



FTTx SOLUTION ORDERING GUIDE

Chapter Three: For the Central Office and Data Center

OFS FTTx SOLUTIONS

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CHAPTER THREE:
**For the Central Office
and Data Center**

TABLE OF CONTENTS

- 3 TABLE OF CONTENTS**
- 4 INTRODUCTION**
 - Challenges/Pain Points/Solutions
- 6 SCENARIOS**
 - Central Office/Data Center/Hyperscale Data Center
- 6 CENTRAL OFFICE**
 - Fusion Splicing
 - Pre-terminated Solution
- 8 DATA CENTER**
 - Pre-terminated LC Solution
 - Pre-terminated MPO Solution
- 10 HYPERSCALE DATA CENTER**
 - Mass Fusion Splicing
 - Pre-terminated Solution
- 12 PRODUCT INFORMATION**
 - Pre-terminated Products/Cables/Shelves and Hardware
- 12 PRE-TERMINATED PRODUCTS**
 - Jumper Family - LC, SC, FC & ST2 Jumpers
 - Preconnectorized Cables
 - MPO Connector Family - Multifiber Push-On
- 18 CABLES**
 - AccuRiser™ Indoor/Outdoor Ribbon Cable
 - AccuRiser Rollable Ribbon Cable
 - AccuFlex®+ Ribbon Cable
 - AccuFlex Rollable Ribbon Cable
 - M-Pack® Backbone Cable
 - AccuPack® Distribution Cables
 - M-Pack Interconnect Cordage
- 32 SHELVES AND HARDWARE**
 - Mini-OCEF
 - OCEF 22 and 42
 - LGX® Splice Shelves - LSS1U Series
 - Sliding Plastic Shelf 1U P-LIU
 - LGX Fiber Optic Shelves - LightGuide Cross-Connect
 - LGX Fiber Management Termination Shelves

Central Office and Data Center Pain Points and Solutions

PAIN POINTS AND SOLUTIONS

Network transformation and changing subscriber traffic patterns have created new challenges to how service providers offer and deliver services. This, combined with changes in user behavior as demand shifts towards high bandwidth data and video services, requires a change in Central Office architectures to achieve greater efficiency and agility.

Transforming the Central Office requires higher-density systems to meet the needs of multi-fiber platforms and other equipment essential to supporting a new architecture and topology. Service providers upgrading these networks will find that most protocols require higher-speed, single-mode networks. However, it is essential to have a variety of optimized deployment options that will help to speed installation while controlling expense.

BENEFITS

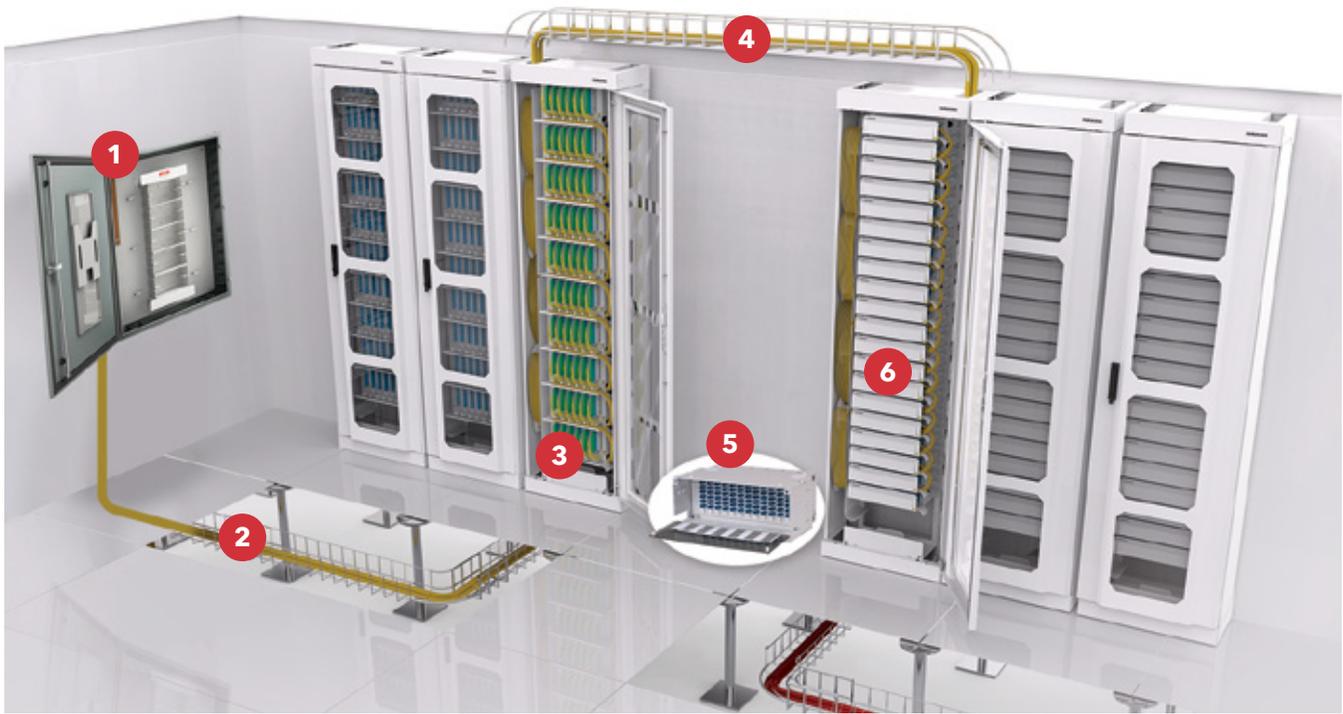
OFS Central Office Solutions can help providers successfully transform their networks to address increases in traffic volumes and performance demands. The solutions in this guide include a broad portfolio of innovative, compact and flexible products to meet the growing needs of Central offices while also helping to save on installation time, space and expense.

Central Office and Data Center Pain Points and Solutions

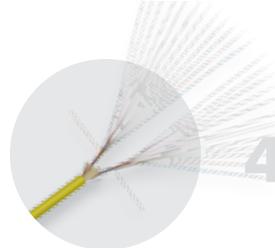
- **Time to Revenue:** Fast and easy to install pre-terminated solutions are designed to speed installation, augment performance and reduce labor costs. Mass fusion splicing of ribbon cables and fanouts is a good way to save installation and activation time.
- **Limited Infrastructure Space:** Using compact cable designs saves space in the communication infrastructure and prepares future-proof networks (Examples: AccuRiser™ and M-Pack® Backbone families)
- **Fiber Bends in Central Office Facilities:** AllWave® FLEX+ Optical Fiber (G.657.A2) and AllWave FLEX Max Optical Fiber (G.657.B3) are designed to allow the use of short boot in pre-terminated jumpers
- **Multiple Box for Splicing and Termination:** The combination shelf platform is designed to be adequate for medium density networks with both splicing and termination modules
- **High Density Cross-Connect Products:** 1.2 mm jumpers with uniboot connector means “space savings” in high density frames and cable managers. It permits a move to high density platforms with enough management, installation and maintenance spaces

Application	Location	Product Description	Solution
Interconnect	Between Frames	MP: M-Pack Interconnect Cord	Fanouts
Cord	In Bays	MX: M-Pack Cross Connect Cord	Jumpers
Indoor Low Fiber Count Backbone	In Cable Ladder	MB: M-Pack Backbone Cable	Pre-terminated
Indoor Medium Fiber Count Backbone	In Cable Ladder	AccuFlex®+ Ribbon Cable	Pre-terminated
Indoor/Outdoor High Fiber Count Backbone	In Cable Ladder or Ducts	AccuRiser™ Indoor/Outdoor Ribbon Cable	Pre-terminated or mass fusion splicing

Scenarios Central Office



1 OCEF-22 (Optical Cable Entrance Facility)
(Page 29)



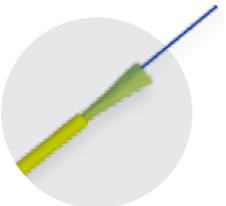
4 M-Pack® Backbone Cable
(Page 22)



