



OPTICAL FIBER

The Utility Grade INFRASTRUCTURE (UTG<sup>SM</sup>) program has been developed alongside world-class global Technology Alliance Partners<sup>SM</sup>. These UTG-rated components from Corning enable you to support the rapid evolution of technology in today's building environments.

PRODUCT OVERVIEW

Corning's UTG solutions provide a common infrastructure platform optimized for operational technology and high-performance applications. The fiber recommendations in this document complement a full UTG solution.

As part of the UTG connected architecture, the following convergence zones identify the most common environments fiber will be utilized within and around the building:

**INTER-BUILDING | INTRA-BUILDING | EXTENDED-EDGE**

CONSTRUCTION AND PERFORMANCE

**INTER-BUILDING CONVERGENCE ZONE  
(BUILDING-TO-BUILDING)**

Utilized to connect two or more buildings together, it is a recommended UTG best practice to install single-mode optical fiber for inter-building environments.

**UTG OPTICAL FIBER TIER I**

**Duct installation**

MiniXtend<sup>®</sup> cable with Binderless FastAccess<sup>®</sup> technology (all dielectric outdoor-rated loose tube microcable) with microduct system (4-position microduct minimum); best used in conjunction with pigtailed splice cassette termination methods.

**FEATURES AND BENEFITS**

- SMF-28<sup>®</sup> Ultra Optical Fiber (exceeds standards of ITU-T G.657.A1/G.652.D)
- Simplifies scalability with minimal interruption
- Peelable jacket improves installation time and safety since no blade is required (unique to Corning)

Corning Part #	Anixter Part #	Product Details
012ZM4-T4F22A20	372-COROS2-LTDMX-12	MiniXtend <sup>®</sup> cable with Binderless* FastAccess <sup>®</sup> technology, 12F (all dielectric outdoor-rated loose tube microcable)
024ZM4-T4F22A20	372-COROS2-LTDMX-24	MiniXtend <sup>®</sup> cable with Binderless* FastAccess <sup>®</sup> technology, 24F (all dielectric outdoor-rated loose tube microcable)
048ZM4-T4F22A20	372-COROS2-LTDMX-48	MiniXtend <sup>®</sup> cable with Binderless* FastAccess <sup>®</sup> technology, 48F (all dielectric outdoor-rated loose tube microcable)
072ZM4-T4F22A20	372-COROS2-LTDMX-72	MiniXtend <sup>®</sup> cable with Binderless* FastAccess <sup>®</sup> technology, 72F (all dielectric outdoor-rated loose tube microcable)
144ZM4-T4F22A20	372-COROS2-LTDMX-144	MiniXtend <sup>®</sup> cable with Binderless* FastAccess <sup>®</sup> technology, 144F (all dielectric outdoor-rated loose tube microcable)
CCH-CS12-A9-P00RE	474222	Pigtailed cassettes, 12F, SFM-28 fiber, LC connector

## UTG OPTICAL FIBER TIER II

FREEDM® loose tube, gel-free cable, riser (dielectric indoor/outdoor; 250um coated fibers); best used in conjunction with pigtailed splice cassette termination methods.

FREEDM® One tight-buffered cable, riser (dielectric indoor/outdoor; 900um coated fibers); best used in conjunction with direct termination methods (UniCam® or FuseLite® connector)

