

MIC[®] Unitized Plenum Cables, 36-144 Fibers

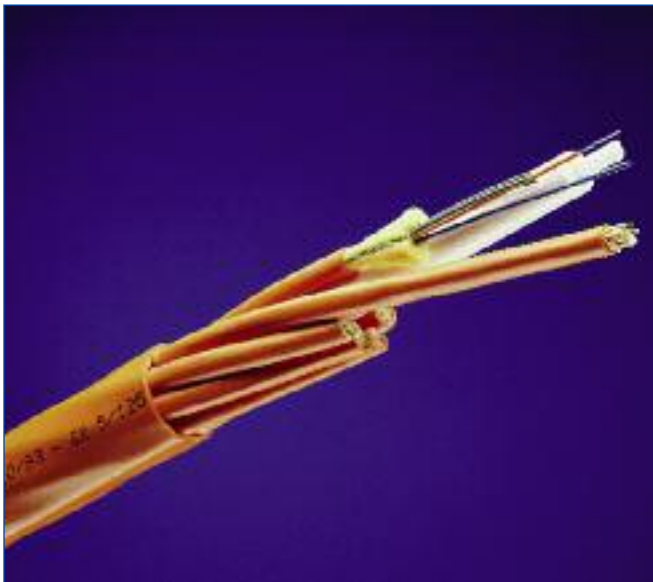
A LANscape[®]
Solutions Product

features and benefits |

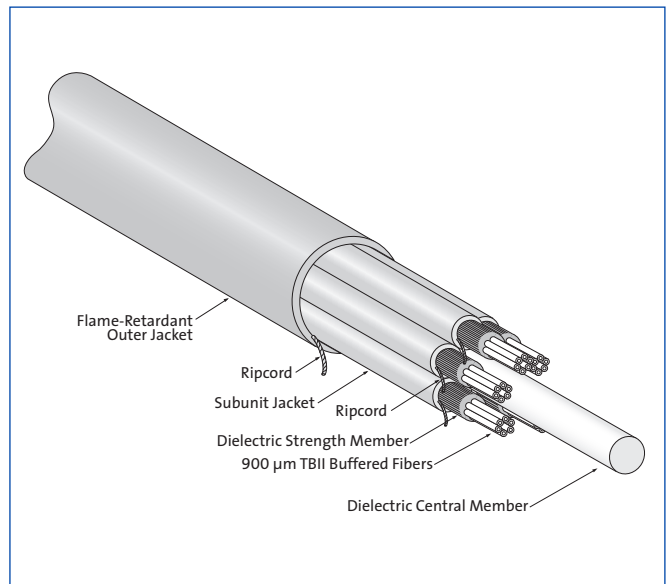
900 µm TBII[®] Buffered Fibers	Easy, consistent stripping
Six or 12-fiber jacketed subunits	Quick and easy identification
All-dielectric cable construction	Requires no grounding or bonding
Flame-retardant jacket	Rugged and durable

Corning Cable Systems MIC[®] Unitized Plenum Cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone installations. These multi-fiber cables use individually jacketed 900 µm TBII Buffered Fibers enabling easy, consistent stripping and facilitating termination. The stranded subunits of six or 12 fibers allow quick and easy identification and are surrounded by dielectric strength members and protected by a flame-retardant outer jacket. The all-dielectric cable construction requires no grounding or bonding, making these cables ideal for routing inside buildings, within plenum areas and riser shafts, to telecommunications rooms and workstations.

Available in 50 µm, 62.5 µm, single-mode and hybrid versions, the MIC Unitized Plenum Cables meet the application requirements of the National Electrical Code[®] (NEC[®] Article 770) and the ICEA S-83-596 test criteria and are OFNP and FT-6 listed. An interlocking armored option is available and they are also offered with Gigabit Ethernet and 10 Gigabit Ethernet performance.



