

Zipcord Plenum Cables, 2-Fibers

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Features and Benefits

Meets NEC® requirements

Meets burn test criteria

All-dielectric strength member

Mechanical durability

Standards

Approval and Listings

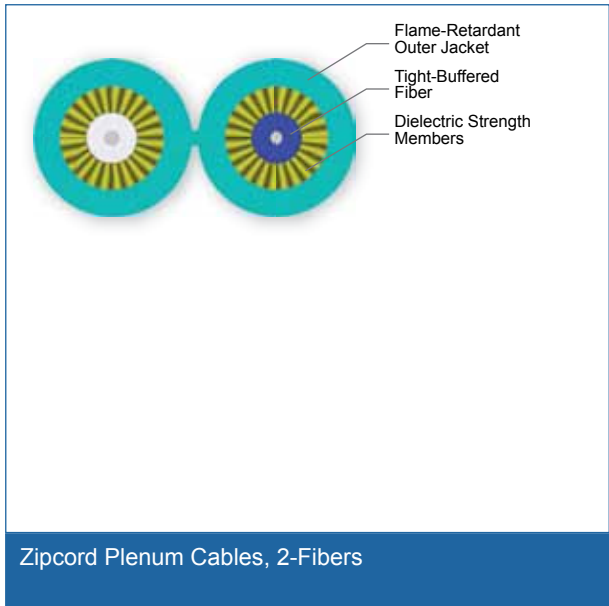
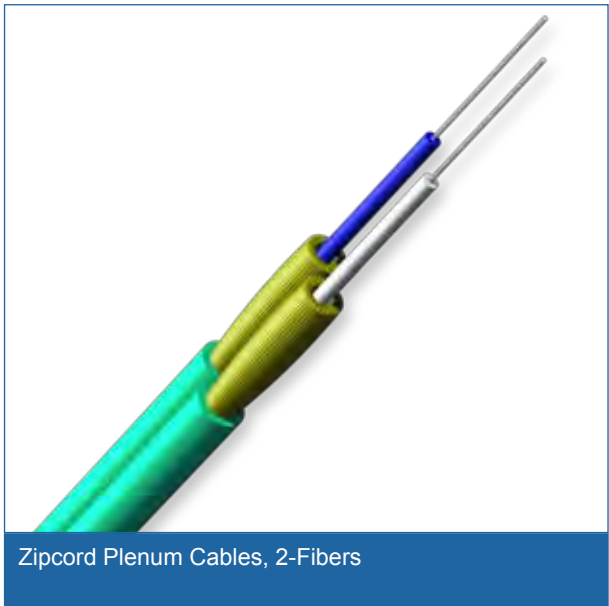
National Electrical Code®
(NEC®) OFNP, CSA FT-6,
ICEA S-83-596

Flame Resistance

NFPA 262 (for plenum, riser
and general building appli-
cations)

Corning Cable Systems Zipcord Cables are designed for interconnect applications. Two 900 µm TBII® Buffered Fibers are surrounded by aramid yarn strength members and a flame-retardant jacket. This cable design offers mechanical durability and flame resistance that meet the requirements of the National Electrical Code® (NEC) Article 770.

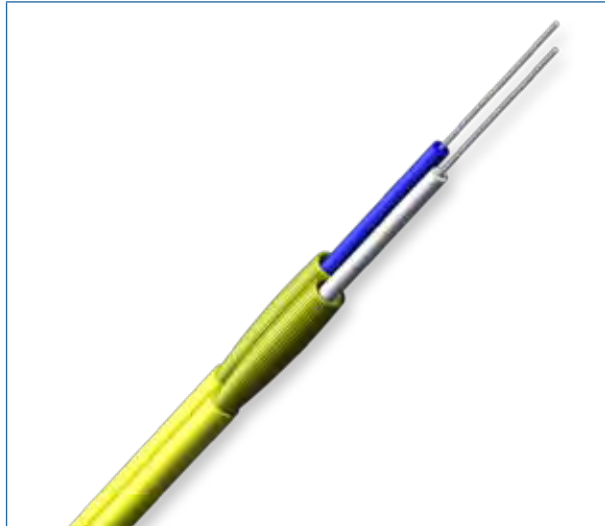
This cable is available in 12 different jacket colors - blue, orange, green, brown, slate, white, red, black, yellow, purple, rose and aqua. The colored jacket allows for easy visual identification of the cables. The standard jacket color will be determined by the dominant fiber type in the cable and will use the standard part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other color options.



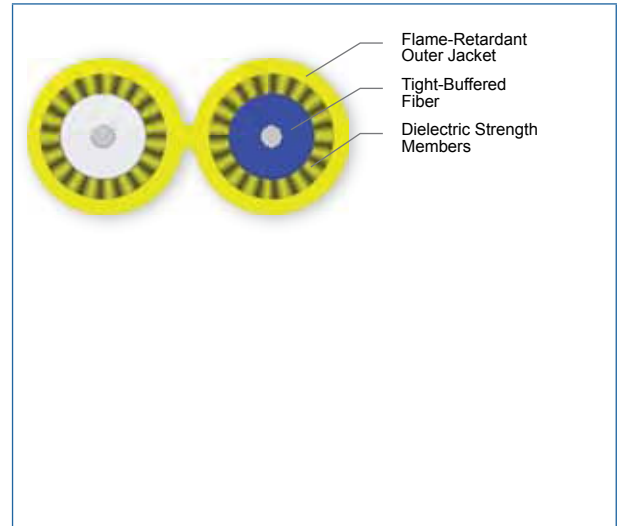
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Specifications

Temperature Range

Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Operation	0 °C to 70 °C (32 °F to 158 °F)

* Corning Cable Systems recommends storing cable in a proper temperature environment prior to installation to allow the cable temperature to meet installation temperature range specifications for best installation results.