Corning Part #	Anixter Part #	Product Details
024E8F-31131-29	373-COR8.3-TBRD-24	FREEDM® One cable, 24F, riser rated, dielectric indoor/outdoor tight-buffered cable - riser - 900um coated fibers, single-mode (OS2)
048E8F-61131-29	373-COROS2-TBRD-48	FREEDM® One cable, 48F, riser rated, dielectric indoor/outdoor tight-buffered cable - riser - 900um coated fibers, single-mode (OS2)
072E8F-T3131-29	373-COROS2-TBRD-72	FREEDM® One cable, 72F, riser rated, dielectric indoor/outdoor tight-buffered cable - riser - 900um coated fibers, single-mode (OS2)
096E8F-Y3131-29	373-COROS2-TBRD-96	FREEDM® One cable, 96F, riser rated, dielectric indoor/outdoor tight-buffered cable - riser - 900um coated fibers, single-mode (OS2)
144E8F-Y3131-29	373-COROS2-TBRD-144	FREEDM® One cable, 144F, riser rated, dielectric indoor/outdoor tight-buffered cable - riser - 900um coated fibers, single-mode (OS2)
95-200-99	338908	UniCam® high-performance connector, LC, single-mode (OS2)
SOC-LCU-900-SM	603662	FuseLite® connector, LC, 900µm tight-buffered, single-mode (OS2) UPC
024EUF-T4101D20	371-COR8.3-LTD-24	FREEDM® loose tube, 24F, riser rated, dielectric indoor/outdoor gel-free loose tube cable - riser - 250um coated fibers, single-mode (OS2)
048EUF-T4101D20	373-COR8.3LTD-48	FREEDM® loose tube, 48F, riser rated, dielectric indoor/outdoor gel-free loose tube cable - riser - 250um coated fibers, single-mode (OS2)
072EUF-T4101D20	373-COR8.3LTD-72	FREEDM® loose tube, 72F, riser rated, dielectric indoor/outdoor gel-free loose tube cable - riser - 250um coated fibers, single-mode (OS2)
CCH-CS12-A9-P00RE	474222	Pigtailed cassettes, 12F, single-mode (OS-2) fiber, LC connector

## INTRA-BUILDING CONVERGENCE ZONE (FLOOR-TO-FLOOR)

Utilized to connect two or more areas or floors within a building, it is a recommended UTG best practice to install laser-optimized multimode optical fiber for intra-building environments.

### UTG OPTICAL FIBER TIER I SOLUTION:

MIC® 250 2.0 distribution cable, plenum or MIC® 250 2.0 interlocking armored cable, plenum (interlocking armor/dielectric loose tube indoor distribution cable - plenum 250um coated fibers); best used in conjunction with pigtailed splice cassette termination methods.

### FEATURES AND BENEFITS

- Better fiber protection
- Individual jackets per fiber grouping are easy to dress
- No disruption with MAC

Corning Part #	Anixter Part #	Product Details
012TD9-T1390-M2	370-COROM4-LT250-12	MIC® 250 2.0 cable, 12F, 50µm multimode (OM4)
024TD9-T1390-M2	370-COROM4-LT250-24	MIC® 250 2.0 cable, 24F, 50µm multimode (OM4)
048TD9-T1390-M2	370-COROM4-LT250-48	MIC® 250 2.0 cable, 48F, 50µm multimode (OM4)
072TD9-T1390-M2	370-COROM4-LT250-72	MIC® 250 2.0 cable, 72F, 50µm multimode (OM4)
144TD9-T1390-M2	370-COROM4-LT250-144	MIC® 250 2.0 cable, 144F, 50µm multimode (OM4)
012TD9-T1390-MA	370-COROM4-LTA250-12	MIC® 250 2.0 interlocking armored cable, 12F, 50µm multimode (OM4)
024TD9-T1390-MA	370-COROM4-LTA250-24	MIC® 250 2.0 interlocking armored cable, 24F, 50µm multimode (OM4)
048TD9-T1390-MA	370-COROM4-LTA250-48	MIC® 250 2.0 interlocking armored cable, 48F, 50µm multimode (OM4)
072TD9-T1390-MA	370-COROM4-LTA250-72	MIC® 250 2.0 interlocking armored cable, 72F, 50µm multimode (OM4)
144TD9-T1390-MA	370-COROM4-LTA250144	MIC® 250 2.0 interlocking armored cable, 144F, 50µm multimode (OM4)
CCH-CS12-E4-P00QE	669212	Pigtailed cassettes, 12F, 50µm multimode (OM4), LC connector

### UTG OPTICAL FIBER TIER II SOLUTION:

MIC® tight-buffered cable, plenum or MIC® tight-buffered interlocking armored cable, plenum (interlocking armored/dielectric, tight-buffered indoor cable - plenum - 900um coated fibers); best used in conjunction with direct termination methods (UniCam® or FuseLite® connector).