2 AccuRiser™ 288-864F
Indoor/Outdoor Ribbon Cable
(Page 18)



5 Termination Shelf
(Page 37)

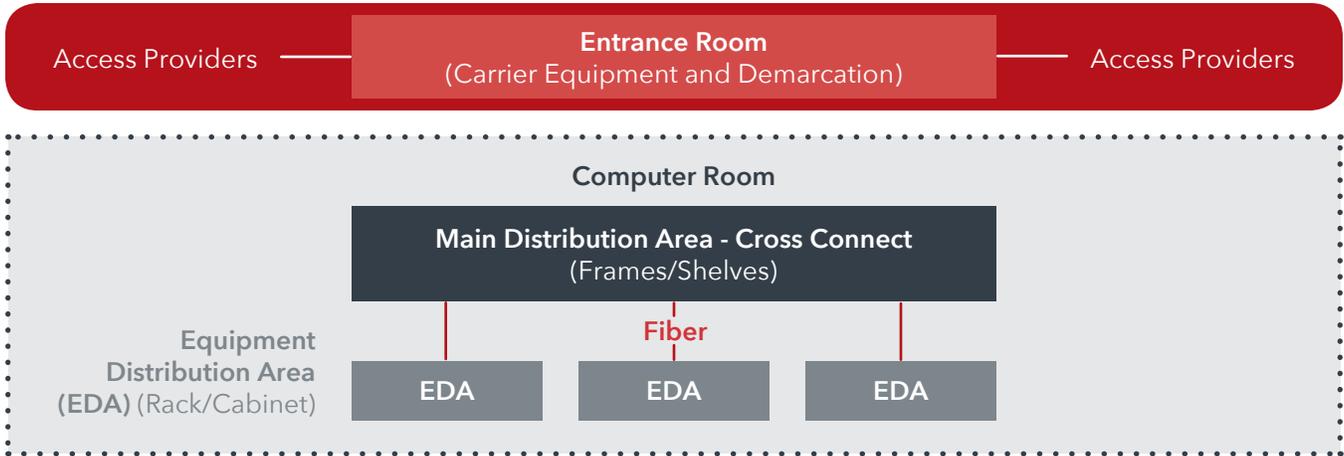


3 M-Pack® Interconnect
1.6 mm Cordage
(Page 26)

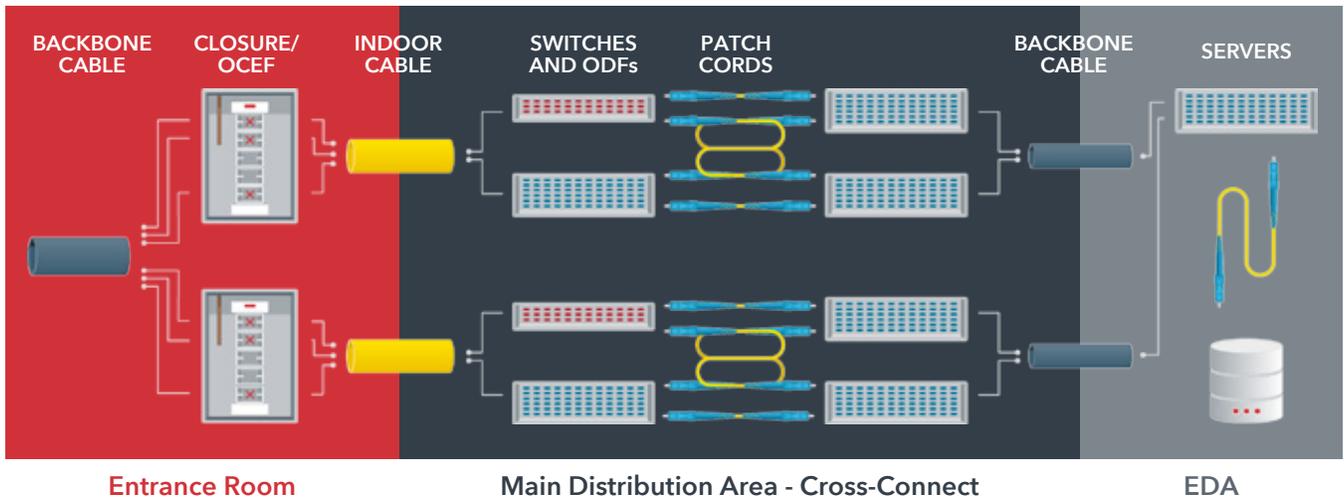


6 1-RU Shelf
(Page 33)

ARCHITECTURE



TOPOLOGY

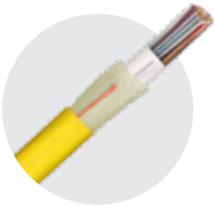
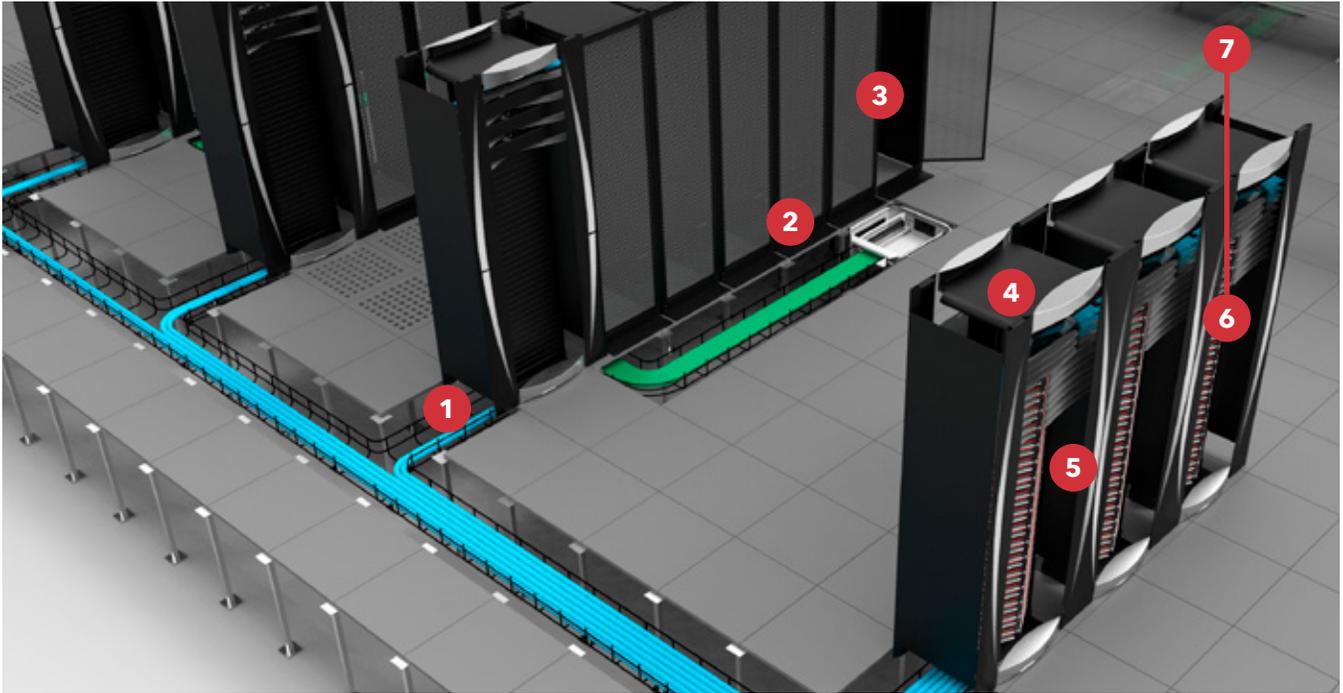


PRODUCT ASSOCIATION

	Entrance	Hardware	Pre-terminated	Cable	Jumpers
Fusion Splicing	Closure/OCEF 22	Combination Shelf		M-Pack® Backbone M-Pack Interconnect AccuPack®	1.6 mm Simplex/ Duplex
Pre-terminated	Closure/OCEF 22	Termination Shelf	AccuFlex® Pre-terminated M-Pack Backbone Assemblies LGMC		1.6 mm Simplex/ Duplex

Scenarios

Data Center



1 AccuFlex®+ Rollable Ribbon Cable
(Page 20)



5 Termination Shelf
(Page 37)



2 LG1C Pre-Connectorized Cable
(Page 14)



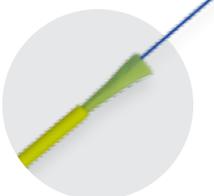
6 AccuRiser™ 288-864F Rollable Ribbon Cable
(Page 18)



