CABLING SUPPORT STRUCTURE PRICING ADDENDUM

Description	Ref. No.	Mfg. Model No.	Equip. Unit Price	+	Install Unit Price	=	Total Unit Price	x	Est. Qty.	=	Total Bid Price
Fiber Optic Connectors											
SC Unicam 50um SX, ea	CS-310	95-050-41-X	22.29		75.00		97.29		1		97.29
SC Anaerobic MM 50um Aqua Boot, ea	CS-311	95-051-41-SP-X	7.05		75.00		82.05		1		82.05
Fiber Optic Cables and Innerduct											
50um Corning CMR:											
6 Fiber, MM, foot	CS-312	006T81-31180-24	1.42		3.71		5.13		1		5.13
12 Fiber, MM, foot	CS-313	012T81-33180-24	2.93		3.71		6.64		1		6.64
24 Fiber, MM, foot	CS-314	024T81-33180-24	5.94		3.71		9.65		1		9.65
50um Corning CMP:											
6 Fiber, MM, foot	CS-315	006T88-31180-29	1.57		3.71		5.28		1		5.28
12 Fiber, MM, foot	CS-316	012T88-33180-29	3.14		3.71		6.85		1		6.85
24 Fiber, MM, foot	CS-317	024T88-33180-29	6.77		3.71		10.48		1		10.48
50um Corning CMP Interlocking Armored Cable											
6 Fiber, MM, foot	CS-318	006T88-31180-A3	3.12		3.71		6.83		1		6.83
12 Fiber, MM, foot	CS-319	012T88-33180-A3	4.68		3.71		8.39		1		8.39
24 Fiber, MM, foot	CS-320	024T88-33180-A3	6.38		4.95		11.33		1		11.33
50um OM3, Corning Outdoor Loose Tube											
12 Fiber, MM, foot	CS-321	012TU4-T4180D20	4.11		4.45		8.56		1		8.56
24 Fiber, MM, foot	CS-322	024TU4-T4180D20	7.97		4.45		12.42		1		12.42
Closet Connector Housing Panels & Fan-out Kits											
CCH Pnl w/3 SC DPLX (6 Fiber) 50um, ea	CS-323	CCH-CP06-E7	63.47		14.85		78.32		1		78.32
CCH Pnl w/6 SC SX (12 Fiber), 50um, ea	CS-324	CCH-CP12-E7	110.92		14.85		125.77		1		125.77
						Sub-Total: Cabling and support Structures					**$1,439.97**

Description	Ref. No.	Rate	x	Sub-Total: Cabling and Support Structures	Total Bid Price
Regualtory Fees/Charges and Taxes					
Hawaii General Excise Tax	GET	0.04712		$1,460.98	$67.85
Others					
				Sub-Total: Regulatory Fees/Charges and Taxes	**$68.84**
				Total: Cabling and Support Structures-Addendum	**$1,508.81**

CS-310

UniCam® High-Performance Connector, SC

50 µm multimode (OM3/OM4 compatible)

CORNING

Corning Cable Systems UniCam® High-Performance Connectors offer best-in-class optical performance in a fast, easy field-termination solution. These high-precision connectors guarantee exceptional insert loss – 0.1 dB typical/0.5 dB maximum per connector pair for multimode, 0.2 dB typical/0.5 dB maximum per connector pair for single-mode. Installation of an LC, SC, or ST® Compatible Connector can be accomplished in about 45 seconds with the UniCam High-Performance Tool Kit. The lightweight, handheld installation tool and the high-performance cleaver virtually eliminate human variability from installation, ensuring terminations are right, the first time, every time. This kit was designed with consideration for the network installers, from the cleaver, with its integrated fiber scrap bin and dual-clamp precision hold, to the installation tool, with its immediate go/no-go feedback signal. Installation is as easy as strip, clean, cleave, cam and crimp, with exceptional optical performance guaranteed. Every UniCam Connector is guaranteed to meet the published specification at the time of installation or Corning Cable Systems will replace it.

Part Number: 95-050-41-X

Features and Benefits

Broad operating temperature (-40° to +75°C)
Utility and flexibility

Factory-polished end face
Consistent optical performance

Fast termination and no consumables
Low installation cost

Minimum insertion loss
Optimum optical performance

Part Number: 95-050-41-X

Standards

Approval and Listings	Passed EIA/TIA 568-B.3
Intermateability	Connectors are FOCIS compliant with TIA/EIA 604-10A and IEC61754-20

CS-310

CORNING

UniCam® High-Performance Connector, SC

50 µm multimode (OM3/OM4 compatible)

CORNING

Specifications

General Specifications	
Product Type	Field-Installable Connectors
Technology	No-Epoxy/No-Polish
Keyed	No
Corning Logo	Yes
Packaging	Single Pack
Fiber Category	50 µm MM (OM3/OM4 compatible)

Temperature Range	
Operation	-40 °C to 75 °C exceeding EIA/TIA 568-B.3 (-40 °F to 167 °F exceeding EIA/TIA 568-B.3)

Design - Connector A	
Connector Type	SC
Ferrule	Ceramic
Housing Material	Composite
Housing Color	Black
Boot Color	Aqua

Mechanical Specifications - Connector A	
Durability	≤ 0.2 dB change by 500 rematings, FOTP-21
Tensile Strength Jacketed Cable	44 N, change ≤ 0.2 dB, FOTP-6 (10 lb, change ≤ 0.2 dB, FOTP-6)
Tensile Strength 900µ Cable	2.2 N, change ≤ 0.2 dB, FOTP-6 (0.5 lb, change ≤ 0.2 dB, FOTP-6)
Temperature Cycling	≤ 0.3 dB IL, -40° to +75°C, 21 cycles
Nominal Fiber Outer Diameter	125 µm

CS-310

CORNING

UniCam® High-Performance Connector, SC

50 µm multimode (OM3/OM4 compatible)

CORNING

Optical Specifications - Connector A	
Insertion Loss, Typical	0.1 dB
Insertion Loss, Max.	0.5 dB
Reflectance	≤ -20 dB

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

Ordering Information

Part Number	95-050-41-X
Product Description	UniCam® High-Performance Connector, SC, 50 µm multimode (OM3/OM4 compatible), ceramic ferrule, logo, single pack, black housing, aqua boot

Shipping Information

Units per Delivery	1/1
Package Contents	Connector, shroud, crimp band, boot (900 µm), boot (3.0 mm)

CS-310

RoHS COMPLIANT

Corning Cable Systems LLC • PO Box 489 • Hickory, NC 28603-0489 USA
800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/cablesystems

CS-311

Anaerobic Connector, SC

50 µm multimode (OM3/OM4/OM4 extended 10G distance)

Corning Cable Systems Anaerobic-Cure Connectors offer optical performance in a fast, easy field-termination solution designed for fiber-to-the-workstation applications for single-mode and multimode connections. This connector combines the quick-cure convenience of anaerobic adhesive with the performance of epoxy-and-polish connectors. Ideal for enterprise networks and any installations requiring field-installed connectors, the anaerobic-cure technology enables fiber optic networks to be installed cost effectively with minimal tools.Installation of the connector can be accomplished in minutes with the anaerobic adhesive two-part epoxy process. The adhesive is first injected into the connector ferrule and then the fiber is dipped into the primer and inserted into the connector. Curing takes only one minute without the use of lamps or ovens. With the hand-polish process, an average insertion loss of 0.2 dB is achieved.

