabuilding backbones in aerial, duct and riser or plenum applications. The loose tube design offers mechanical ruggedness and environmental durability while the all-dielectric cable construction requires no grounding or bonding. The water-swellable yarn eliminates the need for gel-filling compound and allows more efficient and craft-friendly cable preparation.

The cables are available in 62.5 µm, 50 µm (including laser-optimized 50 µm) and single-mode versions and the 250 µm color-coded fibers allow guick and easy identification during installation. The flexible, flameretardant outer jacket is UV resistant and enables direct exposure to sunlight and interlocking armor is available for special applications requiring additional mechanical durability.



(continued)





FREEDM Plenum Cable, 12-Fiber | Drawing ZA-3062

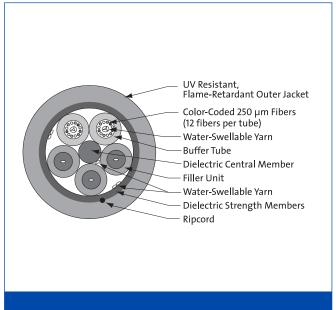






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The plenum rating of this cable eliminates the need to transition splice when entering the building and minimizes routing restrictions once inside the building. Meeting the requirements of the National Electric Code® (NEC®) Article 770, the cables are also OFNP and FT-6 listed.

FREEDM Plenum Cable, 24-Fiber | Drawing ZA-3063

specifications |

Temperatures -40° to +70°C (-40° to +158°F) Storage:

> Installation: 0° to +60°C (+32° to +140°F) -40° to +70°C (-40° to +158°F) Operation:

Approvals and Listings National Electrical Code® (NEC®) OFNP, CSA FT-6

Design and Test Criteria ANSI/ICEA S-104-696; NFPA 262 (for plenum, riser and general building applications)

Coming Cable Systems recommends storing indoor/outdoor cable in a proper temperature environment prior to installation to allow the cable temperature to meet installation temperature range specifications for best installation results.

Fiber Count	Nominal Cable Weight kg/km (lb/1000 ft)	Nominal Outside Diameter mm (in)	Maximum Tens Short-Term N (lbf)	sile Load Long-Term N (lbf)	Minimum Ben Loaded cm (in)	d Radius Installed cm (in)
2 - 12	61 (41)	7.4 (0.29)	1350 (300)	400 (90)	11.1 (4.4)	7.4 (2.9)
24 - 60	128 (86)	11.1 (0.44)	2700 (600)	810 (180)	16.7 (6.6)	11.1 (4.4)
72	144 (97)	11.8 (0.46)	2700 (600)	810 (180)	17.7 (7.0)	11.8 (4.6)







PRETERMINATED SYSTEMS | CABLES | CONNECTORS |

FREEDM® Loose Tube Gel-Free Plenum Cables

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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	К	С	S	S	S	E	Н	
Performance Option Code	30	31	80	90	91	01	01	
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	0.4/0.4/0.3	0.4/0.4/0.3	
Minimum Over Filled Launch (OFL) Bandwidth (MHz•km)	200/500	700/500	1500/500	1500/500	1500/500	-1-1-	-1-1-	
Minimum Effective Modal Bandwidth (EMB) (MHz•km)	220/ –	950/ —	2000/ –	4700/ –	5350/ –	-1-1-	-1-1-	
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	010000/ — /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 Coming Cable Systems Customer Service Representative for additional information.







^{**} Assumes 0.7 dB maximum total connector/splice loss.

^{***} Meets 0.75 ns optical skew when used in all Coming Cable Systems Plug & Play™ Systems solutions.

^{****} ITU 652.D compliant.

^{*****} ITU 652.D compliant, ITU 657.A compliant.

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

					Р	- T	4	1			D	2	0
1	2	3	4	5	 6	7	8	9	10	11	12	13	14

1-3

Select fiber count. Standard offerings: 006 024 048 072 012 036 060

4

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

Select cable type.
S / D = Fiber count ≤ 12
W / D = Fiber counts 24 - 72

6

Defines outer jacket.
P = Plenum

7

Defines fiber placement. T = Standard 8

Defines length markings.
4 = Markings in feet
(standard)

9

Defines tensile strength (see Specifications).

1 = Standard

10-11

Select performance option code (see Transmission Performance table).

13-14

Defines special requirements. 20 = 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

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