3 M-Pack® Backbone Assemblies
(Page 22)

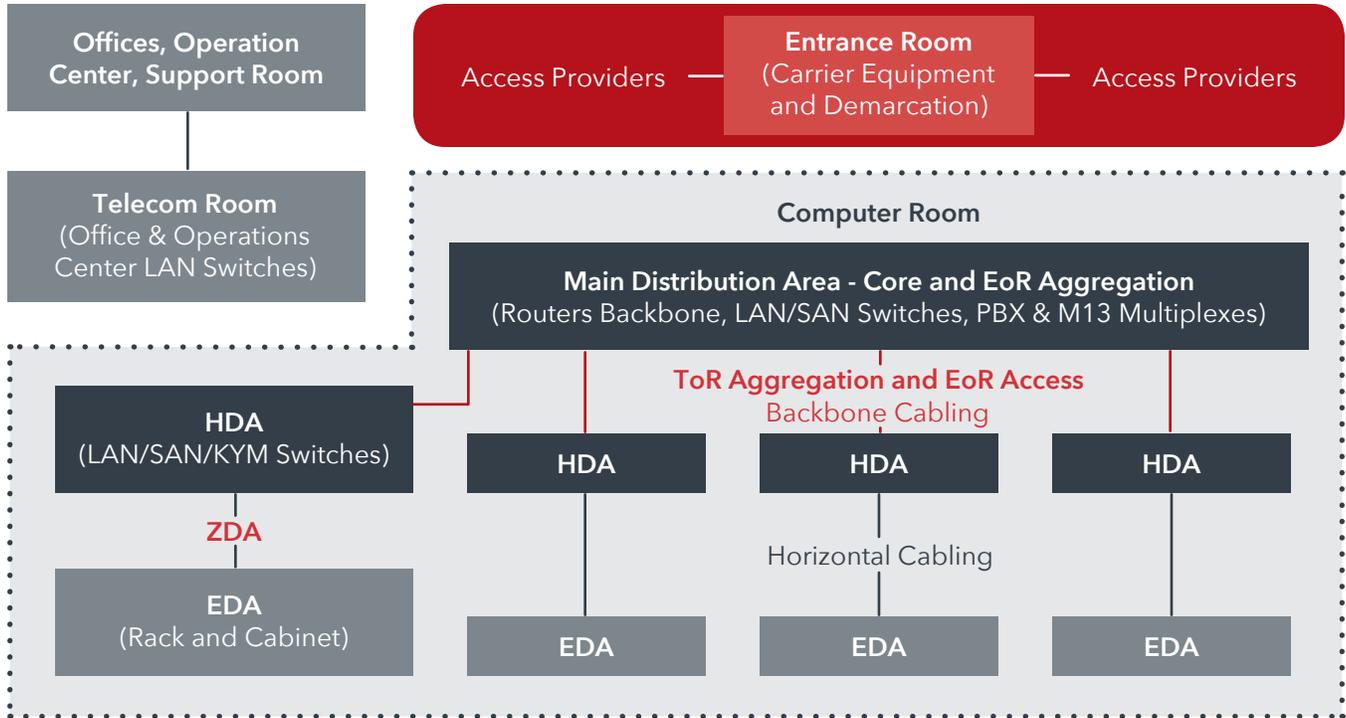


7 OCEF-42
(Page 29)

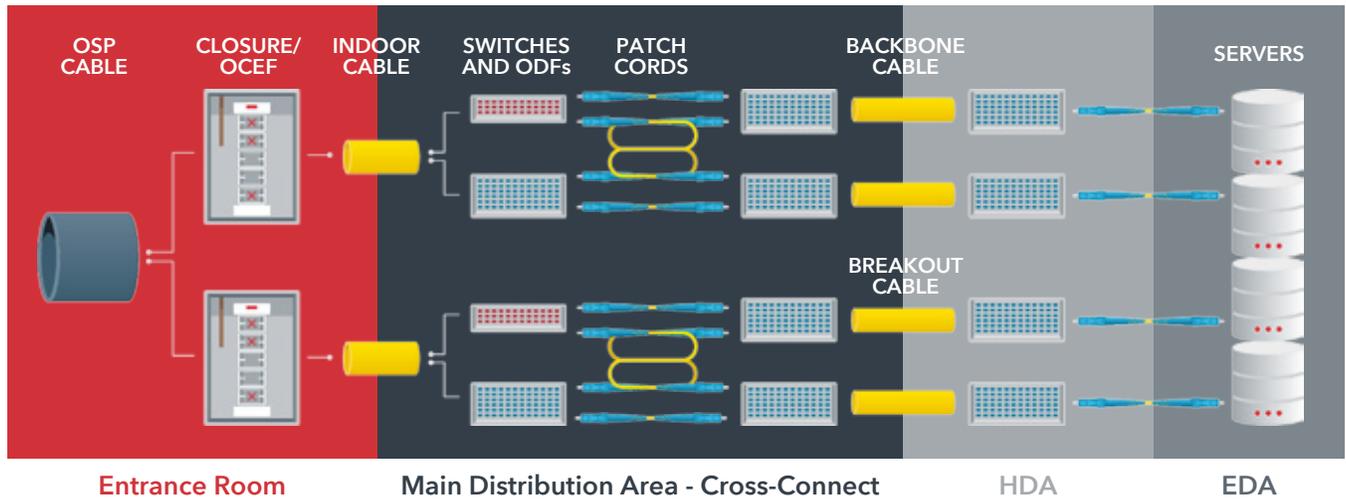


4 M-Pack® Interconnect 1.2 mm Cordage
(Page 26)

ARCHITECTURE



TOPOLOGY

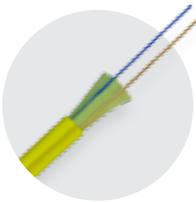


PRODUCT ASSOCIATION

	Entrance	Hardware	Pre-terminated	Cable	Jumpers
Fusion Splicing	OCEF	Combination Shelf		AccuRiser™ Rollable Ribbon Cable M-Pack® Backbone Cable	1.2 mm Simplex/ Duplex
Pre-terminated	OCEF	Termination Shelf	AccuFlex® 48/72F Pre-terminated M-Pack Backbone Cable LG1C Assemblies		1.2 mm Simplex/ Duplex

Scenarios

Hyperscale Data Center



1

M-Pack® Interconnect
1.2 mm Duplex Cordage
(Page 26)



4

Termination Shelf
(Page 37)



2

AccuFlex®+ Rollable Ribbon
Cable
(Page 20)



5

AccuRiser™ 288-864F
Rollable Ribbon Cable
(Page 18)



3

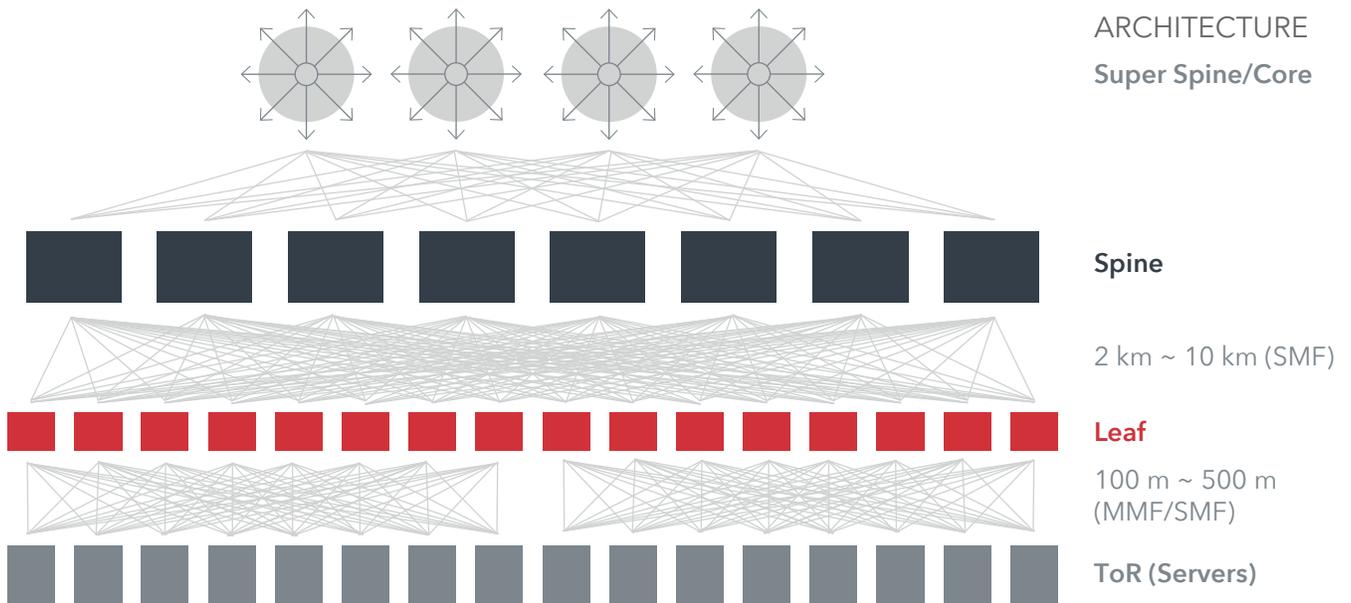
M-Pack® Backbone
Assemblies
(Page 22)



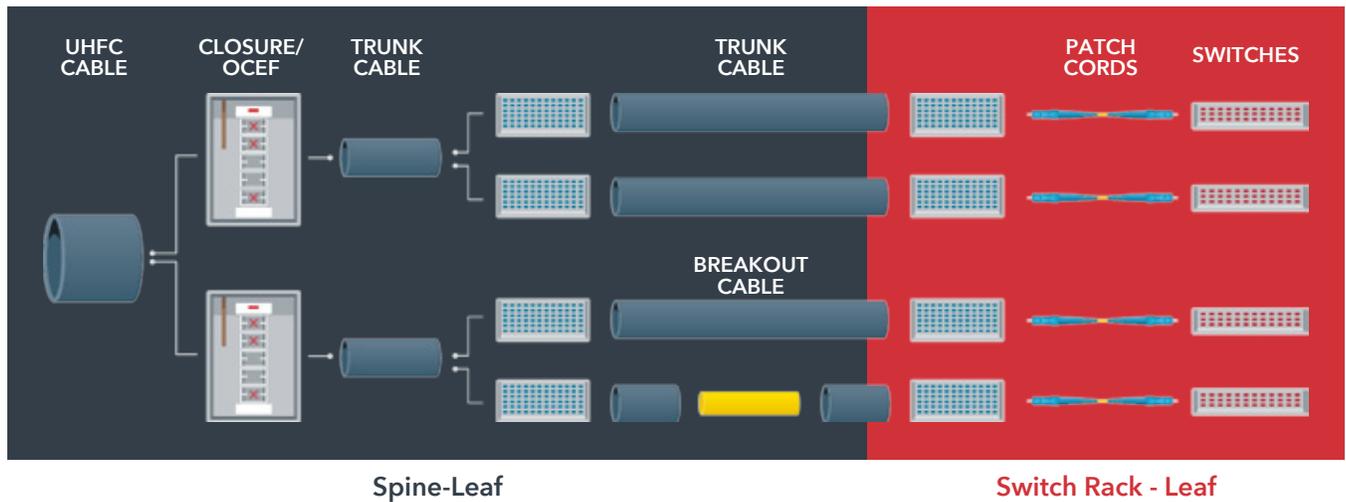
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OCEF-42
(Page 29)

Hyperscale Data Center Scenario *Continued*



TOPOLOGY



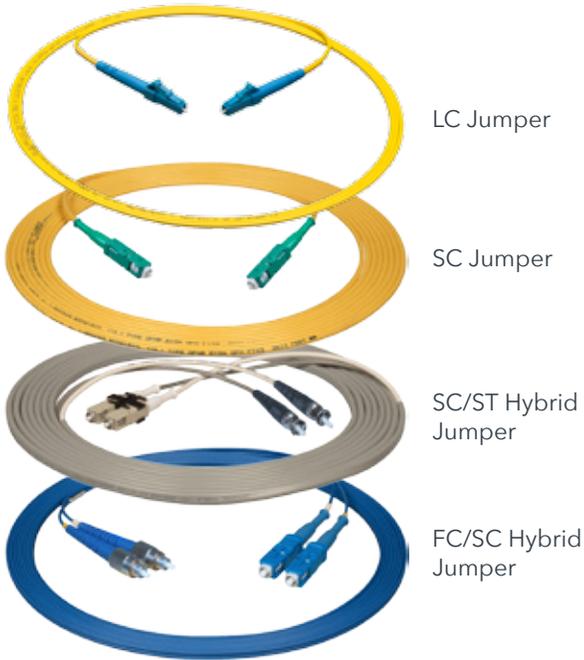
PRODUCT ASSOCIATION

	Entrance	Hardware	Pre-terminated	Cable	Jumpers
Fusion Splicing	OCEF HD	Fusion Shelves	144/288F AccuRiser Cable 48/72F AccuFlex Breakout LG1C M-Pack® Backbone	AccuRiser™ Rollable Ribbon Cable AccuFlex® Rollable Ribbon Cable	2.0/1.2 mm Uniboot
Pre-terminated	OCEF HD	Termination Shelf			2.0/1.2 mm Uniboot

PRE-TERMINATED PRODUCTS

OFS Jumper Family - LC, SC, FC & ST2 Jumpers

Variety of Jumpers for Any Application



PRODUCT DESCRIPTION

Patch Cords and Jumpers are used to provide optical connection for fiber optic electronics. The use of the patch cord typically provides a quick and easy method for routing fiber in data centers, head-ends, cellular hubs and central offices. The patch cord can be used in an interconnect or cross-connect path connecting the incoming fibers to the electronic equipment and providing patching within the fiber paths. Patch Cords and Jumpers include simplex, duplex and quadplex (quad assemblies). Larger fiber counts are available in multifiber type assemblies as connectorized cables and multi-fiber connector assemblies.