Features and Benefits

Quick-cure epoxy
No lamps or ovens needed

Minimal tools and no index-matching gel
Low installation cost

Hand polished for minimum insertion loss
Reliability and optical performance

Standards

Intermateability	Compliant with TIA/EIA 604-3

CS-311

Specifications

General Specifications	
Technology	Field Polish (anaerobic)
Keyed	No
Packaging	Single Pack
Product Type	Field-Installable Connectors
Corning Logo	Yes
Fiber Category	50 µm MM (OM3/OM4/OM4 extended 10G distance)

Anaerobic Connector, SC

50 µm multimode (OM3/OM4/OM4 extended 10G distance)

CORNING

Design - Connector A	
Connector Type	SC
Ferrule	Ceramic
Housing Material	Composite
Housing Color	Black
Boot Color	Aqua

Mechanical Specifications - Connector A	
Temperature Cycling	≤ 0.3 dB IL, -40° to +75°C, 21 cycles

Optical Specifications - Connector A	
Insertion Loss, Typical	≤ 0.2 dB
Insertion Loss, Max.	≤ 0.75 dB
Reflectance	≤ -26 dB

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

Ordering Information

Part Number	95-051-41-SP-X
Product Description	SC Connector, 50 µm multimode (OM3/OM4/OM4 extended 10G distance), ceramic ferrule, composite hardware, single pack, black housing, aqua boot

Shipping Information

Units per Delivery	1/1
Package Contents	Connector, Shroud, Crimp Band (1.6/2.0 mm), Crimp Band (3.0 mm), Boot (900 µm), Boot (2.0 mm), Boot (3.0 mm)

CS-311

CORNING

CS-312

MIC® Tight-Buffered Cable, Riser

6 F, 50 µm multimode (OM3)

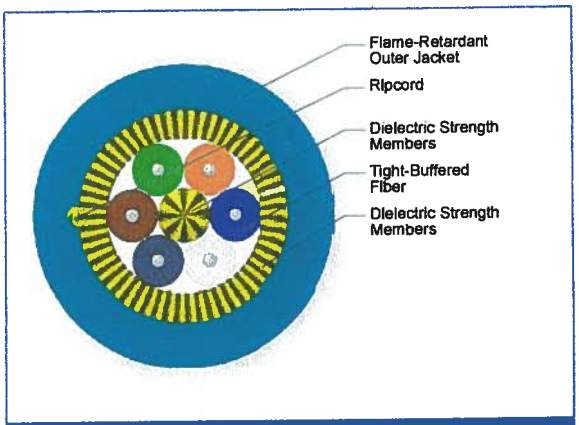
CORNING

Corning Cable Systems MIC® Riser Cables are designed for use in riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use 900 µm TBII® Buffered Fibers to enable easy, consistent stripping and facilitate termination. The fibers are surrounded by dielectric strength members and protected by a flame-retardant outer jacket.

The all-dielectric cable construction requires no grounding or bonding. MIC Plenum cables are ideal for routing inside buildings, within plenum areas and riser shafts, to the telecommunications rooms and workstations. The MIC Plenum Cables meet the application requirements of the National Electrical Code® (NEC®) Article 770 and are OFNP and FT-6 listed.

This cable is available in 12 different jacket colors - blue, orange, green, brown, slate, white, red, black, yellow, purple, rose and aqua. The colored jacket allows for easy visual identification of the cables. The standard jacket color will be determined by the dominant fiber type in the cable and will use the standard part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other color options.

Part Number 006T81-31180-24



Cross Section of Part Number 006T81-31180-24

Features and Benefits

900 µm TBII® Buffered Fibers
Easy, consistent stripping

All-dielectric construction
Requires no grounding or bonding

Flame-retardant jacket
Rugged and durable

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)

CS-312

CORNING

MIC® Tight-Buffered Cable, Riser

6 F, 50 µm multimode (OM3)

CORNING

Specifications

General Specifications	
Environment	Indoor
Application	General Purpose Horizontal, Vertical Riser
Cable Type	Tight-Buffered
Product Type	Distribution
Flame Rating	Riser (OFNR)
Fiber Category	50 µm MM (OM3)

Temperature Range	
Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	-10 °C to 60 °C (14 °F to 140 °F)
Operation	-20 °C to 70 °C (-4 °F to 158 °F)

Cable Design	
Central Element	Yarn
Fiber Count	6
Tight Buffer Color	Blue, Orange, Green, Brown, Slate, White
Tensile Strength Elements / Armoring - Layer 1	Dielectric strength members
Number of Ripcords	1
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Aqua

Mechanical Characteristics Cable	
Max. Tensile Strengths, Short-Term	660 N (150 lbf)
Max. Tensile Strengths, Long-Term	200 N (45 lbf)
Nominal Outer Diameter	5.5 mm (0.22 in)
Weight	26 kg/km (17 lb/1000 ft)
Min. Bend Radius Installation	83 mm (3.3 in)
Min. Bend Radius Operation	28 mm (1.1 in)

CS-312

CORNING

MIC® Tight-Buffered Cable, Riser

6 F, 50 µm multimode (OM3)

CORNING

Fiber Specifications

Optical Characteristics (cabled)	
Fiber Core Diameter	50 µm
Fiber Type	Multimode
Fiber Category	OM3
Fiber Code	T
Performance Option Code	80
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	2.8 dB/km / 1 dB/km
Min. Overfilled Launch (OFL) Bandwidth	1500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	2000 MHz*km / -
Serial 1 Gigabit Ethernet	1000 m / 600 m
Serial 10 Gigabit Ethernet	300 m / -
Induced Attenuation @ 7.5 mm Radius	< 30 dB up to 80 dB

* Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions

Notes:
1) 50 µm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel
2) Improved attenuation and bandwidth options available
3) Bend-insensitive single-mode fibers available on request
4) Contact a Corning Cable Systems Customer Service Representative for additional information

Ordering Information

Part Number	006T81-31180-24
Product Description	MIC® Tight-Buffered Cable, Riser, 6 F, 50 µm multimode (OM3)

CS-312

RoHS COMPLIANT

Corning Cable Systems LLC • PO Box 489 • Hickory, NC 28603-0489 USA
800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/cablesystems

CS-313

MIC® Tight-Buffered Cable, Riser

12 F, 50 µm multimode (OM3)

Corning Cable Systems MIC® Riser Cables are designed for use in riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use 900 µm TBII® Buffered Fibers to enable easy, consistent stripping and facilitate termination. The fibers are surrounded by dielectric strength members and protected by a flame-retardant outer jacket.

The all-dielectric cable construction requires no grounding or bonding. MIC Plenum cables are ideal for routing inside buildings, within plenum areas and riser shafts, to the telecommunications rooms and workstations. The MIC Plenum Cables meet the application requirements of the National Electrical Code® (NEC®) Article 770 and are OFNP and FT-6 listed.

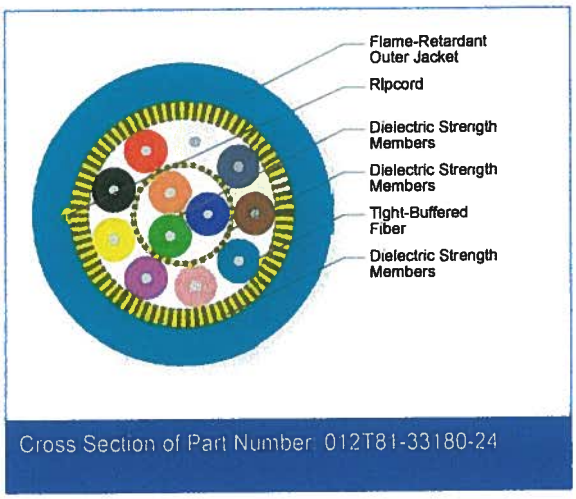
Part Number 012T81-33180-24

Features and Benefits

900 µm TBII® Buffered Fibers
Easy, consistent stripping

All-dielectric construction
Requires no grounding or bonding

Flame-retardant jacket
Rugged and durable



Cross Section of Part Number 012T81-33180-24

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)

CS-313

MIC® Tight-Buffered Cable, Riser

12 F, 50 µm multimode (OM3)

CORNING

Specifications

General Specifications	
Environment	Indoor
Application	General Purpose Horizontal, Vertical Riser
Cable Type	Tight-Buffered
Product Type	Distribution
Flame Rating	Riser (OFNR)
Fiber Category	50 µm MM (OM3)