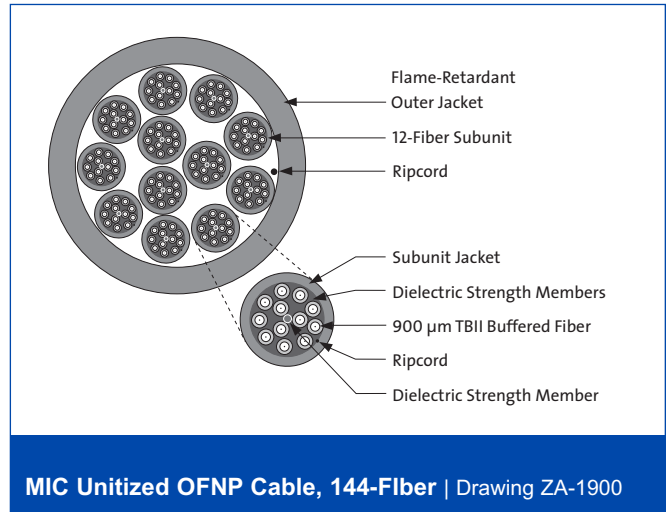
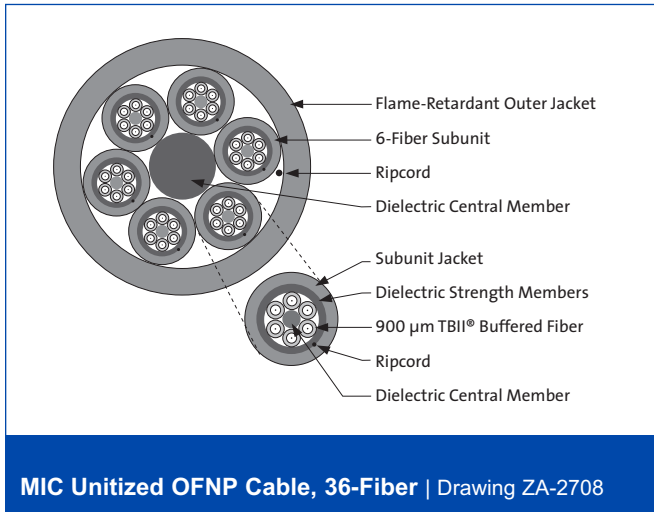
MIC Unitized Plenum Cable | Photo CLT17



MIC Unitized Plenum Cable, 36-Fiber
| Drawing ZA-1895

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specifications |

Maximum Tensile Loads Short-Term: 660 N (150 lbf)
 Long-Term: 200 N (45 lbf)

Temperatures Storage: -40° to +70°C (-40° to +158°F)
 Installation: 0° to +60°C (+32° to +140°F)
 Operation: 0° to +70°C (+32° to +158°F)

Approvals and Listings National Electrical Code[®] (NEC[®]) OFNP, CSA FT-6, ICEA S-83-596

Flame Resistance NFPA 262 (for plenum, riser and general building applications)

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.

Fiber Count	Unit Count	Nominal Outside Diameter mm (in)	Nominal Cable Weight kg/km (lb/1000 ft)	Central Member	Minimum Bend Radius Loaded cm (in)	Minimum Bend Radius Installed cm (in)
6-Fiber Subunits						
36	6	14.8 (0.58)	219 (147)	JG	22.2 (8.7)	14.8 (5.8)
48	8	17.8 (0.69)	314 (211)	JG	26.7 (10.5)	17.8 (6.9)
12-Fiber Subunits						
60	5	17.9 (0.70)	278 (187)	JG	26.9 (10.6)	17.9 (7.0)
72	6	18.6 (0.73)	330 (221)	JG	27.9 (11.0)	18.6 (7.3)
96	8	22.2 (0.87)	479 (321)	JG	33.3 (13.1)	22.2 (8.7)
144	12 (9/3)	23.7 (0.92)	489 (328)	—	35.6 (14.0)	23.7 (9.2)

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

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transmission performance |

	LANscape [®] 62.5 Solutions	LANscape Pretium [®] 150 Solutions	LANscape Pretium 300 Solutions	LANscape Pretium 550 Solutions	LANscape Pretium 600 Solutions	Single-Mode
Fiber Code	K	T	T	T	T	E
Performance Option Code	30	31	80	90	91	31
Optical Fiber Type (µm)	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode	50 Multimode	Single-mode****
ISO/IEC 11801 Nomenclature	OM1	OM2	OM3***	OM4***	OM4***	OS2
Wavelength (nm)	850/1300	850/1300	850/1300	850/1300	850/1300	1310/1383/1550
Maximum Attenuation (dB/km)	3.4/1.0	2.8/1.0	2.8/1.0	2.8/1.0	2.8/1.0	0.65/0.65/0.50
Minimum Over Filled 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 Distance (m)	300/550	750/600	1000/600	1100/600	1100/600	5000 / - / -
Serial 10 Gigabit Ethernet Distance (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™ Systems solutions.

**** ITU 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 Service 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 Service at 800-743-2671 for other options.

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8	8	-	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	<input type="checkbox"/>	-	2	9
1	2	3	4	5	6	7	8	9	10	11	12	13	14	

| 1-3

Select fiber count.

Standard offerings:

036	072
048	096
060	144

| 4

Select fiber code
(see Transmission
Performance table).

| 5 / 12

Defines cable type.

8 / - = MIC[®]/MIC Unitized
Cable family

| 6

Defines outer jacket.

8 = Plenum

| 7-8

Select number of fibers
per subunit.

61 = 6 fibers per subunit
(036-048 fibers)
T3 = 12 fibers per subunit
(060-144 fibers)

| 9

Defines tensile strength
(see Specifications).

| 10-11

Select performance
option code (see
Transmission
Performance table).

| 13-14

Defines special
manufacturing code.
29 = Standard for MIC
Unitized Riser Cables

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