LC JUMPER

OFS offers LC Simplex and Duplex jumpers, pigtails, and hybrid assemblies. The LC UniBody® Connector used on LC patch cords features a trigger mechanism that allows the connector to be easily engaged and disengaged. The trigger is also designed to prevent the connector from snagging when patch cords or jumpers are routed. There are a number of boot options with the LC connector for tight bends and limited mounting space with either a 90 degree clip or short boot and 40 degree boot options. LC patch cords and jumpers are available with 900 µm tight-buffered optical fiber or 1.6, 2.0, 3.0 and 4.8 mm diameter cordage. The 1.2, 1.6 mm cordage is among the smallest in the industry and are designed to provide greater jumper density in a fully loaded rack and helps prevent congestion in overhead racks.

FEATURES AND BENEFITS

- 100% optically factory tested
- Wide variety of connector options and cable options available
- Available in a wide variety of fiber types
- Ultra Polish (UPC) and Angled Polish (APC) available for Single-Mode Connectors
- The LC, SC, ST2 and FC products offer pull proof connections and maintain optical contact under load

OFS Jumper Family - LC, SC, FC & ST2 Jumpers *Continued*

ORDERING INFORMATION

EXAMPLES:

JP3WY001LCULCU003M - Jumper Plenum 3.0 mm AllWave® *FLEX* Optical Fiber Yellow 1 Fiber (Simplex) LCU LCU 3 M
 JR2WY002SCSSCA003M - Jumper Riser 2.0 mm AllWave *FLEX* Optical Fiber Yellow 2 Fibers (Zip) SCS SCA 3 M
 JV9WY001FCUUNC003M - Jumper Low Smoke PVC 900 µm AllWave *FLEX* Yellow 1 Fiber FCU UNC (Pigtail) 3 M

SMART Code Syntax below has spaces between field sets for visibility.
 Actual SMART Code should not include any spacing.

aaa b c ddd eee fff nnn g

aaa = Cable Design

JH1 = LSZH 1.6 mm
 JH2 = LSZH 2.0 mm
 JH3 = LSZH 3.0 mm
 JH4 = LSZH 4.8 mm (Simplex Only)
 JH5 = LSZH 4.8 mm I/O (Simplex Only)
 JHD = LSZH DFX 2.4 mm (Duplex Only)
 JDN = Dual Rated 3.0 mm I/O (Simplex Only)
 JD1 = Dual Rated 1.6 mm
 JD2 = Dual Rated 2.0 mm
 JD5 = Dual Rated I/O 4.8 mm
 JP1 = Plenum 1.6 mm
 JP2 = Plenum 2.0 mm
 JP3 = Plenum 3.0 mm
 JP4 = Plenum 4.8 mm (Simplex Only)
 JPD = Plenum DFX 2.4 mm (Duplex Only)
 JPO = Plenum Over-Jacket (Duplex Only)
 JR1 = Riser 1.6 mm
 JR2 = Riser 2.0 mm
 JR3 = Riser 3.0 mm
 JR4 = Riser 4.8 mm (Simplex Only)
 JR5 = Riser 4.8 mm I/O (Simplex Only)
 JR8 = Riser 4.8 mm I/O Toneable (Simplex Only)
 JRA = Riser 1.2 mm
 JRD = Riser DFX 2.4 mm (Duplex Only)
 JRO = Riser Over-Jacket (Duplex Only)
 JRV = 3.0 mm Ruggedized I/O (Simplex Only)
 JU6 = UV Buffer 600 µm (Simplex Only)
 JU9 = UV Buffer 900 µm (Simplex Only)
 JV6 = Low Smoke PVC 600 µm (Simplex Only)
 JV9 = Low Smoke PVC 900 µm (Simplex Only)

b = Fiber Type

D = EZ-Bend® (White Jacket Default)
 H = LaserWave 150 G+ (Aqua Jacket Default)
 K = 50 µm Bend-Insensitive (Orange Jacket Default)
 L = 62.5 µm Multimode (Orange Jacket Default)
 M = 50 µm Multimode (Orange Jacket Default)
 W = AllWave *FLEX* (Yellow Jacket Default)
 3 = LaserWave 300 Bend-Insensitive
 5 = Laser Wave 500 Bend-Insensitive
 7 = AllWave *FLEX* Enhanced (A2 Yellow Jacket)

c = Jacket Color

B = Blue (Blue Tiger)
 O = Orange (50/62.5 µm Multimode Fiber)
 S = Slate (Optional Color 62.5 µm)
 W = White
 K = Black (Indoor/Outdoor 4.8 mm Cordage Fiber)
 Y = Yellow (AllWave *FLEX* Fiber)
 A = Aqua (LaserWave 150 G+, 300, 550 Fiber)

ddd = Fiber Count

001 = Simplex
 002 = Duplex Zip
 004 = Quad Round Cordage (1.6 mm Sub Units Riser Only)

eeeff = Connector Ends "A" & "B"

LCA = LC Angle Polish (Single Mode Only)
 LA4 = LC Angle Polish 40° Boot (SM Only)
 LAS = LC Angled Polish Short Boot
 LC4 = LC Ultra Polish 40° Boot
 LCU = LC Ultra Polish
 LCS = LC Ultra Polish Short Boot
 LCF = LC Ultra Polish Soft Boot (900 µm Only)
 LCD = LC Ultra Polish SM Duplex w/ Clip
 SCA = SC Angle Polish (SM Only)
 SAS = SC Angle Polish Short Boot
 SCU = SC Ultra Polish
 SCS = SC Ultra Polish Short Boot
 ST2 = ST2 Ultra Polish (PLENUM Cordage)
 FCA = FC Angle Polish (SM Only)
 FCU = FC Ultra Polish
 UNC = Unconnectorized (Stub, Pigtail - End "B" Only)

g = Unit of Measure

M = Meters (Min. 1 m)
 C = Centimeters (Min. 15 cm Simplex/ 45 cm Duplex)
 F = Feet (Min. 1 ft)
 I = Inches (Min. 6 in. Simplex/ 18 in. Duplex)

nnn = Length

oo1 - 999

NOTE: Additional colors available upon request (ie. Violet and Green)

Preconnectorized Cable

Reduce Installation Time with Factory-Tuned Performance



FEATURES

- Wide range of fibers for the performance you need
- Wide selection of cable types
- Cable customizations
- Full line of connectors - LC, SC, ST, FC, or unconnectorized (UU)
- Pre-installed ribbon break-out protection

BENEFITS

- Saves money and time
- Easy fiber identification
- Preconnectorized ends ensure factory loss specifications
- Bend radius protection achieved with flexible, yet rugged tubing
- ISO 9001 and ISO 14001 certified manufacture

PRODUCT DESCRIPTION

OFS preconnectorized cables have more than four fibers and are available in building cable or outside plant cable. The cables are terminated with optical connectors on one or both ends depending on customer requirements.

OFS preconnectorized cables allow for customization (ie. cable type, cable lengths, and other connector types). Preconnectorized cables are available with the following assortment of optical connectors including:

- LC connectors
- SC connectors
- ST connectors
- FC connectors

OFS cables with preconnectorized ends are designed to ensure factory loss specifications, quicker installations, and lower total installation cost.

Choose from our MiniCord® Breakout, ACCUMAX® and AccuRibbon Cables. Preconnectorized cables can also be order in custom break-out lengths (from the cable sheath to the tip of the connector) for many different cable options.

Upon request, OFS can preconnectorize outside plant cables for specific customer feeder or loop applications.

NOTE: OFS recommends leaving one end of the cable unconnectorized and then terminating or fusion splicing it after cable routing. This should reduce connector damage caused by snags during installation.

ORDERING INFORMATION

EXAMPLES:

LPC1-W-LCUSCU-BR09-072-050F - LightGuide Pre-Connectorized Cable Standard AllWave *FLEX* LCUSCU Building Riser 900 µm 72 count 50 feet

LPC2-W-LCUSCU-BR09-072-100F-120UH/39 - LightGuide Pre-Connectorized Cable *Non-Standard AllWave *FLEX* LCUSCU Building Riser 900 µm 72 count 100 feet

* Breakout: LCU = 120 inches 2.0 mm Up-Jacket Furcation/ SCU = 39 inches 900 µm

LPCa - b - cccddd - eee - fff - nnnng - hhii/hhii

a = Design Type

- 1 = Standard Design 39" Breakout
- 2 = Non-Standard

b = Fiber Type

- A = AllWave® ZWP (OSP Cable Only)
- 5 = LaserWave® 550 Bend-Insensitive (Aqua Jacket Default)
- L = 62.5 µm Multimode (Orange Jacket Default)
- M = 50 µm Multimode (Orange Jacket Default)
- W = AllWave *FLEX* (Yellow Jacket Default)
- 3 = LaserWave 300 Bend-Insensitive (Aqua Jacket Default)

ccc = Connector Type (inside connector)

ddd = Connector Type (outside connector)