Temperature Range	
Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	-10 °C to 60 °C (14 °F to 140 °F)
Operation	-20 °C to 70 °C (-4 °F to 158 °F)

Cable Design	
Central Element	Yarn
Fiber Count	12
Tight Buffer Color	Blue, Orange, Green
Tensile Strength Elements / Armoring - Layer 1	Dielectric strength members
Tight Buffer Color, Layer 2	Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Tensile Strength Elements / Armoring - Layer 2	Dielectric strength members
Number of Ripcords	1
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Aqua

Mechanical Characteristics Cable	
Max. Tensile Strengths, Short-Term	660 N (150 lbf)
Max. Tensile Strengths, Long-Term	200 N (45 lbf)
Nominal Outer Diameter	6.3 mm (0.25 in)
Weight	32 kg/km (22 lb/1000 ft)
Min. Bend Radius Installation	95 mm (3.7 in)
Min. Bend Radius Operation	32 mm (1.3 in)

CS-313

CORNING

MIC® Tight-Buffered Cable, Riser

12 F, 50 µm multimode (OM3)

CORNING

Fiber Specifications

Optical Characteristics (cabled)	
Fiber Core Diameter	50 µm
Fiber Type	Multimode
Fiber Category	OM3
Fiber Code	T
Performance Option Code	80
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	2.8 dB/km / 1 dB/km
Min. Overfilled Launch (OFL) Bandwidth	1500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	2000 MHz*km / -
Serial 1 Gigabit Ethernet	1000 m / 600 m
Serial 10 Gigabit Ethernet	300 m / -
Induced Attenuation @ 7.5 mm Radius	< 30 dB up to 80 dB

* Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions

Notes:
1) 50 µm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel
2) Improved attenuation and bandwidth options available
3) Bend-insensitive single-mode fibers available on request
4) Contact a Corning Cable Systems Customer Service Representative for additional information

Ordering Information

Part Number	012T81-33180-24
Product Description	MIC® Tight-Buffered Cable, Riser, 12 F, 50 µm multimode (OM3)

CS-313

RoHS COMPLIANT

Corning Cable Systems LLC • PO Box 489 • Hickory, NC 28603-0489 USA
800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/cablesystems

MIC® Tight-Buffered Cable, Riser

24 F, 50 µm multimode (OM3)

CORNING

Corning Cable Systems MIC® Riser Cables are designed for use in riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use 900 µm TBII® Buffered Fibers to enable easy, consistent stripping and facilitate termination. The fibers are surrounded by dielectric strength members and protected by a flame-retardant outer jacket.

The all-dielectric cable construction requires no grounding or bonding. MIC Plenum cables are ideal for routing inside buildings, within plenum areas and riser shafts, to the telecommunications rooms and workstations. The MIC Plenum Cables meet the application requirements of the National Electrical Code® (NEC®) Article 770 and are OFNP and FT-6 listed.

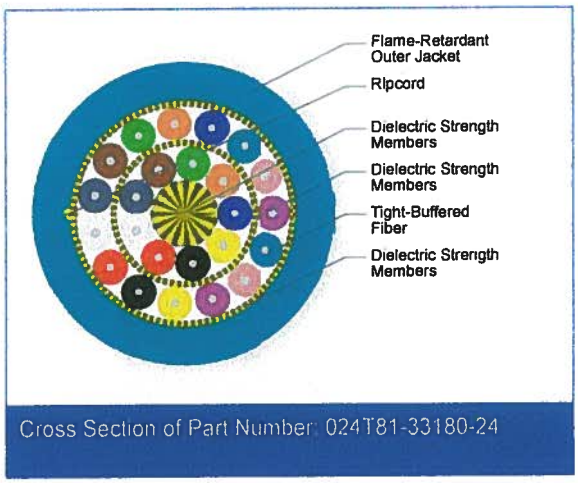
Part Number 024T81-33180-24

Features and Benefits

900 µm TBII® Buffered Fibers
Easy, consistent stripping

All-dielectric construction
Requires no grounding or bonding

Flame-retardant jacket
Rugged and durable



Cross Section of Part Number 024T81-33180-24

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)

MIC® Tight-Buffered Cable, Riser

24 F, 50 µm multimode (OM3)

CORNING

Specifications

General Specifications	
Environment	Indoor
Application	General Purpose Horizontal, Vertical Riser
Cable Type	Tight-Buffered
Product Type	Distribution
Flame Rating	Riser (OFNR)
Fiber Category	50 µm MM (OM3)

Temperature Range	
Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	-10 °C to 60 °C (14 °F to 140 °F)
Operation	-20 °C to 70 °C (-4 °F to 158 °F)

Cable Design	
Central Element	Yarn
Fiber Count	24
Tight Buffer Color	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow
Tensile Strength Elements / Armoring - Layer 1	Dielectric strength members
Tight Buffer Color, Layer 2	Violet, Rose, Aqua, Blue*, Orange*, Green*, Brown*, Slate*, White*, Red*, Black*, Yellow*, Violet*, Rose*, Aqua*
Tensile Strength Elements / Armoring - Layer 2	Dielectric strength members
Number of Ripcords	1
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Aqua

Mechanical Characteristics Cable	
Max. Tensile Strengths, Short-Term	660 N (150 lbf)
Max. Tensile Strengths, Long-Term	200 N (45 lbf)
Nominal Outer Diameter	8 mm (0.31 in)
Weight	56 kg/km (39 lb/1000 ft)
Min. Bend Radius Installation	120 mm (4.7 in)
Min. Bend Radius Operation	80 mm (3.1 in)

CS-314

CORNING

MIC® Tight-Buffered Cable, Riser

24 F, 50 µm multimode (OM3)

CORNING

Fiber Specifications

Optical Characteristics (cabled)	
Fiber Core Diameter	50 µm
Fiber Type	Multimode
Fiber Category	OM3
Fiber Code	T
Performance Option Code	80
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	2.8 dB/km / 1 dB/km
Min. Overfilled Launch (OFL) Bandwidth	1500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	2000 MHz*km / -
Serial 1 Gigabit Ethernet	1000 m / 600 m
Serial 10 Gigabit Ethernet	300 m / -
Induced Attenuation @ 7.5 mm Radius	< 30 dB up to 80 dB

* Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions

Notes:
1) 50 µm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel
2) Improved attenuation and bandwidth options available
3) Bend-insensitive single-mode fibers available on request
4) Contact a Corning Cable Systems Customer Service Representative for additional information

Ordering Information

Part Number	024T81-33180-24
Product Description	MIC® Tight-Buffered Cable, Riser, 24 F, 50 µm multimode (OM3)

CS-314

RoHS COMPLIANT

Corning Cable Systems LLC • PO Box 489 • Hickory, NC 28603-0489 USA
800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/cablesystems

MIC® Tight-Buffered Cable, Plenum

6 F, 50 µm multimode (OM3)

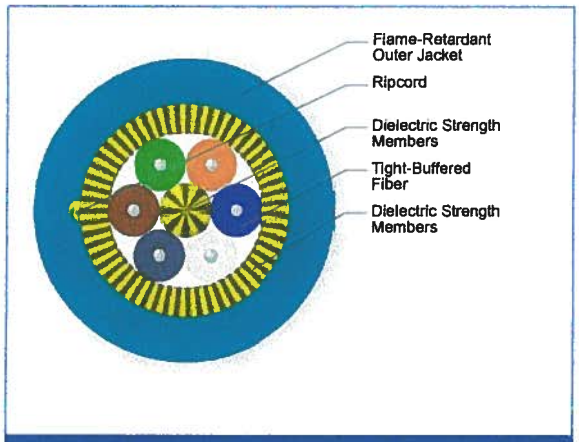
CORNING

Corning Cable Systems MIC® Plenum Cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use 900 µm TBII® Buffered Fibers to allow easy, consistent stripping and to facilitate termination. The fibers are surrounded by dielectric strength members and protected by a flame-retardant outer jacket.

