MIC® Riser Cables
2-24 Fiber

A LANscape® Pretium™ Solutions Product

Corning
Cable Systems

Applications

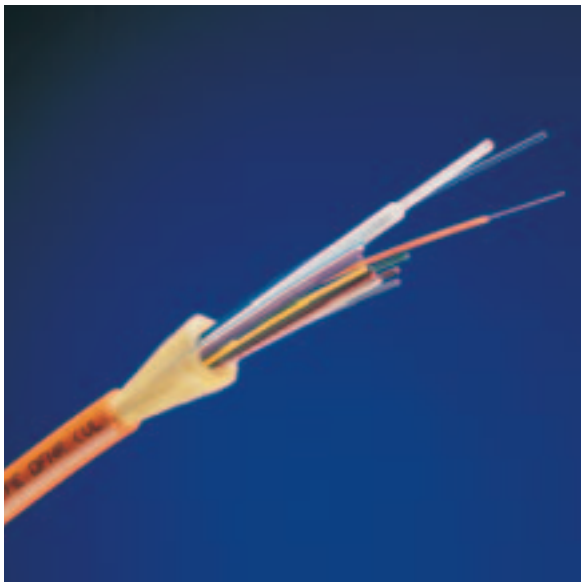
- Intrabuilding backbone and horizontal installations in riser and general purpose environments

Description

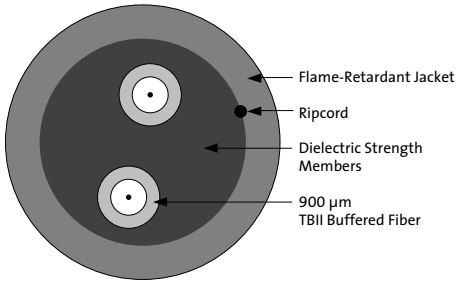
MIC® Cables are multifiber cables utilizing 900 µm tight-buffered fibers surrounded by dielectric strength members and a flame-retardant outer jacket. These cables meet the application requirements of the National Electrical Code® (NEC® Article 770) and are OFNR and FT-4 listed. These cables are ideal for intrabuilding cabling including riser shafts, telecommunications rooms and workstations.

Features / Benefits

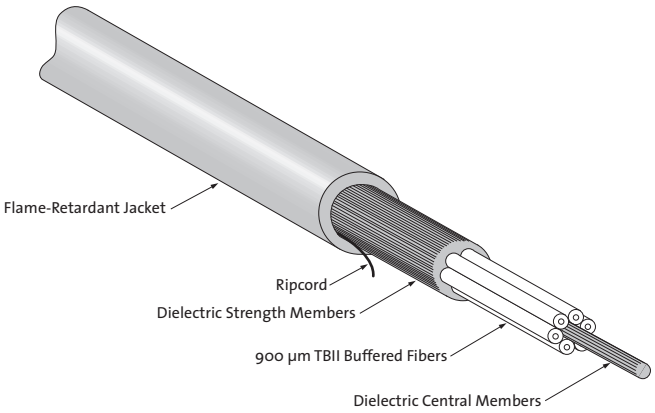
- Utilizes 900 µm TBII® Buffered Fibers enabling easy, consistent stripping
- Available in 62.5 µm, 50 µm, single-mode and hybrid versions
- All-dielectric construction requires no grounding and bonding
- Available with interlocking armor
- Availability with approval for TEMPEST applications
- Meets application requirements of the National Electrical Code (NEC Article 770)
- Listed OFNR and FT-4
- Available with MSHA (Mine Safety & Health Administration) approval
- Available with Gigabit Ethernet and 10 Gigabit Ethernet performance



