MIC® Riser Cables
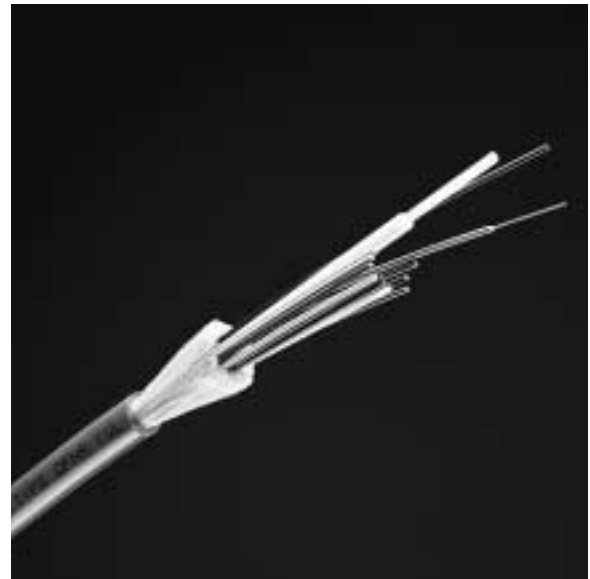# 2-24 Fiber

A LANscape® Solutions Product

Applications
• Intrabuilding backbone and horizontal installations in riser and general purpose environments
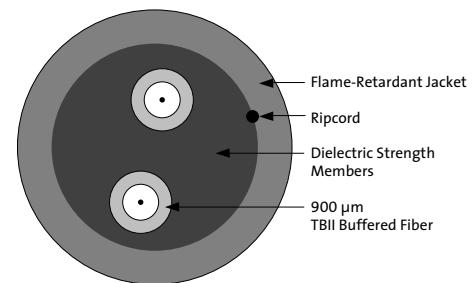
Description
MIC® Cables are multifiber cables utilizing 900 µm tight-buffered fibers surrounded by dielectric strength members and a flame-retardant outer jacket. These cables meet the application requirements of the National Electrical Code® (NEC® Article 770) and are OFNR and FT-4 listed. These cables are ideal for intrabuilding cabling including riser shafts, telecommunications rooms and workstations.
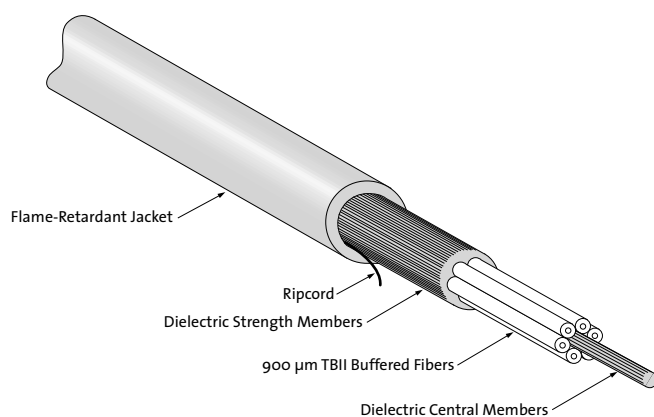
Features / Benefits
• Utilizes 900 µm TBII® Buffered Fibers enabling easy, consistent stripping

• 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

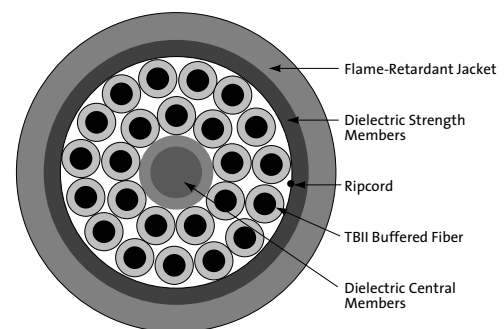• Available with Gigabit Ethernet and 10 Gigabit Ethernet performance

MIC Riser Cable | Photo CLT16

Flame-Retardant Jacket
Ripcord
Dielectric Strength Members
900 µm TBII Buffered Fiber

