

Ribbon Plenum Interconnect Cables

CORNING

Features and Benefits

Meets NEC requirements

Meets burn test criteria

All-dielectric strength member

Mechanical durability

Corning ribbon plenum interconnect cables are designed for multifiber connector interconnect applications from equipment to patch panel or as a patch cord. Available with two, four, eight or 12 fibers, these cables make compact, rugged patch cables and offer a perfect complement to multifiber connector strategies. Dielectric strength members offer mechanical durability within a flexible, flame-listed retardant jacket. The cables meet application requirements of the National Electrical Code (NEC) Article 770 and are also OFNP and FT-6.

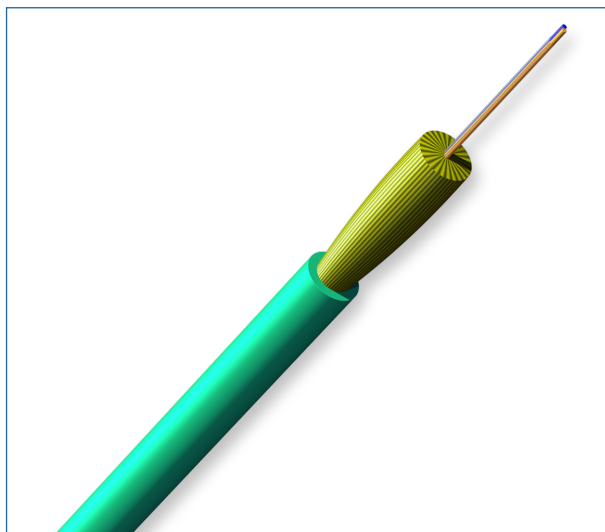
Standards

Approval and Listings

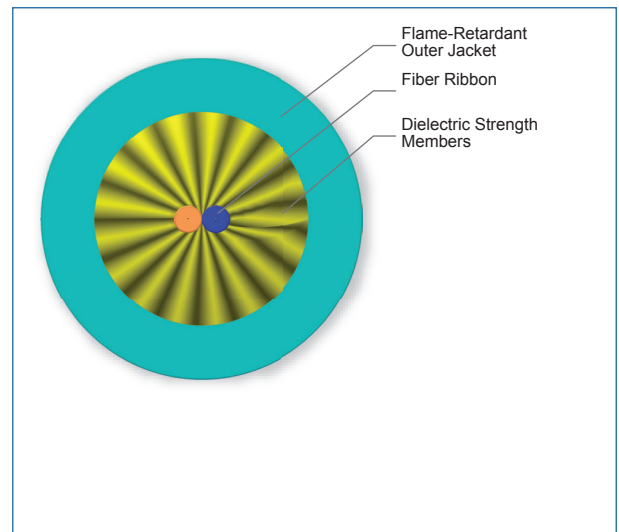
National Electrical Code®
(NEC®) OFNP, CSA FT-6,
ICEA S-83-596