Mechanical Characteristics Cable

Max. Tensile Strengths, Short-Term	220 N (50 lbf)
Max. Tensile Strengths, Long-Term	66 N (15 lbf)

Fiber Count	Product Type	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight
Multimode					
2	Interconnect	1.6 mm x 3.3 mm (0.06 in x 0.13 in)	50 mm (2 in)	8 mm (0.3 in)	5 kg/km (3.5 lb/1000 ft)
Single-Mode					
2	Interconnect	1.6 mm x 3.3 mm (0.06 in x 0.13 in)	50 mm (2 in)	25 mm (1 in)	5 kg/km (3.5 lb/1000 ft)

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Fiber Count	Product Type	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight
Multimode					
2	Interconnect	2 mm x 4 mm (0.08 in x 0.16 in)	50 mm (2 in)	10 mm (0.4 in)	7.4 kg/km (5.2 lb/1000 ft)
Single-Mode					
2	Interconnect	2 mm x 4 mm (0.08 in x 0.16 in)	50 mm (2 in)	25 mm (1 in)	7.4 kg/km (5.2 lb/1000 ft)
Multimode					
2	Interconnect	2.8 mm x 5.6 mm (0.11 in x 0.22 in)	50 mm (2 in)	14 mm (0.55 in)	14.6 kg/km (10 lb/1000 ft)
Single-Mode					
2	Interconnect	2.8 mm x 5.6 mm (0.11 in x 0.22 in)	50 mm (2 in)	25 mm (1 in)	14.6 kg/km (10 lb/1000 ft)

* Installed single-mode minimum bend radius of 20 mm is acceptable with a length no longer than 1 m subjected to the bend.

Chemical Characteristics

RoHS

Free of hazardous substances according to RoHS 2002/95/EG

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Transmission Performance

Fiber Type	Multimode	Multimode	Multimode	Multimode	Multimode	Single-mode
Fiber Core Diameter (μm)	62.5	50	50	50	50	8.2
Fiber Category	OM1	OM2	OM3	OM4	OM4 Extended Distance	OS2
Fiber Code	K	T	T	T	T	E
Performance Option Code	30	31	80	90	91	31
Wavelengths (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	2.8 / 1	2.8 / 1	2.8 / 1	0.65 / 0.65 / 0.5
Min. Overfilled Launch (OFL) Bandwidth (MHz*km)	200 / 500	700 / 500	1500 / 500	3500 / 500	3500 / 500	
Minimum Effective Modal Bandwidth (EMB) (MHz*km)	220 / -	950 / -	2000 / -	4700 / -	5350 / -	
Serial 1 Gigabit Ethernet (m)	300 / 550	750 / 600	1000 / 600	1100 / 600	1100 / 600	5000 / - / -
Serial 10 Gigabit Ethernet (m)	33 / -	150 / -	300 / -	550 / -	600 / -	10000 / - / 40000
Induced Attenuation @ 7.5 mm Radius (dB)			< 30 up to 80			

* Assumes 1.0 dB maximum total connector/splice loss.

* Assumes 0.7 dB maximum total connector/splice loss.

* Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions.

* ITU-T G.652 D compliant.

Notes: 1) Improved attenuation and bandwidth options available.

2) Bend-insensitive single-mode fibers available on request.

3) Contact a Corning Cable Systems Customer Care Representative for additional information.

4) 50 μm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel.

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Ordering Information | Contact Customer Care at 1-800-743-2671 for other options.

0	0	2		5	8	-	3	1				-	2	4
1	2	3	4	5	6	7	8	9						

1 Defines fiber count.
002

2 Select fiber code.
K = 62.5 μ m multimode, OM1
T = 50 μ m multimode, OM2, OM3, OM4, OM4+
E = Single-mode, OS2 SMF-28e®

3 Defines cable type.
5 = Zipcord

4 Defines outer jacket.
8 = Plenum

5 Defines fiber placement.
31 = Zipcord cable, 2-fiber, feet markings

6 Select cable outside diameter.
1 = 2.8 mm
3 = 2.0 mm
4 = 1.6 mm

7 Select performance option code.
30 = 62.5 μ m multimode, OM1
31 = 50 μ m multimode, OM2
80 = 50 μ m multimode, OM3
90 = 50 μ m multimode, OM4
91 = 50 μ m multimode, OM4+
31 = Single-mode, OS2
(Max. attenuation .65 / .65 dB/km)

8 Defines cable type.
- = Zipcord

9 Defines special manufacturing code.
24 = Standard for zipcord plenum cables, 2-fibers

This cable is available in 12 different jacket colors - blue, orange, green, brown, slate, white, red, black, yellow, purple, rose and aqua. The colored jacket allows for easy visual identification of the cables while still providing all of the required environmental protection of an indoor/outdoor cable jacket. Black is the standard jacket color using the standard part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other color options.



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