- LCA = LC Angle Polish (Single Mode Only)
- LA4 = LC Angle Polish 40° Boot (SM Only)
- LC4 = LC Ultra Polish 40° Boot
- LCU = LC Ultra Polish
- LCS = LC Ultra Polish Short Boot (1.6 & 2.0 Only)
- LCF = LC Ultra Polish Soft Boot (900 µm Only)
- LCD = LC Ultra Polish Single Mode Duplex w/ Clip
- SCA = SC Angle Polish (SM Only)
- SAS = SC Angle Polish Short Boot (1.6 & 2.0 Only)
- SCU = SC Ultra Polish
- SCS = SC Ultra Polish Short Boot (1.6 & 2.0 Only)
- SCF = SC Ultra Polish Short Boot (900 µm Only)
- STP = STII+ Ultra Polish Pool Proof (Riser & LSZH)
- ST2 = STII Ultra Polish (Use with Plenum Cordage)
- FCA = FC Angle Polish (SM Only)
- FCU = FC Ultra Polish
- UNC = Unconnectorized (Stub, Pigtail) - Outside Connector Only

eeee = Cable Type Continued

OSP

- 12YT = Fortex™ DT Single Jacket, OSP LT (Dry)
- H2YT = Fortex DT Light Armor, OSP LT (Dry)
- N2YT = Fortex DT, Armored, OSP LT (Dry)
- 833X = AccuRibbon® DC, OSP Dielectric (Dry)
- 8G3X = AccuRibbon DC, OSP Dielectric (Gel)

Outdoor/Indoor

- 12RT = Option 1, O/I LT, Riser (Dry)
- N2RT = Option 1, O/I LT, Riser, Armored (Dry)
- 13PT = PlenumXCel™ O/I LT, Plenum (Dry)
- 83XX = AccuRibbon DC TL, O/I, LSZH, Dielectric, 12F (Dry)
- 84XX = AccuRibbon DC TL, O/I, LSZH, Dielectric 24F (Dry)

Indoor/Outdoor

- I09R = AccuDry® I/O 0.9 mm, Riser, 0.9 mm (Dry)
- I09H = AccuDry I/O 0.9 mm, LSZH, 0.9 mm (Dry)

Indoor

- BR09 = ACCUMAX® Riser
- BH09 = ACCUMAX LSZH
- BP09 = ACCUMAX Plenum
- RRCR = AccuFlex™ PLUS Ribbon Ribber
- RRCH = AccuFlex PLUS Ribbon LSZH
- RRCP = AccuFlex PLUS Ribbon Plenum

fff = Fiber Count

002 - 288

g = Unit of Measure

- F = Feet
- M = Meters
- Minimum Length*
- Single End Pigtail: 10 feet
- Double Ended Assembly: 20 feet

hhii/ Non-Standard Breakout

hhii =

- hh = Customization of breakout based on customer specifications. Contact your sales representative for additional information.
- ii = Breakout Length in Inches

MPO Connector Family - Multifiber Push-On

A Complete High-Density Fiber Optic Connectivity Solution



FEATURES AND BENEFITS

Ultra-small and durable fibers, ideal for a variety of installation environments:

- Reliable high-density, high-performance interconnections
 - Increases fiber density on fiber shelves and faceplates
 - Improves and simplifies fiber routing
 - Decreases fiber management space
- Telcordia GR-1435-CORE tested
- ANSI/TIA/EIA-604-5 FOCIS 5 compliant
- Quick and easy connection with push-on/pull-off latching mechanism
- Low insertion loss and reflectance
- High-speed application support
- Solution-based engineering support to meet all fiber routing requirements
 - Assistance for unique designs and configurations
- OEM solutions for special applications

PRODUCT DESCRIPTION

OFS offers an extensive line of high-density MPO multifiber connector products, including jumpers, fanouts, pigtailed and connectorized cable. When you need a high-performance fiber optic connectivity solution, look to the OFS family of products featuring the MPO connector.

Low loss single-mode MPO connectors help deliver the performance and reliability needed in today's demanding high-speed broadband and data networks. Multimode LaserWave® MPO jumpers and fanouts are designed to support high-speed, short-reach, data center applications.

The MPO Connector, with its familiar push-on/pull-off insertion release mechanism, is designed to provide consistent and repeatable interconnections with up to 48 fibers in a 0.7" x 0.4" minimum footprint.

The MPO product family is available with 8, 12, 24 and 48 fiber connectors featuring bare ribbon, tight-buffered ribbon and cordage, and includes standard adapters. Alternative fiber counts are available upon request.

APPLICATIONS

Reliable high-density interconnections for:

- Equipment interconnections
- Telecommunications networks
- Broadband/CATV networks
- Data communications networks, including high-bandwidth equipment
- Interconnections for parallel optical transmitters and receivers

MPO Connector Family - Multifiber Push-On *Continued*

ORDERING INFORMATION

EXAMPLES: It is critical to note what equipment the assembly is mating with in order to select the correct connector. Male connectors have pins and cannot connect to another male connector. An angled polish connector should not be mated to a flat polish connector.

MPO12NA-21-RCM0X-2.5M - MPO, 12 fiber, No pins (female), polish: APC, # of connectors: 2, standard patchcord (1), bare ribbon cordage, fiber: MM -50/125 (OM2), overall length: 2.5 meters

MPO8PA/MPO8NU-2X-RCWBK-12F - Conn A: MPO, 8 fiber, Pins (male), polish: APC, Conn B: MPO, 8 fiber, No pins (female), polish: PC, # of connectors: 2, hybrid patchcord (X), ribbon cordage PVC tight buffered, fiber: SM - AllWave® FLEX+ (G.657.A2), overall length: 12 feet

MTP12PA/LCU-21-MBBPPY-0.5/5M - Conn A: MTP, 12 fiber, Pins (male), polish: APC, Conn B: LC, polish: UPC, 2.0 mm furcation, M-Pack® Plenum Backbone Cable, fiber: SM - Blue Tiger, breakout length: 0.5 meter overall length (tip-to-tip): 5 meters

aaa bb c d / aaa bb c d - e f - gg h i j - lll / nnn u XC PE

aaa = Connectors

MPO, MT, MTP, MPX, LC, SC, ST, FC, UNC

bb = Fiber Count

8, 12, 24, 48

c = Gender

P = Pins (male)
N = No Pins (female)

d = Polish

U = Flat Polish
A = Angle Polish (8°)

e = Design

1 = Multifiber pigtail
2 = Multifiber jumper or 2.0 mm fanout
9 = 0.9 mm fanout

f = Assembly Type

1 = Pigtail, jumper with same ends (ex. MPO12PU-MPO12NU), hybrid (multifiber to fanout, ex. MPO8NA-LCU)
L = Low Loss 0.35 dB
S = Super Low Loss 0.15 dB
X = Different multi-fiber connectors (ex. MT-12PU-MPONU)

gg = Cordage*

RC = Flat Ribbon Cable or Bare Ribbon
MP = M-Pack® Interconnect Cordage
MB = M-Pack Backbone Cable
AT = AccuPack® TC (Tough Coat)
AI = AccuPack Indoor/Outdoor Cable

h = Fiber Count

7 = AllWave® FLEX+ Enhanced (G.657.A2)
L = Multimode - 62.5/125 (OM1)
M = Multimode - 50/125 (OM2)
3 = LaserWave 300 Bend-Insensitive (OM3)
5 = LaserWave 550 Bend-Insensitive (OM4)

i = Jacket Type

O = Bare Ribbon
R = Riser
P = Plenum
H = LSZH IEC 60332-3C

j = Jacket Color

X = Bare Ribbon (no color)
O = Orange (50/62.5 μm Multimode Fiber)
S = Slate (Optional color 62.4 Multimode)
W = White (EZ-Bend® Optical Fiber)
K = Black (Indoor/Outdoor Cordage Fiber)
Y = Yellow (AllWave FLEX+ Optical Fiber)
A = Aqua (LaserWave 150 G+, 300, 550 Fiber)

lll = Breakout Length

If a hybrid (multifiber to single connector - LC, SC, etc.), lll is the breakout length. Standard offering is 0.5 m, Max: 3 m
If pigtail or multifiber-to-multifiber jumper, omit

nnn = Length

001 - 999

u = Unit of Measure

M = Meters (min. 1 m)
C = Centimeters (min. 15 cm simplex/45 cm duplex)
F = Feet (min. 1 ft)
I = Inches (min. 6 in. simplex/ 18 in. duplex)

XC = Cross Fiber Pattern (optional)

PE = Pulling Eye (optional)

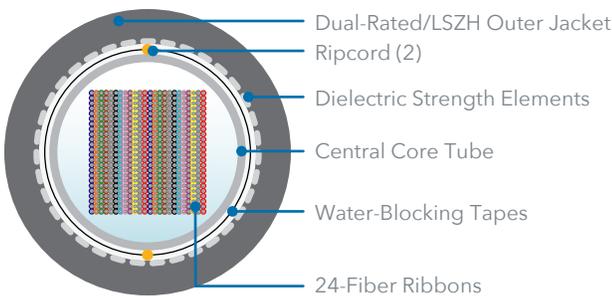
* Available jacket types are based on the chosen cordage (or vice versa). See tables for determination of cordage/jacket types.

AccuRiser™ Indoor/Outdoor Ribbon Cable

High-Density Cable Improves Installation Speed for Backbone Data Center and Central Office Deployments



AccuRiser Indoor/Outdoor Ribbon Cable



WHY THE ACCURISER I/O CABLE?

Every element of the AccuRiser Cable is designed to help facilitate speed of installation during a new data center or central office deployment. The 24-fiber ribbons allow splice-in-place operations that help to get a facility up and running rapidly. This strong yet flexible cable helps to ease cable installation over ladder racking and through tight bends during routing as well as smoothing and speeding installation times. A broad range of AccuRiser Cable fiber counts helps engineering to select the right cable for the job.

The AccuRiser Indoor/Outdoor Cable is an excellent choice for building-to-building cable connections. This cable also should remove the need for intermediate splice points for transitions from the outdoor environment to indoor use. Reducing the number of splices can result in improved system loss and lower termination points within a network.

PRODUCT DESCRIPTION

The AccuRiser Indoor/Outdoor Ribbon Cable was specifically designed to offer high-fiber density and speed of deployment in the backbone of Data Center and Central Office networks. This cable features a highly crush-resistant, central core design that remains flexible to allow smooth installation during routing. A central core tube and water-blocking tape surrounds the ribbon fiber stacks for excellent water-penetration resistance. Dielectric strength members provide added tensile and crush resistance, while a low smoke/zero halogen (LSZH) outer jacket completes the cable construction.