The all-dielectric cable construction requires no grounding or bonding. MIC Plenum cables are ideal for routing inside buildings, within plenum areas and riser shafts, to the telecommunications rooms and workstations. The MIC Plenum Cables meet the application requirements of the National Electrical Code® (NEC®) Article 770 and are OFNP and FT-6 listed.

This cable is available in 12 different jacket colors - blue, orange, green, brown, slate, white, red, black, yellow, purple, rose and aqua. The colored jacket allows for easy visual identification of the cables. The standard jacket color will be determined by the dominant fiber type in the cable and will use the standard part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other color options.

Part Number 006T88-31180-29



Cross Section of Part Number 006T88-31180-29

Features and Benefits

900 µm TBII® Buffered Fibers
Easy, consistent stripping

All-dielectric construction
Requires no grounding or bonding

Flame-retardant jacket
Rugged and durable

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 applications)

CORNING

MIC® Tight-Buffered Cable, Plenum

6 F, 50 µm multimode (OM3)

CORNING

Specifications

General Specifications	
Environment	Indoor
Application	General Purpose Horizontal, Vertical Riser, Plenum
Cable Type	Tight-Buffered
Product Type	Distribution
Flame Rating	Plenum (OFNP)
Fiber Category	50 µm MM (OM3)

Temperature Range	
Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	0 °C to 60 °C (32 °F to 140 °F)
Operation	0 °C to 70 °C (32 °F to 158 °F)

Cable Design	
Central Element	Yarn
Fiber Count	6
Tight Buffer Color	Blue, Orange, Green, Brown, Slate, White
Tensile Strength Elements / Armoring - Layer 1	Dielectric strength members
Number of Ripcords	1
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Aqua

Mechanical Characteristics Cable	
Max. Tensile Strengths, Short-Term	440 N (100 lbf)
Max. Tensile Strengths, Long-Term	132 N (30 lbf)
Nominal Outer Diameter	5.3 mm (0.21 in)
Weight	27 kg/km (19 lb/1000 ft)
Min. Bend Radius Installation	80 mm (3.2 in)
Min. Bend Radius Operation	27 mm (1.1 in)

CS-315

CORNING

MIC® Tight-Buffered Cable, Plenum

6 F, 50 µm multimode (OM3)

CORNING

Fiber Specifications

Optical Characteristics (cabled)	
Fiber Core Diameter	50 µm
Fiber Type	Multimode
Fiber Category	OM3
Fiber Code	T
Performance Option Code	80
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	2.8 dB/km / 1 dB/km
Min. Overfilled Launch (OFL) Bandwidth	1500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	2000 MHz*km / -
Serial 1 Gigabit Ethernet	1000 m / 600 m
Serial 10 Gigabit Ethernet	300 m / -
Induced Attenuation @ 7.5 mm Radius	< 30 dB up to 80 dB

* Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions

Notes:
1) 50 µm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel
2) Improved attenuation and bandwidth options available
3) Bend-insensitive single-mode fibers available on request
4) Contact a Corning Cable Systems Customer Service Representative for additional information

Ordering Information

Part Number	006T88-31180-29
Product Description	MIC® Tight-Buffered Cable, Plenum, 6 F, 50 µm multimode (OM3)

CS-315

RoHS COMPLIANT

Corning Cable Systems LLC • PO Box 489 • Hickory, NC 28603-0489 USA
800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/cablesystems

MIC® Tight-Buffered Cable, Plenum

12 F, 50 µm multimode (OM3)

CORNING

Corning Cable Systems MIC® Plenum Cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use 900 µm TBII® Buffered Fibers to allow easy, consistent stripping and to facilitate termination. The fibers are surrounded by dielectric strength members and protected by a flame-retardant outer jacket.

The all-dielectric cable construction requires no grounding or bonding. MIC Plenum cables are ideal for routing inside buildings, within plenum areas and riser shafts, to the telecommunications rooms and workstations. The MIC Plenum Cables meet the application requirements of the National Electrical Code® (NEC®) Article 770 and are OFNP and FT-6 listed.

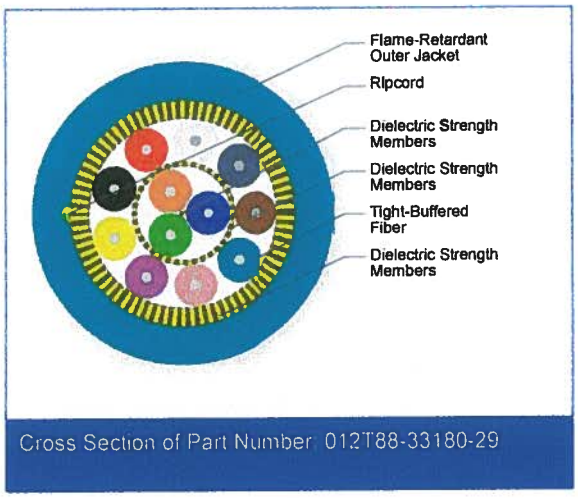
Part Number 012T88-33180-29

Features and Benefits

900 µm TBII® Buffered Fibers
Easy, consistent stripping

All-dielectric construction
Requires no grounding or bonding

Flame-retardant jacket
Rugged and durable



Cross Section of Part Number 012T88-33180-29

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 applications)

CS-316

CORNING

MIC® Tight-Buffered Cable, Plenum

12 F, 50 µm multimode (OM3)

CORNING

Specifications

General Specifications	
Environment	Indoor
Application	General Purpose Horizontal, Vertical Riser, Plenum
Cable Type	Tight-Buffered
Product Type	Distribution
Flame Rating	Plenum (OFNP)
Fiber Category	50 µm MM (OM3)

Temperature Range	
Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	0 °C to 60 °C (32 °F to 140 °F)
Operation	0 °C to 70 °C (32 °F to 158 °F)

Cable Design	
Central Element	Yarn
Fiber Count	12
Tight Buffer Color	Blue, Orange, Green
Tensile Strength Elements / Armoring - Layer 1	Dielectric strength members
Tight Buffer Color, Layer 2	Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Tensile Strength Elements / Armoring - Layer 2	Dielectric strength members
Number of Ripcords	1
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Aqua

Mechanical Characteristics Cable	
Max. Tensile Strengths, Short-Term	440 N (100 lbf)
Max. Tensile Strengths, Long-Term	132 N (30 lbf)
Nominal Outer Diameter	6.1 mm (0.24 in)
Weight	37 kg/km (26 lb/1000 ft)
Min. Bend Radius Installation	92 mm (3.6 in)
Min. Bend Radius Operation	31 mm (1.2 in)

CS-316

CORNING

MIC® Tight-Buffered Cable, Plenum

12 F, 50 µm multimode (OM3)

Fiber Specifications

Optical Characteristics (cabled)	
Fiber Core Diameter	50 µm
Fiber Type	Multimode
Fiber Category	OM3
Fiber Code	T
Performance Option Code	80
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	2.8 dB/km / 1 dB/km
Min. Overfilled Launch (OFL) Bandwidth	1500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	2000 MHz*km / -
Serial 1 Gigabit Ethernet	1000 m / 600 m
Serial 10 Gigabit Ethernet	300 m / -
Induced Attenuation @ 7.5 mm Radius	< 30 dB up to 80 dB

* Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions

Notes:
1) 50 µm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel
2) Improved attenuation and bandwidth options available
3) Bend-insensitive single-mode fibers available on request
4) Contact a Corning Cable Systems Customer Service Representative for additional information

Ordering Information

Part Number	012T88-33180-29
Product Description	MIC® Tight-Buffered Cable, Plenum, 12 F, 50 µm multimode (OM3)

CS-316

RoHS COMPLIANT

Corning Cable Systems LLC • PO Box 489 • Hickory, NC 28603-0489 USA
800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/cablesystems

CORNING

CS-317

MIC® Tight-Buffered Cable, Plenum

24 F, 50 µm multimode (OM3)

CORNING

Coming Cable Systems MIC® Plenum Cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use 900 µm TBII® Buffered Fibers to allow easy, consistent stripping and to facilitate termination. The fibers are surrounded by dielectric strength members and protected by a flame-retardant outer jacket.