Corning Part #	Anixter Part #	Product Details
006T88-31190-29	370-COROM4-TBD-06	MIC® tight-buffered cable, 6F, 50µm multimode (OM4), plenum
012T88-33190-29	370-COROM4-TBD-12	MIC® tight-buffered cable, 12F, 50µm multimode (OM4), plenum
024T88-33190-29	370-COROM4-TBD-24	MIC® tight-buffered cable, 24F, 50µm multimode (OM4), plenum
006T88-31190-A3	370-COROM4-TBA-06	MIC® tight-buffered cable interlocking armored cable, 6F, 50µm multimode (OM4), plenum
012T88-33190-A3	370-COROM4-TBA-12	MIC® tight-buffered cable interlocking armored cable, 12F, 50µm multimode (OM4), plenum
024T88-33190-A3	370-COROM4-TBA-24	MIC® tight-buffered cable interlocking armored cable, 24F, 50µm multimode (OM4), plenum
95-050-99-X	338911	UniCam® high-performance connector, LC, 50µm multimode (OM3/OM4 compatible)
SOC-LC-900-OM4	603682	FuseLite® connector, LC, 900µm tight-buffered, 50µm multimode (OM2/3/4)

### EXTENDED-EDGE CONVERGENCE ZONE (POWERED)

Utilized to extend the distances of devices on the network beyond the standard distances of traditional cabling solutions. It is a recommended UTG best practice to install combined optical fibers for connectivity and copper conductors for power as a common cable.

### UTG OPTICAL FIBER TIER I SOLUTION:

2F/2Cu conductor for feeding multiple devices off one cable or high-power devices 4-6F/4Cu conductor - available up to 24F/6Cu conductors minimum copper gauge.

- Indoor applications - 20 AWG (always verify power load and distance requirements before selecting product)
- Indoor/outdoor applications - 16 AWG (always verify power load and distance requirements before selecting product); power rating: minimum 300 VAC

### FEATURES AND BENEFITS

- Provides data and power connectivity to distances greater than 2,000 ft.
- Allows centralized power distribution, which enables centralized power backup
- Supports PoE, PoE+ and PoE++ (rated up to 300 VAC)

### CABLE TYPES:

- ActiFi® composite cable, tight-buffered, indoor, plenum; best used in conjunction with direct termination methods (UniCam® or FuseLite® connector)
- ActiFi composite cable, loose tube, indoor/outdoor FREEDM® riser; best used in conjunction with pigtailed splice cassette termination methods

(Reel in a box options available for easier installations)

Corning Part #	Anixter Part #	Product Details
002Z48-21Z31M29	371-COROS2-TB20AWG-2	SM OS2 ActiFi™ composite cable, tight-buffered, indoor, plenum, 2F/2Cu conductor, 20 AWG
006ZT8-41Y01M20	10056072	SM OS2 , ActiFi™ composite cable, loose tube, indoor, plenum, 6F/4Cu conductor, 16 AWG
012ZT8-M1Y01M20	370-COROS2LT16AWG-12	SM OS2 ActiFi™ composite cable, loose tube, indoor, plenum, 12F/12Cu conductor, 16 AWG
002ZDF-41W01M20	373-COROS2-LT12AWG-2	SM OS2 ActiFi™ composite cable, loose tube, indoor/outdoor, FREEDM® riser, 2F/4Cu conductor, 12 AWG
006ZTF-61Y01M20	373-COROS2-R16AWG-6	SM OS2 ActiFi™ composite cable, loose tube, indoor/outdoor, FREEDM® riser, 6F/6Cu conductor, 16 AWG
006ZTF-41Y01M20	373-COROS2-R16AWG-06	SM OS2 ActiFi™ composite cable, loose tube, indoor/outdoor, FREEDM® riser, 6F/4Cu conductor, 16 AWG
002Z48-21Z31MB2	370-COROS2-TB20AWG-2	SM OS2 Reel in a Box, AWG ActiFi™ composite cable, tight-buffered, indoor, plenum, 2F/2Cu conductor, 20AWG, 1,000 ft.

**FOR MORE DETAILS, VISIT [ANIXTER.COM/UTG](https://www.anixter.com/utg)**

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