Flame Resistance

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



Ribbon Plenum Interconnect Cables, 2 Fibers
| Photo PIM1255

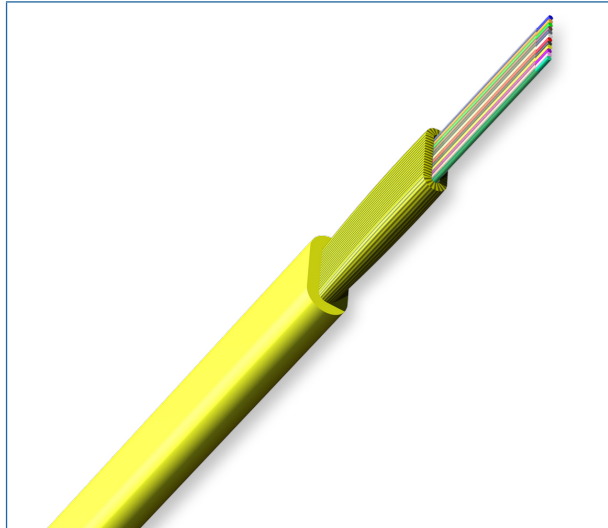


Ribbon Plenum Interconnect Cables, 2 Fibers
| Photo PIM2153

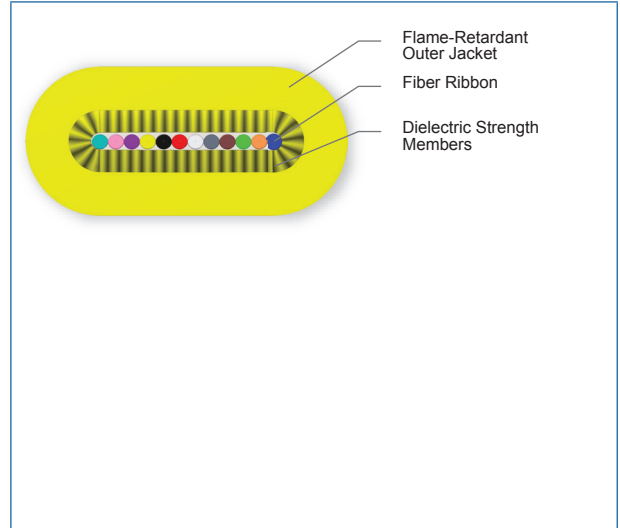
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Ribbon Plenum Interconnect Cables, 12 Fibers
| Photo PIM1262



Ribbon Plenum Interconnect Cables, 12 Fibers
| Photo PIMtbd

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)

* Note: Corning 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.

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

Mechanical Characteristics Cable

Fiber Count	Product Type	Nominal Outer Diameter	Weight	Min. Bend Radius Installation	Min. Bend Radius Operation
2 - 4	Interconnect	2.9 mm (0.11 in)	7.9 kg/km (5.3 lb/1000 ft)	50 mm (2.0 in)	25 mm (1.0 in)
8	Interconnect	3.6 mm x 2.2 mm (0.14 in x 0.09 in)	7.7 kg/km (5.1 lb/1000 ft)	50 mm (2.0 in)	25 mm (1.0 in)
12	Interconnect	4.2 mm x 2.2 mm (0.16 in x 0.09 in)	10.6 kg/km (7.1 lb/1000 ft)	50 mm (2.0 in)	25 mm (1.0 in)

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Chemical Characteristics

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

Multimode					
Fiber Core Diameter (μm)	62.5	50	50	50	50
Fiber Category	OM1	OM2	OM3	OM4	OM4 Extended Distance
Fiber Code	K	T	T	T	T
Performance Option Code	30	31	80	90	91
Wavelengths (nm)	850/1300	850/1300	850/1300	850/1300	850/1300
Maximum Attenuation (dB/km)	3.4/1.0	3.0/1.0	3.0/1.0	3.0/1.0	3.0/1.0
Serial 1 Gigabit Ethernet (m)	300/550	750/500	1000/600	1100/600	1100/600
Serial 10 Gigabit Ethernet (m)	33/-	150/-	300/-	550/-	600/-
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/-

* Single-mode (OS2) fiber is ITU-T G.652.D compliant.

* 50 μm multimode fiber (OM3/OM4) meets 0.75 ns optical skew when used in all Corning Plug and Play™/Pretium EDGE® systems solutions.

* 50 μm multimode fiber (OM4) T90 10 Gigabit Ethernet distance assumes 1.0 dB maximum total connector/splice loss.

* 50 μm multimode fiber (OM4) T91 10 Gigabit Ethernet Distance assumes 0.7 dB maximum total connector/splice loss.

Notes: 1) Improved attenuation and bandwidth options available.

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

3) 50 μm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel.

4) Contact a Corning Customer Care Representative for additional information.

Single-mode	
Fiber Name	SMF-28e+® fiber
Fiber Category	G.652.D
Fiber Code	E
Performance Option Code	01
Wavelengths (nm)	1310/1383/1550
Maximum Attenuation (dB/km)	0.4/0.4/0.3
Typical Attenuation* (dB/km)	0.33/0.33/0.19

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Ordering Information | *Note: Contact Customer Care at 1-800-743-2675 for other options.*

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

1 Select fiber count.
Standard offerings:
002 004 008 012

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

3 Defines cable type.
J = Ribbon interconnect

4 Defines outer jacket.
8 = Plenum

5 Select fiber count.
(must match fiber count in option 1)
41 = 4 fibers
(when 002 or 004 is selected)
81 = 8 fibers
(when 008 is selected)
T3 = 12 fibers
(when 012 is selected)

6 Defines tensile rating.
1 = Standard ribbon
interconnect

7 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 .65 / .65 / 0.5 dB/km)

8 Defines cable type.
- = Ribbon Cable

9 Defines special
manufacturing code.
0F = Ribbon Interconnect



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