FEATURES

- Flexible Jacket Design
- Indoor/Outdoor Rated
- Low Smoke/Zero Halogen (LSZH) materials
- Dual Flame Rating (OFNR and IEC-60332-3C)
- Complies with ICEA-S-696 Standard
- Fiber counts of 288-864 with 24 fiber ribbons

BENEFITS

- Offers ease of routing within Data Centers or Central Office ladder racking
- Dual fire rating promotes global use and reduces regional code selection issues
- High fiber count ribbon backbone cable helps to speed installation time when compared with single-fiber cables
- High-fiber density helps save on valuable space

ORDERING INFORMATION

EXAMPLE:
8FIO-288A-WDK-4¹

8FIO NNN A - WXY - Z

8FIO = AccuRiser Indoor/Outdoor Cable

NNN = Fiber Count
288, 576, 864

A = Initial Release Version

W = Fiber Type

Single-Mode Optical Fiber

- W = AllWave® FLEX+ ZWP Bend-Optimized Optical Fiber (G.657.A2)
- 9 = AllWave FLEX Max Bend-Optimized Optical Fiber (G.657.A2 & G.652.D)
- D = EZ-Bend® Ultra-Bend Insensitive Optical Fiber (G.657.B3)
- A = AllWave+ ZWP Bend-Optimized Optical Fiber (G.657.A1)

Multimode Optical Fiber

- K = LaserWave® FLEX G+ Optical Fiber (OM2)
- 3 = LaserWave FLEX 300 Optical Fiber (OM3)
- 5 = LaserWave FLEX 550 Optical Fiber (OM4)

X = Jacket Material (Flame Retardant)

- D = Dual-Rated Low Smoke/Zero Halogen (UL 1666 & IEC 60332-3C)

Y = Jacket Color²

- K = Black
- Y = Yellow
- A = Aqua
- T = Black with Two Yellow Stripes

Z = Maximum Cable Attenuation (see chart)

Maximum Cable Attenuation*

Single-Mode Optical Fiber (dB/km)	1310 nm	1550 nm	MCA (Z)
AllWave FLEX+ ZWP Bend-Optimized Optical Fiber	0.4	0.3	4
AllWave FLEX Max Bend-Optimized Optical Fiber	0.4	0.3	4
EZ-Bend Ultra-Bend Insensitive Optical Fiber	0.4	0.3	4
AllWave+ ZWP Bend-Optimized Optical Fiber	0.4	0.3	4
Multimode Optical Fiber (dB/km)	1310 nm	1550 nm	MCA (Z)
LaserWave FLEX G+ Optical Fiber	3.5	1.5	G
LaserWave FLEX 300 Optical Fiber	3.5	1.5	G
LaserWave FLEX 550 Optical Fiber	3.5	1.5	G

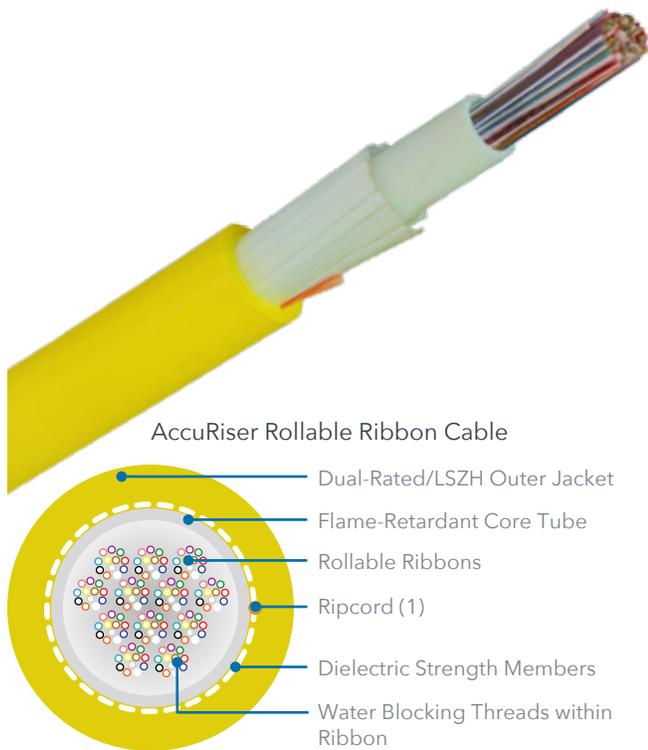
¹ Part Number shown is for an AccuRiser Dual-Rated Indoor/Outdoor Cable with 288 AllWave FLEX+ ZWP Optical Fibers and standard cable print:

OFS G.657.A1 I/O OPTICAL CABLE -C- 8FIO-288A-WDK-4 ONFG-ST1 FT4 c (UL) OFNR-LS IEC 60332-3-24 LSZH [MM/YY] [LOT NO] [LENGTH IN FEET]

² Contact OFS Order Management for information on other cable variations including additional fiber types, fiber counts, attenuation and custom cable print.

AccuRiser™ Rollable Ribbon Fiber Optic Cable

Innovative Indoor/Outdoor Cable Offers
High Fiber Density and Flexibility for Data Center Applications



WHY THE ACCURISER ROLLABLE RIBBON CABLE?

Every element of the AccuRiser Cable is designed to offer high fiber density while helping to speed installation during a new data center or central office deployment. The 12-fiber rollable ribbons allow splice-in-place operations that help to get a facility up and running quickly. This strong yet flexible cable helps to ease cable installation over ladder racking and through tight bends during routing as well as smoothing and speeding installation. The compact design also improves ladder rack utilization (more cables in the same space).

The AccuRiser Rollable Ribbon Cable is an excellent choice for building-to-building cable connections. This cable also removes the need for intermediate splice points for transitions from the outdoor environment to indoor use. Reducing the number of splices can help result in improved system loss and lower termination points within a network.

The cable is also well suited for routing for terminations and frames as well as preconnectorized applications.

PRODUCT DESCRIPTION

The AccuRiser Rollable Ribbon (RR) Cable was specifically designed to offer high fiber density and excellent carrying capacity. This compact cable features rollable ribbons, OFS' newest optical fiber ribbon design. These ribbons help enable highly efficient ribbon splicing and easy individual fiber breakout. This ribbon design may also be "rolled" (compacted) and routed like individual fibers to facilitate use in smaller closures and splice trays.

FEATURES

- OFS rollable ribbon technology
- Compact, flexible design
- Indoor/outdoor rated
- Highly crush-resistant central core
- Low Smoke/Zero Halogen (LSZH) materials
- Dual Flame Rating (OFNR and CPR rated)
- Complies with ICEA-S-696 Standard
- Fiber counts of 144 to 864
- Excellent water-penetration resistance

BENEFITS

- Rollable ribbons help enable smaller cable outer diameter (OD) and reduced weight versus traditional ribbon cable designs
- Optimized for fast, cost-effective mass fusion splicing
- Dual flame rating promotes global use and reduces regional code selection issues
- High fiber density helps save on valuable space
- Cable flexibility simplifies handling and installation

ORDERING INFORMATION

EXAMPLE:
8RIO-288A-WDK-4¹

8RIO - *NNN* *A* - *WXY* - *Z*

8RIO = AccuRiser Rollable Ribbon Indoor/Outdoor Cable

***NNN* = Fiber Count**

144, 288, 432, 576, or 864

***A* = Initial Release Version**

***W* = Fiber Type**

Single-Mode Optical Fiber

W = AllWave® *FLEX+* ZWP Bend-Optimized Optical Fiber (G.657.A2)

A = AllWave+ ZWP Bend-Optimized Optical Fiber (G.657.A1)

***X* = Jacket Material (Flame Retardant)**

D = Dual-Rated Low Smoke/Zero Halogen (UL 1666 & CPR Rated)

***Y* = Jacket Color²**

K = Black

Y = Yellow

T = Black with Two Yellow Stripes

***Z* = Maximum Cable Attenuation (see chart)**

¹ Part Number shown is for an AccuRiser Rollable Ribbon Indoor/Outdoor Cable with 288 AllWave+ ZWP Optical Fibers and standard cable print:

OFS G.657.A1 I/O OPTICAL CABLE -C- 8RIO-288A-WDK-4 ONFG-ST1 FT4 c (UL) OFNR-LS LSZH CPR [MM/YY] [LOT NO] [LENGTH IN FEET]

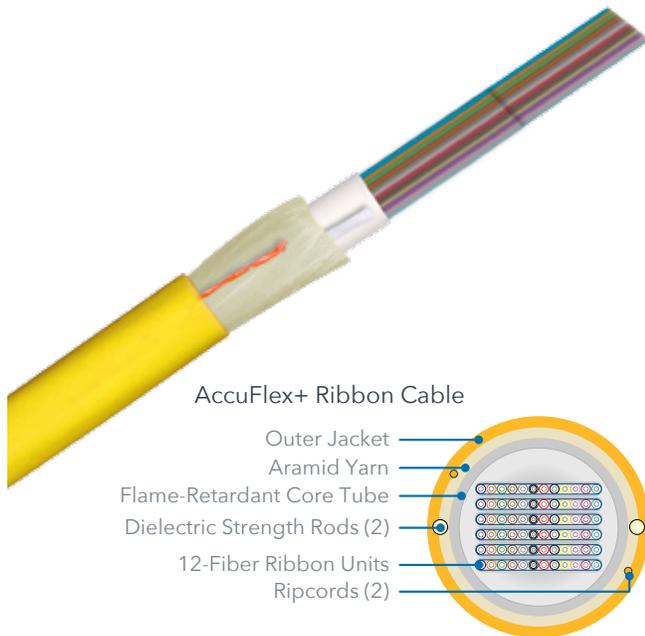
² Contact OFS Order Management for information on other cable variations including additional fiber types, fiber counts, attenuation and custom cable print.