The all-dielectric cable construction requires no grounding or bonding. MIC Plenum cables are ideal for routing inside buildings, within plenum areas and riser shafts, to the telecommunications rooms and workstations. The MIC Plenum Cables meet the application requirements of the National Electrical Code® (NEC®) Article 770 and are OFNP and FT-6 listed.

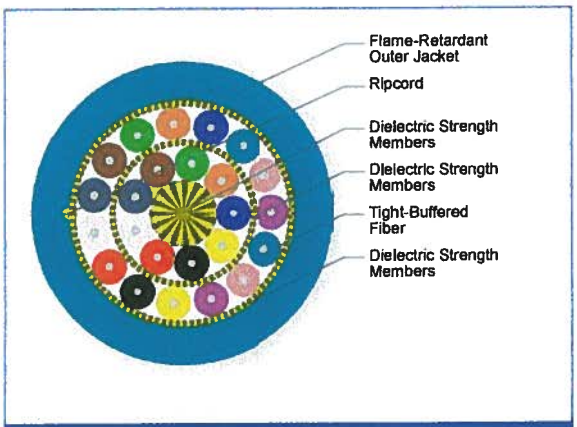
Part Number: 024T88-33180-29

Features and Benefits

900 µm TBII® Buffered Fibers
Easy, consistent stripping

All-dielectric construction
Requires no grounding or bonding

Flame-retardant jacket
Rugged and durable



Cross Section of Part Number: 024T88-33180-29

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 applications)

CS-317

CORNING

MIC® Tight-Buffered Cable, Plenum

24 F, 50 µm multimode (OM3)

CORNING

Specifications

General Specifications	
Environment	Indoor
Application	General Purpose Horizontal, Vertical Riser, Plenum
Cable Type	Tight-Buffered
Product Type	Distribution
Flame Rating	Plenum (OFNP)
Fiber Category	50 µm MM (OM3)

Temperature Range	
Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	0 °C to 60 °C (32 °F to 140 °F)
Operation	0 °C to 70 °C (32 °F to 158 °F)

Cable Design	
Central Element	Yarn
Fiber Count	24
Tight Buffer Color	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow
Tensile Strength Elements / Armoring - Layer 1	Dielectric strength members
Tight Buffer Color, Layer 2	Violet, Rose, Aqua, Blue*, Orange*, Green*, Brown*, Slate*, White*, Red*, Black*, Yellow*, Violet*, Rose*, Aqua*
Tensile Strength Elements / Armoring - Layer 2	Dielectric strength members
Number of Ripcords	1
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Aqua

Mechanical Characteristics Cable	
Max. Tensile Strengths, Short-Term	440 N (100 lbf)
Max. Tensile Strengths, Long-Term	132 N (30 lbf)
Nominal Outer Diameter	7.8 mm (0.31 in)
Weight	64 kg/km (45 lb/1000 ft)
Min. Bend Radius Installation	117 mm (4.6 in)
Min. Bend Radius Operation	78 mm (3.1 in)

CS-317

CORNING

MIC® Tight-Buffered Cable, Plenum

24 F, 50 µm multimode (OM3)

Fiber Specifications

Optical Characteristics (cabled)	
Fiber Core Diameter	50 µm
Fiber Type	Multimode
Fiber Category	OM3
Fiber Code	T
Performance Option Code	80
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	2.8 dB/km / 1 dB/km
Min. Overfilled Launch (OFL) Bandwidth	1500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	2000 MHz*km / -
Serial 1 Gigabit Ethernet	1000 m / 600 m
Serial 10 Gigabit Ethernet	300 m / -
Induced Attenuation @ 7.5 mm Radius	< 30 dB up to 80 dB

* Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions

Notes:
1) 50 µm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel
2) Improved attenuation and bandwidth options available
3) Bend-insensitive single-mode fibers available on request
4) Contact a Corning Cable Systems Customer Service Representative for additional information

Ordering Information

Part Number	024T88-33180-29
Product Description	MIC® Tight-Buffered Cable, Plenum, 24 F, 50 µm multimode (OM3)

CS-317

RoHS COMPLIANT

Corning Cable Systems LLC • PO Box 489 • Hickory, NC 28603-0489 USA
800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/cablesystems

CORNING

CS-318

MIC® Tight-Buffered, Interlocking Armored Cable, Plenum

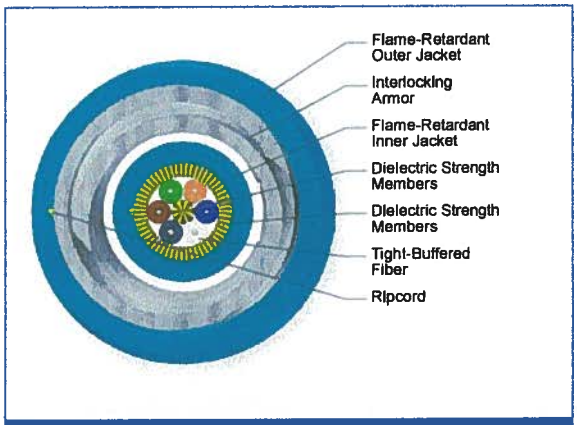
6 F, 50 µm multimode (OM3)

Corning Cable Systems MIC® Interlocking Armored Plenum Cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use individually jacketed TBII® Buffered Fibers enabling easy, consistent stripping and facilitating termination. The fibers are grouped into jacketed subunits and surrounded by a dielectric central member.

The core is protected by a flexible, spirally wrapped, aluminum interlocking armor that offers easy, one-step installation and over seven times the crush protection of unarmored cables. With a flame-retardant outer jacket, this cable is particularly useful for heavy traffic or more challenging mechanical exposure conditions and applications requiring extra rugged cables.

This cable is available in 12 different jacket colors - blue, orange, green, brown, slate, white, red, black, yellow, purple, rose and aqua. The colored jacket allows for easy visual identification of the cables. The standard jacket color will be determined by the dominant fiber type in the cable and will use the standard part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other color options.

Part Number: 006T88-31180-A3



Cross Section of Part Number: 006T88-31180-A3

Features and Benefits

Flexible, interlocking armor design
Seven times crush protection compared to unarmored cables

TBII® Buffered Fibers
Easy, consistent stripping

Flame-retardant jacket
Rugged and durable

Standards

Approval and Listings	National Electrical Code® (NEC®) OFCP, CSA FT-6, ICEA S-83-596
Flame Resistance	NFPA 262 (for plenum, riser and general building applications)

CS-318

CORNING

MIC® Tight-Buffered, Interlocking Armored Cable, Plenum

6 F, 50 µm multimode (OM3)

CORNING

Specifications

General Specifications	
Environment	Indoor
Application	General Purpose Horizontal, Vertical Riser, Plenum
Cable Type	Tight-Buffered
Product Type	Interlocking armor
Flame Rating	Plenum (OFCP)
Fiber Category	50 µm MM (OM3)

Temperature Range	
Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	0 °C to 60 °C (32 °F to 140 °F)
Operation	0 °C to 70 °C (32 °F to 158 °F)

Cable Design	
Central Element	Yarn
Fiber Count	6
Tight Buffer Color	Blue, Orange, Green, Brown, Slate, White
Tensile Strength Elements / Armoring - Layer 1	Dielectric strength members
Number of Ripcords	2
Inner Jacket Material	Flame-retardant
Tensile Strength Elements / Armoring - Layer 3	Interlocking armor
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Aqua