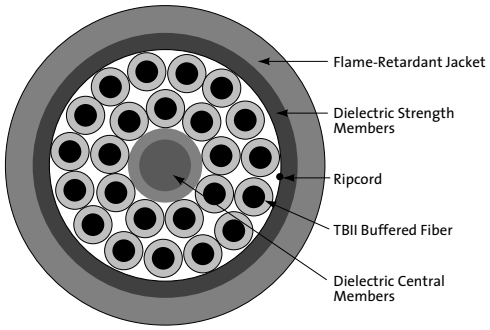
MIC Riser Cable | Photo CLT16



2-Fiber MIC Cable | Drawing CPC-220/1/31



6-Fiber MIC Riser Cable | Drawing CPC-220/1/33



24-Fiber MIC Cable | Drawing CPC-220/1/38

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Product Specifications

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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: -20° to +70°C (-4° to +158°F)
Approvals and Listings	National Electrical Code® (NEC®) OFNR, CSA FT-4, ICEA S-83-596
Flame Resistance	UL-1666 (for 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 Outer Diameter mm (in)	Nominal Weight kg/km (lb/1000 ft)	Central Member	Maximum Tensile Loads Short-Term N (lbf)	Maximum Tensile Loads Long-Term N (lbf)	Minimum Bend Radius Loaded cm (in)	Minimum Bend Radius Installed cm (in)
Single Layer							
2	4.7 (0.19)	18 (12)	Y	660 (148)	198 (45)	7.1 (2.8)	4.7 (1.9)
4	4.8 (0.19)	21 (14)	Y	660 (148)	198 (45)	7.2 (2.8)	4.8 (1.9)
6	5.5 (0.22)	26 (17)	Y	660 (148)	198 (45)	8.3 (3.3)	5.5 (2.2)
8	6.0 (0.24)	32 (21)	JG	660 (148)	198 (45)	8.9 (3.5)	6.0 (2.3)
Dual Layer							
12 (9/3)	6.3 (0.25)	34 (23)	Y	660 (148)	198 (45)	9.5 (3.7)	6.3 (2.5)
18 (12/6)	7.4 (0.29)	49 (33)	Y	1320 (297)	396 (89)	11.0 (4.3)	7.4 (2.9)
24 (15/9)	8.0 (0.31)	58 (39)	Y	1320 (297)	396 (89)	12.0 (4.6)	8.0 (3.1)

Central Member Types: Y = Yarn, JG = Jacketed GRP
Fiber arrangement in dual-layer designs is shown in parentheses. Example: (9/3) = 9 outside fibers around 3 inner fibers

Transmission Performance

Fiber Code	K	C	S	S	E
Performance Option Code	**30**	**31**	**80**	**90**	**31**
Fiber Type	62.5/125 µm (850/1300 nm)	50/125 µm (850/1300 nm)	50/125 µm (850/1300 nm)	50/125 µm (850/1300 nm)	Single-mode (1310/1383/1550 nm)
Maximum Attenuation (dB/km)	3.5/1.0	3.5/1.5	3.0/1.5	3.0/1.5	1.0/1.0/0.75
Minimum LED Bandwidth (MHz•km)	200/500	500/500	1500/500	1500/500	– / – / –
Minimum Effective Modal Bandwidth (MHz•km)	*220/ –	*510/ –	**2000/ –	***4700/ –	– / – / –
Serial Gigabit Ethernet Distance (m)	300/550	600/600	1000/600	1000/600	5000/ – / –
Serial 10 Gigabit Ethernet Distance (m)	33/ –	82/ –	300/ –	****550/ –	10000/40000

** As predicted by RML BW, per TIA/EIA 455-204 and IEC 60793-1-41, for intermediate performance laser-based systems (up to 1 Gb/s).*
*** As predicted by minEMBc, per TIA/EIA 455-220 and IEC 60793-1-49, for high performance laser-based systems (up to 10 Gb/s).*
**** As predicted by minEMBc, per TIA/EIA 455-220 and IEC 60793-1-49, for high performance laser-based systems (up to 10 Gb/s).*
***** The 550 m distance is equivalent to a 4700 EMB system with standards-compliant transceiver and fiber characteristics, 3.0 dB/km cable attenuation and 1.0 dB total connector loss.*

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Ordering Information

Contact Customer Service for other options.

☐ ☐ ☐ ☐ 8 ☐ - 3 ☐ 1 ☐ ☐ - 2 4

1 2 3 4 5 6 7 8 9 10 11 12 13 14

1 - 3 Select fiber count

Standard Offerings:
002 006 012 024
004 008 018

4 Select fiber code (see Transmission Performance Table).

5 / 12 Defines cable type.

8/- = Standard for MIC® Cable

6 Select outer jacket.

1 = Standard for riser
M = MSHA approved

7 Defines fiber placement.

3 = Standard

8 Select length markings.

1 = Markings in feet (fiber counts ≤ 10)
3 = Markings in feet (fiber counts > 10)

9 Defines tensile strength (see Specifications).

10 - 11 Select performance option code. (see Transmission Performance Table).

13 - 14 Defines special requirements.

24 = Standard for riser MIC Cable

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