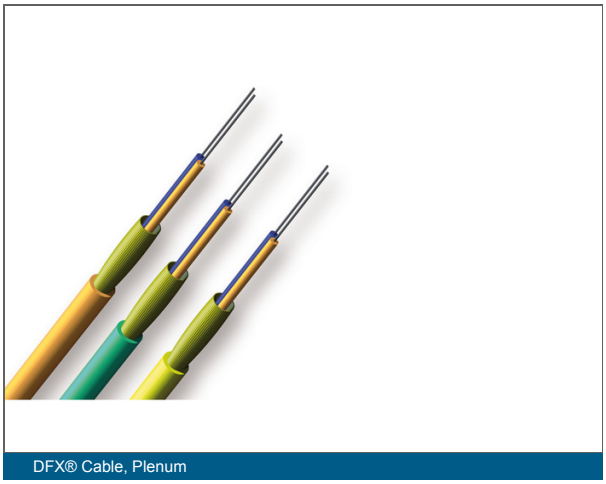
DFX® Cable, Plenum

Corning DFX® cables have two 900 µm tight-buffered fibers surrounded by aramid yarn strength members in a flexible flame-retardant jacket. These cables meet the application requirements of the National Electrical Code® (NEC®) Article 770 and are OFNP and FT-6 listed. DFX cables are ideal for interconnect applications.

Features and Benefits

Two 900 µm tight-buffered fibers
Small 2.9 mm package

Flexible 2-fiber cable
High-density interconnect applications



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Standards	
RoHS	Free of hazardous substances according to RoHS 2011/65/EU

Specifications

General Specifications	
Environment	Indoor
Product Type	Interconnect
Cable Type	Tight-Buffered
Flame Rating	Plenum (OFNP)

Temperature Range	
Temperature Range, Storage	-40 °C - 70 °C (-40 °F - 158 °F)
Temperature Range, Installation	0 °C - 60 °C (32 °F - 140 °F)
Temperature Range, Operation	0 °C - 70 °C (32 °F - 158 °F)

Design Characteristics Cable
Fiber Count
2

Mechanical Characteristics Cable

Fiber Count	Product Type	Min. Bend Radius Installation	Min. Bend Radius Operation	Max. Tensile Strength, Short-Term	Cable Weight
2	Interconnect	50 mm (1.97 in)	30 mm (1.18 in)	100 N (22.48 lbf)	867 kg/km (582.6 lb/1000 ft)

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Transmission Performance

Multimode					
Fiber Category	OM1	OM2	OM3	OM4	OM4 Extended Distance
Fiber Code	K	T	T	T	T
Performance Option Code	30	31	80	90	91
Fiber Core Diameter	62.5 µm	50 µm	50 µm	50 µm	50 µm
Wavelengths	850 nm / 1300 nm	850 nm / 1300 nm	850 nm / 1300 nm	850 nm / 1300 nm	850 nm / 1300 nm
Maximum Attenuation	3.4 dB/km / 1.0 dB/ km	3.0 dB/km / 1.0 dB/ km	3.0 dB/km / 1.0 dB/ km	3.0 dB/km / 1.0 dB/ km	3.0 dB/ km / 1.0 dB/km
Serial 1 Gigabit Ethernet	300 m / 550 m	750 m / 600 m	1000 m / 600 m	1000 m / 600 m	1100 m / 600 m
Serial 10 Gigabit Ethernet	33 m / -	150 m / -	300 m / -	550 m / -	600 m / -
Min. Overfilled Launch (OFL) Bandwidth	200 MHz*km / 500 MHz*km	700 MHz*km / 500 MHz*km	1500 MHz*km / 500 MHz*km	3500 MHz*km / 500 MHz*km	3500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	220 MHz*km / -	950 MHz*km / -	2000 MHz*km / -	4700 MHz*km / -	5350 MHz*km / -

Transmission Performance

Single-mode		
Fiber Name	ClearCurve® ZBL	Single-mode (OS2) - Bend-Improved Single-mode (OS2)
Performance Option Code	31	31
Fiber Category	OS2	OS2
Wavelengths	1310 nm / 1383 nm / 1550 nm	1310 nm / 1383 nm / 1550 nm
Fiber Code	U	E - Z
Maximum Attenuation	0.4 dB/km / 0.4 dB/km / 0.3 dB/km	0.4 dB/km / 0.4 dB/km / 0.4 dB/km

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CORNING

0 0 2 □ 7 8-3 1 3 □ □ - 2 9

1 2 3 4 5 6 7 8 9 10

1 Defines fiber count.
002

2 Select fiber code.
K = 62.5 µm multimode (OM1)
T = 50 µm multimode (OM2/OM3/OM4)
E = Single-mode (OS2) SMF-28e®
H = Single-mode (OS2) ClearCurve® XB fiber
J = Single-mode (OS2) ClearCurve® LBL fiber
U = Single-mode (OS2) ClearCurve® ZBL fiber

3 Defines cable type.
7 = DFX® cable construction

4 Defines outer jacket.
8 = Plenum

5 Defines fiber placement.
3 = Standard

6 Defines length markings.
1 = Markings in feet (standard)

7 Defines diameter options.
3 = 2.9 mm OD

8 Select performance option code.
30 = 62.5 µm multimode (OM1)
31 = 50 µm multimode (OM2)
80 = 50 µm multimode (OM3)
90 = 50 µm multimode (OM4)
91 = 50 µm multimode (OM4+)
31 = Single-mode (OS2)
(Max. attenuation 0.65 / 0.65 / 0.5 dB/km)
31 = Single-mode ClearCurve® ZBL
(Max. attenuation 0.4/ 0.4 / 0.3 dB/km)

9 Defines cable type.
- = DFX® cable construction

10 Defines special manufacturing code.
29 = No special requirements

RoHS COMPLIANT

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