Mechanical Characteristics Cable	
Nominal Inner Cable Diameter	5.3 mm (0.21 in)
Nominal Outer Diameter	12.2 mm (0.48 in)
Weight	138 kg/km (92 lb/1000 ft)
Max. Tensile Strengths, Short-Term	440 N (100 lbf)
Max. Tensile Strengths, Long-Term	132 N (30 lbf)
Min. Bend Radius Installation	183 mm (7.2 in)
Min. Bend Radius Operation	122 mm (4.8 in)

CS-318

CORNING

MIC® Tight-Buffered, Interlocking Armored Cable, Plenum

6 F, 50 µm multimode (OM3)

CORNING

Fiber Specifications

Optical Characteristics (cabled)	
Fiber Core Diameter	50 µm
Fiber Type	Multimode
Fiber Category	OM3
Fiber Code	T
Performance Option Code	80
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	2.8 dB/km / 1 dB/km
Min. Overfilled Launch (OFL) Bandwidth	1500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	2000 MHz*km / -
Serial 1 Gigabit Ethernet	1000 m / 600 m
Serial 10 Gigabit Ethernet	300 m / -
Induced Attenuation @ 7.5 mm Radius	< 30 dB up to 80 dB

* Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions

Notes:
1) 50 µm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel
2) Improved attenuation and bandwidth options available
3) Bend-insensitive single-mode fibers available on request
4) Contact a Corning Cable Systems Customer Service Representative for additional information

Ordering Information

Part Number	006T88-31180-A3
Product Description	MIC® Tight-Buffered, Interlocking Armored Cable, Plenum, 6 F, 50 µm multimode (OM3)

CS-318

RoHS COMPLIANT

Corning Cable Systems LLC • PO Box 489 • Hickory, NC 28603-0489 USA
800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/cablesystems

MIC® Tight-Buffered, Interlocking Armored Cable, Plenum

12 F, 50 µm multimode (OM3)

CORNING

Corning Cable Systems MIC® Interlocking Armored Plenum Cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use individually jacketed TBII® Buffered Fibers enabling easy, consistent stripping and facilitating termination. The fibers are grouped into jacketed subunits and surrounded by a dielectric central member.

The core is protected by a flexible, spirally wrapped, aluminum interlocking armor that offers easy, one-step installation and over seven times the crush protection of unarmored cables. With a flame-retardant outer jacket, this cable is particularly useful for heavy traffic or more challenging mechanical exposure conditions and applications requiring extra rugged cables.

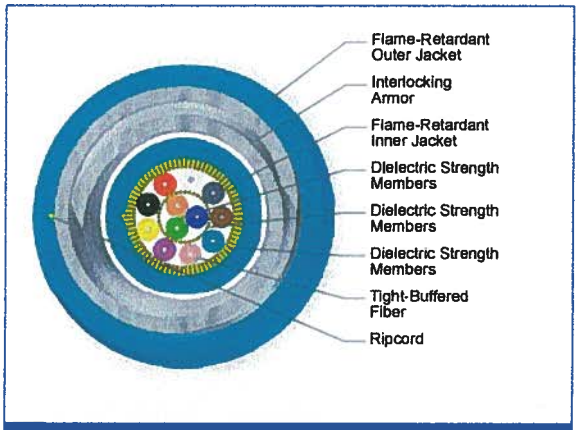
Part Number 012T88-33180-A3

Features and Benefits

Flexible, interlocking armor design
Seven times crush protection compared to unarmored cables

TBII® Buffered Fibers
Easy, consistent stripping

Flame-retardant jacket
Rugged and durable



Cross Section of Part Number 012T88-33180-A3

Standards

Approval and Listings	National Electrical Code® (NEC®) OFCP, CSA FT-6, ICEA S-83-596
Flame Resistance	NFPA 262 (for plenum, riser and general building applications)

CS-319

CORNING

MIC® Tight-Buffered, Interlocking Armored Cable, Plenum

12 F, 50 µm multimode (OM3)

CORNING

Specifications

General Specifications	
Environment	Indoor
Application	General Purpose Horizontal, Vertical Riser, Plenum
Cable Type	Tight-Buffered
Product Type	Interlocking armor
Flame Rating	Plenum (OFCP)
Fiber Category	50 µm MM (OM3)

Temperature Range	
Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	0 °C to 60 °C (32 °F to 140 °F)
Operation	0 °C to 70 °C (32 °F to 158 °F)

Cable Design	
Central Element	Yarn
Fiber Count	12
Tight Buffer Color	Blue, Orange, Green
Tensile Strength Elements / Armoring - Layer 1	Dielectric strength members
Tight Buffer Color, Layer 2	Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Tensile Strength Elements / Armoring - Layer 2	Dielectric strength members
Number of Ripcords	2
Inner Jacket Material	Flame-retardant
Tensile Strength Elements / Armoring - Layer 3	Interlocking armor
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Aqua

Mechanical Characteristics Cable	
Nominal Inner Cable Diameter	6.1 mm (0.24 in)
Nominal Outer Diameter	12.6 mm (0.5 in)
Weight	151 kg/km (105 lb/1000 ft)
Max. Tensile Strengths, Short-Term	440 N (100 lbf)
Max. Tensile Strengths, Long-Term	132 N (30 lbf)

CS-319

CORNING

MIC® Tight-Buffered, Interlocking Armored Cable, Plenum

12 F, 50 µm multimode (OM3)

CORNING

Mechanical Characteristics Cable	
Min. Bend Radius Installation	189 mm (7.4 in)
Min. Bend Radius Operation	126 mm (5 in)

Fiber Specifications

Optical Characteristics (cabled)	
Fiber Core Diameter	50 µm
Fiber Type	Multimode
Fiber Category	OM3
Fiber Code	T
Performance Option Code	80
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	2.8 dB/km / 1 dB/km
Min. Overfilled Launch (OFL) Bandwidth	1500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	2000 MHz*km / -
Serial 1 Gigabit Ethernet	1000 m / 600 m
Serial 10 Gigabit Ethernet	300 m / -
Induced Attenuation @ 7.5 mm Radius	< 30 dB up to 80 dB

* Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions

Notes:
1) 50 µm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel
2) Improved attenuation and bandwidth options available
3) Bend-insensitive single-mode fibers available on request
4) Contact a Corning Cable Systems Customer Service Representative for additional information

Ordering Information

Part Number	012T88-33180-A3
Product Description	MIC® Tight-Buffered, Interlocking Armored Cable, Plenum, 12 F, 50 µm multimode (OM3)

CS-319

CORNING

CS-320

MIC® Tight-Buffered, Interlocking Armored Cable, Plenum

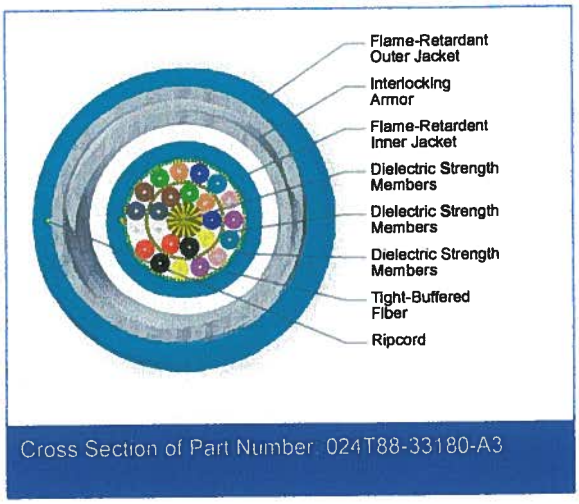
24 F, 50 µm multimode (OM3)

CORNING

Corning Cable Systems MIC® Interlocking Armored Plenum Cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use individually jacketed TBII® Buffered Fibers enabling easy, consistent stripping and facilitating termination. The fibers are grouped into jacketed subunits and surrounded by a dielectric central member.

