FREEDM® One Interlocking **Armored Plenum Cables**

features and benefits |

Waterblocking technology	OSP applications
Flexible, interlocking armor design	Seven times crush protection compared to unarmored cables
UV-resistant, flame-retardant jacket	Durable and easy to strip

A LANscape® **Solutions Product**

Corning Cable Systems FREEDM® One Interlocking Armored Plenum Cables are flame-retardant, indoor/ outdoor, plenum cables designed for interbuilding and intrabuilding backbone in plenum, riser or generalpurpose applications with no need for a transition splice when entering the building. Encased in a spirally wrapped, aluminum interlocking armor for ruggedness and superior crush resistance, these cables are ideal for industrial and heavy traffic areas and installations requiring extra protection for optical cables.

Available in a compact design with fiber counts of 6-, 12-, 18- and 24-fiber cables. These cables are protected against water penetration by innovative waterblocking technology, making it ideal for OSP applications. Available in 50 µm, 62.5 µm, single-mode and hybrid versions, the cable design meets the application requirements of NEC® (National Electrical Code®) Article 770 and is OFCP and FT-6 listed.



(continued)







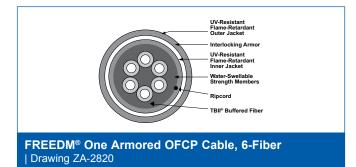


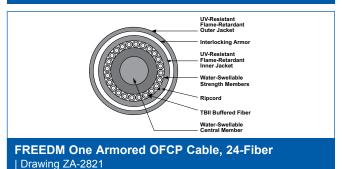


FREEDM® One Interlocking Armored Plenum Cables

The flexible, interlocking armor design offers over seven times the crush protection compared to unarmored cables (as characterized to ICEA-696) and allows easy one-step installation, thereby reducing the overall installation costs. The UV-resistant, flame-retardant jacket is rugged, durable and easy to strip. This cable is available with Gigabit Ethernet and 10 Gigabit Ethernet performance.

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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®) OFCP, CSA FT-6, ICEA S-104-696

Flame Resistance NFPA 262 (for plenum, riser and general building applications)

Corning 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)	Minimum Ber Loaded cm (in)	nd Radius Installed cm (in)
2	114 (77)	11.5 (.45)	17.3 (6.8)	11.5 (4.5)
4	117 (79)	11.5 (.45)	17.3 (6.8)	11.5 (4.5)
6	119 (80)	11.5 (.45)	17.3 (6.8)	11.5 (4.5)
12	140 (94)	12.5 (.49)	18.8 (7.4)	12.5 (4.9)
18	165 (111)	13.3 (.52)	20.0 (7.9)	13.3 (5.2)
24	188 (126)	14.6 (.57)	21.9 (8.6)	14.6 (5.7)





FREEDM® One Interlocking **Armored 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	K	Т	Т	Т	Т	E	Н
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	-/-/-	-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	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.

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.





[†] 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.

FREEDM® One Interlocking Armored Plenum Cables

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

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	 		-					 11 12 13	

1-3

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

4

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

Defines cable type.
8 / - = Standard for
FREEDM® One Cable

6

Defines outer jacket.
P = Indoor/outdoor plenum

7

Defines fiber placement.
3 = Standard for FREEDM
One Plenum Cables

8

Defines length markings. 1 = Markings in feet

= 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.

A3 = Aluminum interlocking armor with plenumrated jacket

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