Ribbon Riser Interconnect Cables

Features and Benefits

Meet NEC® requirements
Meets burn test criteria

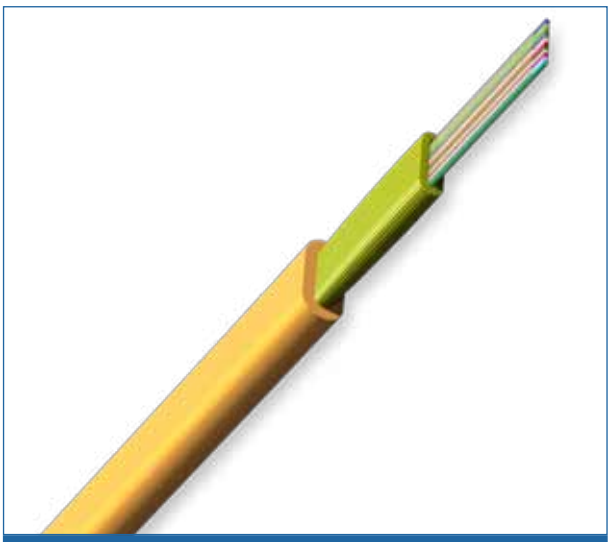
All-dielectric strength member
Mechanical durability

TEMPEST applications
Interference prevention

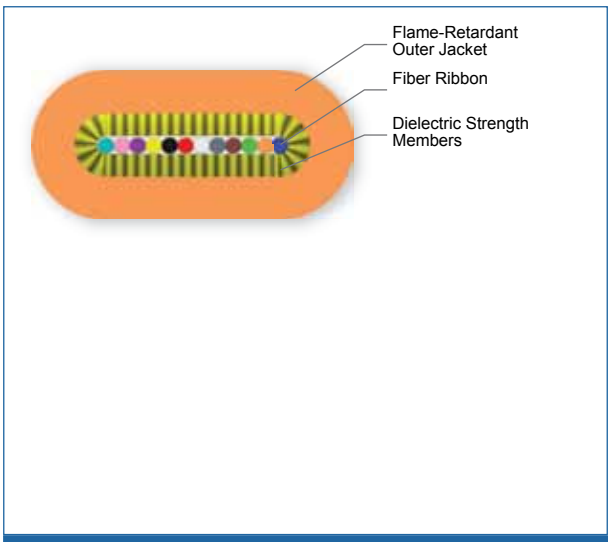
Corning Cable Systems Ribbon Riser Interconnect Cables are designed for multi-fiber connector interconnect applications from equipment to patch panel or as a patch cord. Available with two, four, eight or 12 fibers, these cables make compact, rugged patch cables and offer a perfect complement to multi-fiber connector strategies. Dielectric strength members provide mechanical durability within a flexible, flameretardant jacket. There is also availability with approval for TEMPEST applications. The cables meet application requirements of the National Electric Code® (NEC®) Article 770, and are also OFNR and FT-4 listed.

Standards

Approval and Listings	National Electrical Code® (NEC®) OFNR, CSA FT-4, ICEA S-83-596
Flame Resistance	UL-1666 (for riser and general building applications)



Ribbon Riser Interconnect Cables, 12-Fibers



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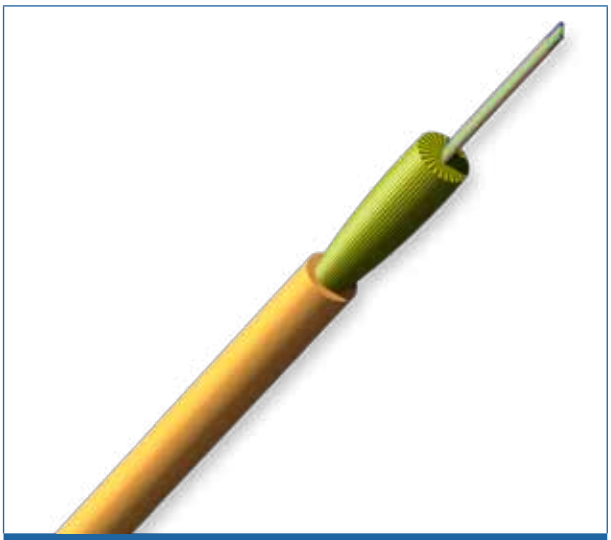
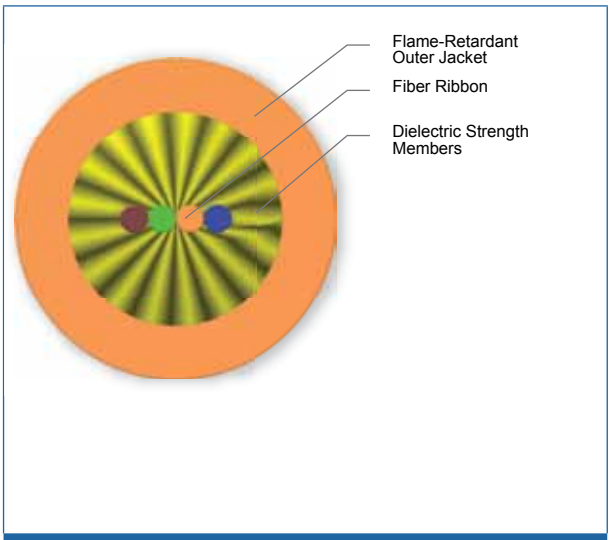


Ribbon Riser Interconnect Cables, 4-Fibers



Ribbon Riser Interconnect Cables, 4-Fibers

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)

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

Fiber Count	Weight	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation
2 - 4	6.96 kg/km (4.7 lb/1000 ft)	2.9 mm (0.11 in)	50 mm (2 in)	25 mm (1 in)
8	9.3 kg/km (6.3 lb/1000 ft)	3.6 mm x 2.2 mm (0.14 in x 0.09 in)	50 mm (2 in)	25 mm (1 in)
12	9.9 kg/km (6.6 lb/1000 ft)	4.2 mm x 2.2 mm (0.16 in x 0.09 in)	50 mm (2 in)	25 mm (1 in)

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

Transmission Performance

Fiber Type Fiber Core Diameter (µm)	Multimode 62.5	Multimode 50	Multimode 50	Multimode 50	Multimode 50	Single-mode 9
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	01
Wavelengths (nm)	850 / 1300	850 / 1300	850 / 1300	850 / 1300	850 / 1300	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 / .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

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

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 Cable Systems Customer Care Representative for additional information.*

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

1	1	1	2	J	1	-	5	5	6	7	7	8	9	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.
1 = Riser

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 standard diameter.
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 0.65/0.65/0.5 dB/km)

8 Defines cable type.
- = Ribbon interconnect

9 Defines special manufacturing code.
0F = Ribbon interconnect

RoHS COMPLIANT

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