The core is protected by a flexible, spirally wrapped, aluminum interlocking armor that offers easy, one-step installation and over seven times the crush protection of unarmored cables. With a flame-retardant outer jacket, this cable is particularly useful for heavy traffic or more challenging mechanical exposure conditions and applications requiring extra rugged cables.

Part Number 024T88-33180-A3



Cross Section of Part Number 024T88-33180-A3

Features and Benefits

Flexible, interlocking armor design
Seven times crush protection compared to unarmored cables

TBII® Buffered Fibers
Easy, consistent stripping

Flame-retardant jacket
Rugged and durable

Standards

Approval and Listings	National Electrical Code® (NEC®) OFCP, CSA FT-6, ICEA S-83-596
Flame Resistance	NFPA 262 (for plenum, riser and general building applications)

CS-320

CORNING

MIC® Tight-Buffered, Interlocking Armored Cable, Plenum

24 F, 50 µm multimode (OM3)

CORNING

Specifications

General Specifications	
Environment	Indoor
Application	General Purpose Horizontal, Vertical Riser, Plenum
Cable Type	Tight-Buffered
Product Type	Interlocking armor
Flame Rating	Plenum (OFCP)
Fiber Category	50 µm MM (OM3)

Temperature Range	
Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	0 °C to 60 °C (32 °F to 140 °F)
Operation	0 °C to 70 °C (32 °F to 158 °F)

Cable Design	
Central Element	Yarn
Fiber Count	24
Tight Buffer Color	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow
Tensile Strength Elements / Armoring - Layer 1	Dielectric strength members
Tight Buffer Color, Layer 2	Violet, Rose, Aqua, Blue*, Orange*, Green*, Brown*, Slate*, White*, Red*, Black*, Yellow*, Violet*, Rose*, Aqua*
Tensile Strength Elements / Armoring - Layer 2	Dielectric strength members
Number of Ripcords	2
Inner Jacket Material	Flame-retardant
Tensile Strength Elements / Armoring - Layer 3	Interlocking armor
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Aqua

Mechanical Characteristics Cable	
Nominal Inner Cable Diameter	7.8 mm (0.31 in)
Nominal Outer Diameter	14.3 mm (0.56 in)
Weight	197 kg/km (136 lb/1000 ft)
Max. Tensile Strengths, Short-Term	660 N (150 lbf)
Max. Tensile Strengths, Long-Term	200 N (45 lbf)

MIC® Tight-Buffered, Interlocking Armored Cable, Plenum

24 F, 50 µm multimode (OM3)

CORNING

Mechanical Characteristics Cable	
Min. Bend Radius Installation	215 mm (8.5 in)
Min. Bend Radius Operation	143 mm (5.6 in)

Fiber Specifications

Optical Characteristics (cabled)	
Fiber Core Diameter	50 µm
Fiber Type	Multimode
Fiber Category	OM3
Fiber Code	T
Performance Option Code	80
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	2.8 dB/km / 1 dB/km
Min. Overfilled Launch (OFL) Bandwidth	1500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	2000 MHz*km / -
Serial 1 Gigabit Ethernet	1000 m / 600 m
Serial 10 Gigabit Ethernet	300 m / -
Induced Attenuation @ 7.5 mm Radius	< 30 dB up to 80 dB

* Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions

Notes:
1) 50 µm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel
2) Improved attenuation and bandwidth options available
3) Bend-insensitive single-mode fibers available on request
4) Contact a Corning Cable Systems Customer Service Representative for additional information

Ordering Information

Part Number	024T88-33180-A3
Product Description	MIC® Tight-Buffered, Interlocking Armored Cable, Plenum, 24 F, 50 µm multimode (OM3)

CS-320

CORNING

ALTOS® All-Dielectric Gel-Free Cables

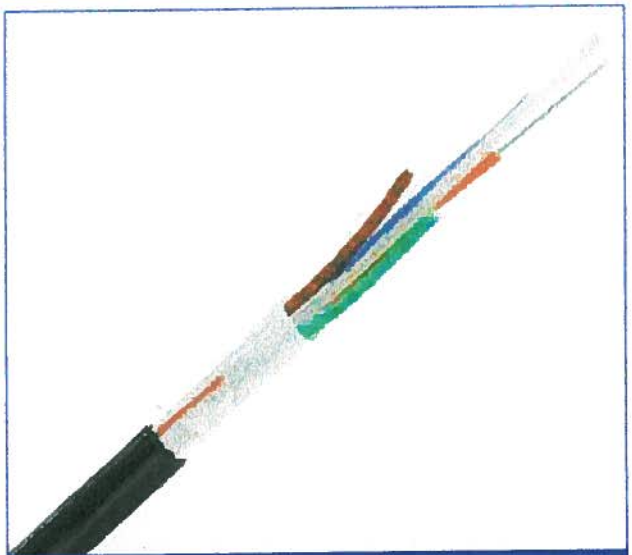
A LANscape® Solutions Product

features and benefits |

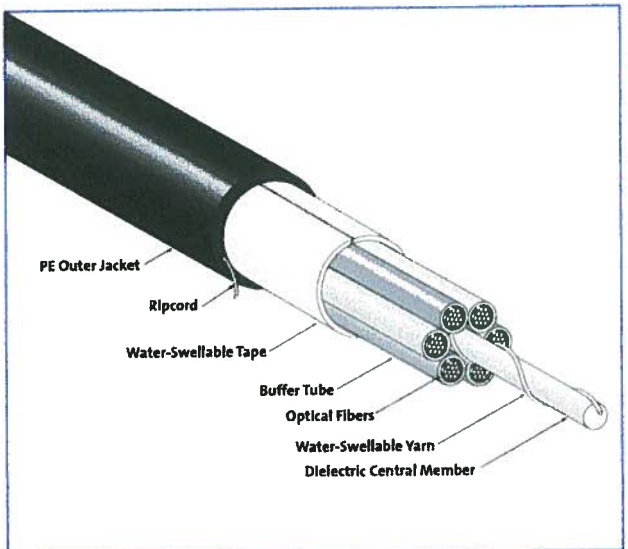
Fully waterblocked loose tube gel-free design	Simple access and no clean up
Medium-density polyethylene jacket	Rugged, durable and easy to strip
All-dielectric cable construction	Requires no grounding or bonding
Available in 62.5 µm, 50 µm, single-mode and hybrid versions	Ready for any application including Gigabit Ethernet and 10 Gigabit Ethernet

Corning Cable Systems ALTOS® All-Dielectric Gel-Free Cables are designed for outdoor and limited indoor use for campus backbones in lashed aerial and duct installations. The loose tube gel-free design is fully waterblocked using craft-friendly, water-swellable materials, which means cable access is simple and no clean up is required. The flexible craft-friendly buffer tubes are easy to route in closures and the SZ-stranded, loose tube design isolates fibers from installation and environmental rigors while allowing easy midspan access. The all-dielectric cable construction requires no bonding or grounding and these cables have a medium-density polyethylene jacket that is rugged, durable and easy to strip. A variety of fiber types are available including 62.5 µm, 50 µm, single-mode and hybrid versions, as well as fibers with Gigabit Ethernet and 10 Gigabit Ethernet performance. These cables are also available with optional extended operating temperature to -50°C (-58°F) in a variety of fiber counts.