Maximum Cable Attenuation*

Single-Mode Optical Fiber (dB/km)	1310 nm	1550 nm	MCA (Z)
AllWave <i>FLEX+</i> ZWP Bend-Optimized Optical Fiber	0.4	0.3	4
AllWave+ ZWP Bend-Optimized Optical Fiber	0.4	0.3	4

AccuFlex®+ Ribbon Cable

Compact, Flexible Round Ribbon Cable Offers Increased Durability for High-Bandwidth Applications



PRODUCT DESCRIPTION

The OFS AccuFlex+ Round Ribbon Cable offers excellent transmission performance, flexibility and connectivity, all in a highly compact package. Available in dual-rated, low-smoke zero halogen (LSZH) and plenum versions, this cable offers increased durability and ease of deployment for a variety of installation environments, including high-bandwidth data center/central office applications and CATV head-ends.

To construct the AccuFlex+ Cable, optical ribbon units are placed in a flame-retardant, central core tube. Each unit features 12 color-coded optical fibers arranged in a flat ribbon matrix. The solid buffer core is surrounded with a layer of aramid yarn for added protection and strength. Next, two dielectric strength rods are applied linearly over the aramid yarn to provide even greater durability and crush resistance. Finally, the cable construction is completed by the application of a proprietary, flame-retardant jacket.

WHY THE ACCUFLEX+ CABLE?

The AccuFlex+ Cable is specifically designed for customers who need a round cable that is smaller, more flexible and easier to install than standard round indoor ribbon cable designs. This cable incorporates aramid yarn and two dielectric strength rods to provide excellent strength and compression resistance.

The AccuFlex+ Cable also offers increased environmental safety for premises use. The dual-rated, LSZH cables use a RoHS-compliant low-smoke, PVC outer jacket, and meet stringent UL 1666 requirements for non-halogen cables. The plenum-rated cables are listed as meeting the flame spread and smoke emission requirements of the NFPA 262 plenum fire test. All cables use advanced materials that allow them to meet fire test requirements in a very compact package.

The cable's outstanding micro-bend performance makes it especially suitable for applications requiring 50 µm multimode optical fiber such as OFS LaserWave Optical Fibers. It is also ideal for use in high-bandwidth data center/central office applications, especially where MPO/MPX multifiber connectors are used.

FEATURES AND BENEFITS

- Compact, flexible, round ribbon design for ease of deployment
- Offers increased durability and enhanced compression resistance
- Outstanding microbend performance
- Available in plenum-rated designs and dual-rated, non-halogen/LSZH designs
- Ideal for use in high-bandwidth applications and optimized for MPO/MPX connectors
- Complies with Telcordia, ICEA, NEC, ANSI-FDDI, IEEE and TIA standards; meets GR-409 and ICEA pull strength requirements for vertical backbone use
- Meets UL 1666 for riser applications; meets NFPA 262 and UL 910 for plenum use
- RoHS compliant and free of heavy metals
- Available with OFS AllWave® FLEX+ Zero Water Peak (ZWP) Single-Mode Optical Fiber, AllWave FLEX MAX ZWP Bend-Optimized Single-Mode Optical Fiber, LaserWave FLEX Multimode Optical Fibers and other multimode optical fibers

ORDERING INFORMATION

EXAMPLE:
ARRC-072A-WDY¹

ARRC NNN C - WXY - Z

ARRC = AccuFlex+ Round Ribbon

NNN = Fiber Count

012-144 (Increments of 12)

C = Cable Version

A = Dual-Rated LSZH (12-144 Fibers)
F = Plenum (12-96 Fibers)

W = Fiber Type

Single-Mode Optical Fiber

W = AllWave® *FLEX*+ ZWP Bend-Optimized Optical Fiber (G.657.A2)
9 = AllWave *FLEX* Max Bend-Optimized Optical Fiber (G.657.A2 & G.652.D)

Multimode Optical Fiber

K = LaserWave® *FLEX* G+ Optical Fiber (OM2)
3 = LaserWave *FLEX* 300 Optical Fiber (OM3)
5 = LaserWave *FLEX* 550 Optical Fiber (OM4)

X = Jacket Type

D = Dual-Rated LSZH
P = Plenum

Y = Jacket Color²

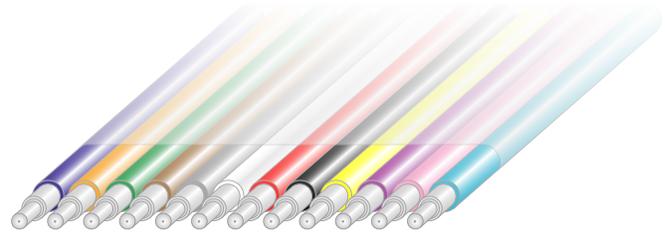
Y = Yellow
A = Aqua

Z = Maximum Cable Attenuation (see chart)

¹ Part Number shown is for an AccuFlex+ Dual-Rated LSZH Cable with 72 AllWave *FLEX*+ ZWP Optical Fibers and standard cable print:

OFS ACCUFLEX®+ BIF G.657.A2 OPTICAL CABLE – C
–ARRC-072A-WDY-4 9/125 LSZH CPR (UL) OFNR-LS
C (UL) OFNG-ST1 [MM/YY] [LOT NO] [LENGTH IN
FEET]

² Contact OFS Order Management for availability of alternative jacket colors.



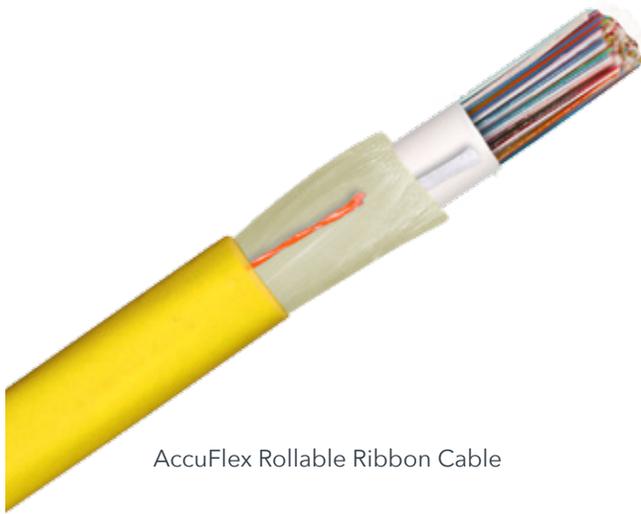
Maximum Cable Attenuation*

Single-Mode Optical Fiber (dB/km)	1310 nm	1550 nm	MCA (Z)
AllWave <i>FLEX</i> + ZWP Bend-Optimized Optical Fiber	0.4	0.3	4
AllWave <i>FLEX</i> Max Bend-Optimized Optical Fiber	0.4	0.3	4
Multimode Optical Fiber (dB/km)	1310 nm	1550 nm	MCA (Z)
LaserWave <i>FLEX</i> G+ Optical Fiber	3.5	1.5	G
LaserWave <i>FLEX</i> 300 Optical Fiber	3.5	1.5	G
LaserWave <i>FLEX</i> 550 Optical Fiber	3.5	1.5	G

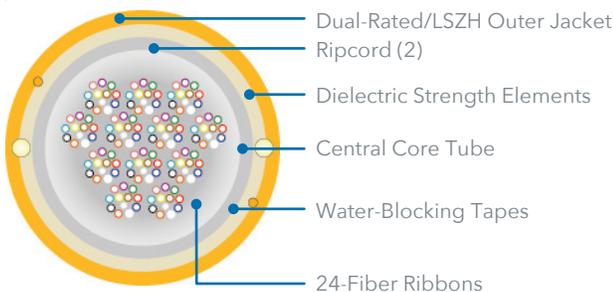
* **NOTE:** Installed attenuation values shall be at or below those listed above.

AccuFlex® Rollable Ribbon Fiber Optic Cable

Ultra-Compact and Flexible, Rollable Ribbon Cable
Combines the Benefits of Flat Ribbons and Loose Fibers



AccuFlex Rollable Ribbon Cable



FEATURES

- Ultra-compact, round rollable ribbon design
- Fiber counts of 144 and 288
- Flexible, plenum-rated cable
- RoHS-compliant and free of heavy metals
- Available with OFS AllWave® *FLEX+* Zero Water Peak (ZWP) (G.657.A2) or AllWave+ Optical Fibers (G.652.D + G.657.A1)

BENEFITS

- Delivers the highest fiber density relative to cable size
- Offers durability and enhanced compression resistance
- Flexibility of cable promotes ease of handling and installation to help speed deployment
- Ribbon fibers can be easily separated into single fibers or mass fusion spliced

PRODUCT DESCRIPTION

The AccuFlex Rollable Ribbon (RR) Cable was specifically designed to offer the benefits of both traditional flat fiber ribbons and loose fibers in one cable. This highly compact cable features rollable ribbon technology, the newest optical fiber ribbon design from OFS. To form these ribbons, individual 250 µm optical fibers are partially bonded to each other at intermittent points.

WHY THE ACCUFLEX RR CABLE?

The AccuFlex Rollable Ribbon Cable was designed to offer the highest fiber density possible relative to cable size with a highly flexible cable jacket. The result is an ultra-compact and dense cable that requires less space, allowing installers to double the density of existing pathways vs. standard flat ribbon cable designs.

This cable features 12-fiber rollable ribbons that help to facilitate efficient mass fusion splice-in-place operations and easy access to individual fibers. This capability can help to get a new data center or central office deployment up and running quickly.

The strong, yet flexible, plenum-rated AccuFlex Rollable Ribbon Cable helps to prevent installation issues including packing density, routing and speed of deployment. This cable's flame rating also meets the demands of NFPA 262, thereby allowing installation into air-handling spaces.

In all, the AccuFlex Rollable Ribbon Cable offers an outstanding solution for data centers/central offices and head ends. It is also an excellent choice for high-bandwidth applications that use single-mode optical fiber.