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

Flame-Retardant Jacket
Dielectric Strength Members
900 µm TBII Buffered Fibers
Ripcord
Dielectric Central Members

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

Flame-Retardant Jacket
Dielectric Strength Members
Ripcord
TBII Buffered Fiber
Dielectric Central Members

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

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MIC® Riser Cables
2-24 Fiber
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Specifications

Storage Temperature	-40° to +70°C (-40° to +158°F)
Installation Temperature	-10° to +60°C (+14° to +140°F)
Operating Temperature	-20° to +70°C (-4° to +158°F)
Approvals, Listings and Standards	NEC® OFNR, CSA FT-4, ICEA S-83-596
Flame Resistance	UL-1666 (for riser and general building applications)

Fiber Count	Nominal Outer Diameter mm (in)	Nominal Weight kg/km (lb/1000 ft)	Central Member	Maximum Tensile Loads Short-Term N (lbf)	Long-Term N (lbf)	Minimum Bend Radius Loaded cm (in)	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	5.3 (0.21)	23 (16)	Y	660 (148)	198 (45)	8.0 (3.1)	5.3 (2.1)
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)	32 (22)	Y	660 (148)	198 (45)	9.5 (3.7)	6.3 (2.5)
18 (12/6)	7.4 (0.29)	46 (31)	Y	1320 (297)	396 (89)	11.0 (4.3)	7.4 (2.9)
24 (15/9)	8.0 (0.31)	55 (37)	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 Type	62.5/125 µm (850/1300 nm)	62.5/125 µm (850/1300 nm)	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 (1310/1550 nm)
Performance Option Code	10	30	50	31	40	80	31
Maximum Attenuation (dB/km)	3.5/1.0	3.5/1.0	3.5/1.0	3.5/1.5	3.5/1.5	3.5/1.5	1.0/0.75
Typical Attenuation (dB/km)	3.0/1.0	3.0/1.0	3.0/1.0	3.0/1.0	3.0/1.0	3.0/1.0	0.5/0.4
Minimum LED Bandwidth (MHz•km)	160/500	200/500	200/500	500/500	700/500	1500/500	– / –
Minimum Effective Modal Bandwidth (MHz•km)	– / –	220/ – *	385/ – *	510/ – *	850/ – **	2000/ – **	– / –
Serial Gigabit Ethernet Distance (m)	220/550	300/550	500/1000	600/600	750/600	1000/600	5000/ –
Serial 10 Gigabit Ethernet Distance (m)	26/ –	33/ –	33/ –	82/ –	150/ –	300/ –	10000/40000

*EMB when deployed with 850 nm, 1 Gb/s VCSELs, as predicted by RML Bandwidth using FOTP-204.
**EMB when deployed with 850 nm, 10 Gb/s VCSELs, as predicted by DMD method using FOTP-220.

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2-24 Fiber
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Ordering Information

☐ ☐ ☐ ☐ 8 ☐ - 3 ☐ 1 ☐ ☐ - 24
1　　**2**　**3**　　**4**　**5**

1 **Select fiber count.**

Standard Offerings:
002	008	024
004	012	
006	018	

Contact Customer Service for availability of non-standard offerings.

2 **Select fiber type.**

K = 62.5/125 µm
C = 50/125 µm (use with performance option code 31)
S = 50/125 µm (use with performance option codes 40, 80)
R = Single-mode

3 **Select approval.**

1　= Standard
M = MSHA approved

4 **Select fiber identification scheme.**

1 = Fiber counts 2 to 8
3 = Fiber counts 12 to 24

5 **Select performance option code.**

10 = 62.5/125 µm
30 = 62.5/125 µm
50 = 62.5/125 µm
31 = 50/125 µm
40 = 50/125 µm
80 = 50/125 µm
31 = Single-mode

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Fiber Cabling Solutions for Premises Networks

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Corning
Cable Systems

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