RoHS COMPLIANT



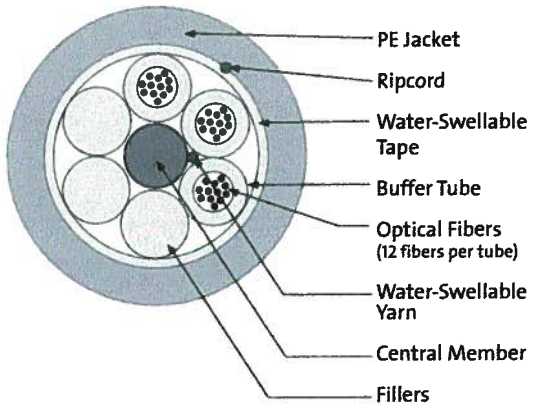
ALTOS All-Dielectric Gel-Free Cable | Photo LAN1278



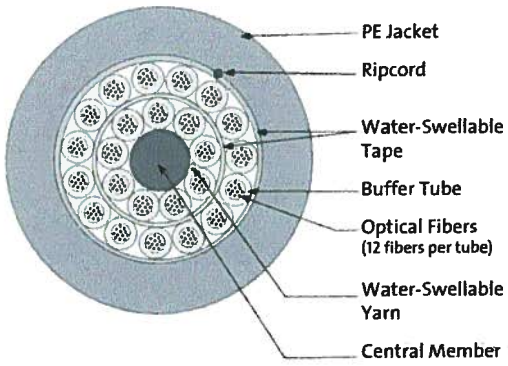
ALTOS All-Dielectric Gel-Free Cable | Drawing ZA-3405

ALTOS® All-Dielectric Gel-Free Cables

A LANscape® Solutions Product



ALTOS Single-Jacket, Non-Armored Cable, 36-Fiber | Drawing ZA-3403



ALTOS Single-Jacket, Non-Armored High-Density Cable, 288-Fiber | Drawing ZA-3404

specifications |

Maximum Tensile Loads	Short-Term: Long-Term:	2700 N (600 lbf) 890 N (200 lbf)	CS-321; CS-322
Temperatures	Storage: Installation: Operation:	-40° to +70°C (-40° to +158°F) -30° to +70°C (-22° to +158°F) -40° to +70°C (-40° to +158°F)	
Common Installations	Outdoor lashed aerial and duct; indoor when installed according to National Electrical Code® (NEC®) Article 770		
Design and Test Criteria	ANSI/ICEA S-87-640		

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	Maximum Fibers per Tube	Number of Tube Positions	Number of Active Tubes	Central Member	Nominal Cable Weight kg/km (lb/1000 ft)	Nominal Outside Diameter mm (in)	Minimum Bend Radius Loaded cm (in)	Minimum Bend Radius Installed cm (in)
2-72	12	6	1-6	Dielectric	73 (49)	10.5 (0.41)	15.8 (6.2)	10.5 (4.1)
73-96	12	8	7-8	Dielectric	98 (66)	12.2 (0.48)	18.3 (7.2)	12.2 (4.8)
97-144	12	12	9-12	Dielectric	162 (109)	15.8 (0.62)	23.7 (9.3)	15.8 (6.2)
145-216	12	18	13-18	Dielectric	147 (99)	16.0 (0.63)	24.0 (9.4)	16.0 (6.3)
217-288	12	24	19-24	Dielectric	196 (131)	18.2 (0.72)	27.3 (10.7)	18.2 (7.2)

CORNING | LANscape® Solutions

ALTOS® All-Dielectric Gel-Free Cables

A LANscape® Solutions Product

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	01
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	3.0/1.0	3.0/1.0	3.0/1.0	3.0/1.0	0.4/0.4/0.3
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.

CS-321; CS-322

CORNING | LANscape® Solutions

ALTOS® All-Dielectric Gel-Free Cables

A LANscape® Solutions Product

ordering information | Contact Customer Service at 800-743-2671 for non-standard offerings.

☐	☐	☐	☐	U	4	-	T	4	1	☐	☐	D	2	0
|1	|2	|3	|4	|5	|6		|7	|8	|9	|10	|11	|12	|13	|14

|1-3

Select fiber count.

Standard offerings:

012	048	096	216
024	060	144	288
036	072	192	

|4

Select fiber type (see Transmission Performance table).

|5 / 12

Defines cable type.

U / D = ALTOS® Gel-Free Cable

|6

Defines outer jacket.

4 = All-dielectric

|7

Defines fiber placement.

T = 12 fibers/buffer tube (standard)

|8

Defines length markings.

4 = Markings in feet (standard)

|9

Defines tensile strength (see Specifications).

|10-11

Select performance option code (see Transmission Performance table).

|13-14

Defines special requirements.

20 = No special requirements

CS-321; CS-322

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CORNING | LANscape® Solutions

CS-323

Closet Connector Housing (CCH) Panel, SC Adapters

Duplex, 6 F, 50 µm multimode (OM3)

CORNING

Corning Cable Systems Closet Connector Housing Panels (CCH-CP) are offered in a variety of fiber counts for use with LANscape® Solutions hardware products for a "one-size-fits-all" approach. Used with factory-installed or field-installable connectors, these panels provide interconnect or cross-connect capability in a housing at main cross-connects, intermediate cross-connects, telecommunication rooms or work areas. Available with a variety of industry-standard adapter types, the CCH-CP provides an efficient way to securely mate two connectors and offers multimode and single-mode applications.

Part Number: CCH-CP06-E7

Features and Benefits

Universal design approach
One-size-fits-all LANscape® Solutions housings

Broadest range of fiber count and adapter types
Solutions for all needs

Colored icon labeling
Easy connector identification

CS-323

Part Number: CCH-CP06-E7

RoHS COMPLIANT

CORNING

Closet Connector Housing (CCH) Panel, SC Adapters

Duplex, 6 F, 50 µm multimode (OM3)

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Specifications

General Specifications	
Application	Enterprise Networks, Data Center
Product Type	Panels & Modules
Fiber Category	50 µm MM (OM3)

Design - Hardware	
Fiber Count	6
Number of Adapters per Panel	6

Design Adapter	
Adapter Housing Color	Aqua
Adapter Housing Material	Composite
Adapter Type	SC duplex
Insert Material	Ceramic

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

Ordering Information

Order Number	CCH-CP06-E7
Product Description	Closet Connector Housing (CCH) Panel, SC adapters, duplex, 6 F, 50 µm multimode (OM3)

Shipping Information

Units per Delivery	1/1
Package Contents	CCH Adapter Panel with installation guide

CS-323

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CS-324

Closet Connector Housing (CCH) Panel, SC Adapters

Duplex, 12 F, 50 µm multimode (OM3/4)

CORNING

Corning Cable Systems Closet Connector Housing Panels (CCH-CP) are offered in a variety of fiber counts for use with LANscape® Solutions hardware products for a "one-size-fits-all" approach. Used with factory-installed or field-installable connectors, these panels provide interconnect or cross-connect capability in a housing at main cross-connects, intermediate cross-connects, telecommunication rooms or work areas. Available with a variety of industry-standard adapter types, the CCH-CP provides an efficient way to securely mate two connectors and offers multimode and single-mode applications.

Part Number: CCH-CP12-E7

Features and Benefits

Universal design approach
One-size-fits-all LANscape® Solutions housings

Broadest range of fiber count and adapter types
Solutions for all needs

Colored icon labeling
Easy connector identification

Specifications

General Specifications	
Application	Enterprise Networks, Data Center
Product Type	Panels & Modules
Fiber Category	50 µm MM (OM3)

Design - Hardware	
Fiber Count	12
Number of Adapters per Panel	12

RoHS COMPLIANT

CORNING

Closet Connector Housing (CCH) Panel, SC Adapters

Duplex, 12 F, 50 µm multimode (OM3/4)

CORNING

Design Adapter	
Adapter Housing Color	Aqua
Adapter Housing Material	Composite
Adapter Type	SC duplex
Insert Material	Ceramic

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

Ordering Information

Order Number	CCH-CP12-E7
Product Description	Closet Connector Housing (CCH) Panel, SC adapters, Duplex, UPC, 12 F, 50 µm multimode (OM3)

Shipping Information

Units per Delivery	1/1
Package Contents	CCH Adapter Panel with installation guide

CS-324

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