ORDERING INFORMATION

EXAMPLE:
AFRR-144A-WPY-4¹

AFRR - *NNN* *A* - *WXY* - *Z*

AFRR = AccuFlex Rollable Ribbon Cable

***NNN* = Fiber Count**

144 or 288

***A* = Initial Release Version**

***W* = Fiber Type**

Single-Mode Optical Fiber

W = AllWave® *FLEX+* ZWP Bend-Optimized Optical Fiber (G.657.A2)

A = AllWave+ ZWP Bend-Optimized Optical Fiber (G.657.A1)

***X* = Jacket Material (Flame Retardant)**

P = Plenum

***Y* = Jacket Color²**

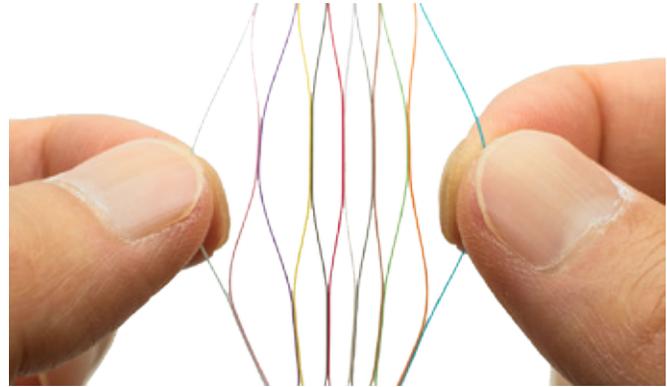
Y = Yellow

***Z* = Maximum Cable Attenuation (see chart)**

¹ Part Number shown is for an AccuFlex Rollable Ribbon with 144 AllWave *FLEX+* ZWP Optical Fibers and standard cable print:

OFS ALLWAVE® FLEX+ ZWP BIF G.657.A2 OPTICAL CABLE -C- AFRR-144A-WPK-4 9/125 0FNP FT6 C (UL) 0FNP [MM/YY] [LOT NO] [LENGTH IN FEET]

² Contact OFS Order Management for information on other cable variations including additional fiber types, fiber counts, attenuation and custom cable print.

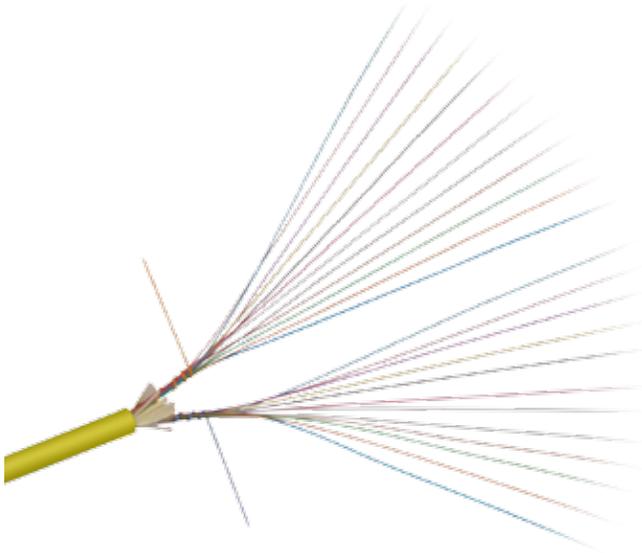


Maximum Cable Attenuation*

Single-Mode Optical Fiber (dB/km)	1310 nm	1550 nm	MCA (Z)
AllWave <i>FLEX+</i> ZWP Bend-Optimized Optical Fiber	0.4	0.3	4
AllWave+ ZWP Bend-Optimized Optical Fiber	0.4	0.3	4

M-Pack® Backbone Cable

Versatile Design Enhanced for Data Centers, Central Office and FTTB Applications



M-Pack Backbone Cable

FEATURES

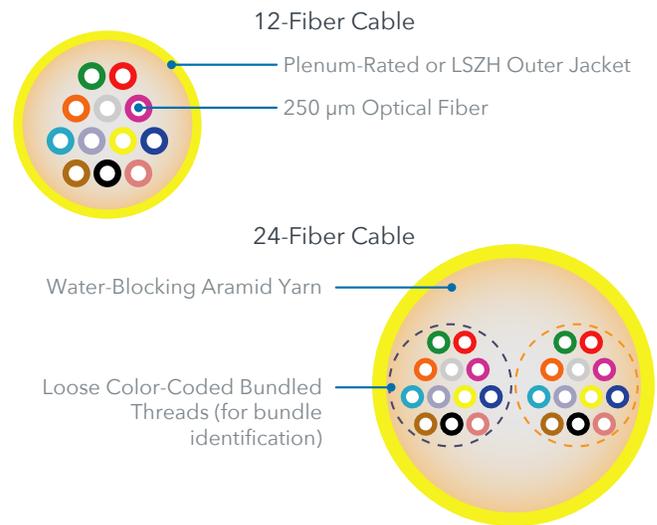
- Compact, lightweight cable rated for Horizontal Backbone applications
- UV-stabilized design approved for Indoor/Outdoor use
- Plenum rating (OFNP) or LSZH for routing through a broad range of deployment spaces
- 3.0 or 3.8 mm outer diameter (OD)
- Fiber counts 2 -24

BENEFITS

- Small outer diameter offers more efficient cable management in ladder racking
- Indoor/Outdoor capability allows routing between buildings
- Versatile cable design suitable for a wide range of applications

PRODUCT DESCRIPTION

The M-Pack Backbone Cable uniquely combines ratings for plenum, horizontal backbone and indoor/outdoor use to create a truly versatile design. UV-resistant jacket materials (OFNP rated), water-blocking aramids and high tensile optical fibers together produce a robust cable that is designed to deliver excellent performance in short routing outdoor spaces.



WHY THE M-PACK BACKBONE CABLE?

With its versatile design and excellent performance, the M-Pack Backbone Cable is designed to be installed at virtually any point in a network. While this cable's extra-small footprint helps to improve routing in today's data centers and central offices, it also meets stringent Telcordia GR-409 standards for horizontal applications (typically using ladder racking). This cable offers reduced cable congestion, high crush resistance and superior fibers to help create the next generation of cabling solutions.

Available in a wide range of OFS optical fibers to meet the needs of your specific application, the durable, compact M-Pack Backbone Cable is ideal for Data Centers, Central Offices, backbone installations and MPO connector terminations. The indoor/outdoor version, paired with EZ-Bend® Optical Fiber, is well suited for FTTx applications.

ORDERING INFORMATION

EXAMPLE:

MB30-012A-9PY-4-12-IO¹

MBNNN - NNN A - WXY - Z - U - V

MB = M-Pack Backbone Cable

NN = Cable Size

- 30 = 3.0 mm M-Pack Backbone Cable
- 38 = 3.8 mm M-Pack Backbone Cable

NNN = Fiber Count

002 - 024

A = Initial Release Version

W = Fiber Type

Single-Mode Optical Fiber

- W = AllWave® FLEX+ ZWP Bend-Optimized Optical Fiber (G.657.A2)
- 9 = AllWave FLEX Max Bend-Optimized Optical Fiber (G.657.A2 & G.652.D)
- D = EZ-Bend® Ultra-Bend Insensitive Optical Fiber (G.657.B3)

Multimode Optical Fiber

- K = LaserWave® FLEX G+ Optical Fiber (OM2)
- 3 = LaserWave FLEX 300 Optical Fiber (OM3)
- 5 = LaserWave FLEX 550 Optical Fiber (OM4)
- 4 = LaserWave FLEX 550 Wideband Optical Fiber (OM5)

X = Jacket Type

- P = Plenum Rated OFNP
- H = LSZH

Y = Jacket Color²

- K = Black (IO)
- Y = Yellow (IN)
- O = Orange (IN)
- W = White (IO)
- A = Aqua (IN)
- L = Lime (IN)

Z = Maximum Cable Attenuation (see chart)

U = Fibers per Unit

01, 02, 04, 06, 08, 12, and 16

V = Application

- IO = Indoor/Outdoor
- IN = Indoor

Maximum Cable Attenuation*

Single-Mode Optical Fiber (dB/km)	1310 nm	1550 nm	MCA (Z)
AllWave FLEX+ ZWP Bend-Optimized Optical Fiber	0.4	0.3	4
AllWave FLEX Max Bend-Optimized Optical Fiber	0.4	0.3	4
EZ-Bend Ultra-Bend Insensitive Optical Fiber	0.4	0.3	4
Multimode Optical Fiber (dB/km)	1310 nm	1550 nm	MCA (Z)
LaserWave FLEX G+ Optical Fiber	3.5	1.5	G
LaserWave FLEX 300 Optical Fiber	3.5	1.5	G
LaserWave FLEX 550 Optical Fiber	3.5	1.5	G
LaserWave FLEX 550 WideBand Optical Fiber	3.5	1.5	G

* **NOTE:** Installed attenuation values shall be at or below those listed above.

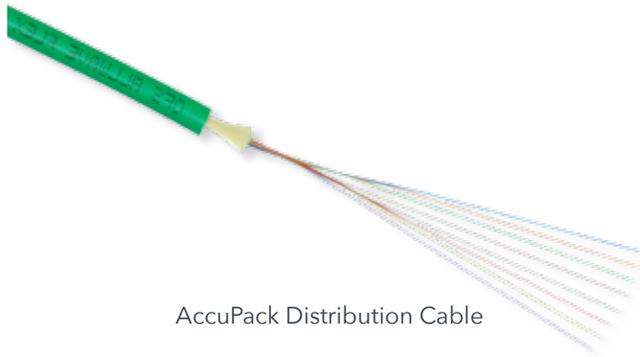
¹ Part Number shown is for an M-Pack Backbone Plenum-Rated Cable with 12 AllWave FLEX ZWP Single-Mode Optical Fibers and standard cable print:

OFS M-PACK® ALLWAVE® FLEX+ ENHANCED ZWP BIF G.657.A2 OPTICAL CABLE -C- MB30-012A-7PY-4-12-IO 9/125 FT6 C (UL) OFNP [MM/YY] [LOT N0] [LENGTH IN FEET]

² Contact OFS Order Management for availability on other cable variations, including additional fiber types, attenuation and custom cable print.

AccuPack® Distribution Cables

Compact Cables Offer Enhanced Strength and Flexibility for Expanded Premises Use

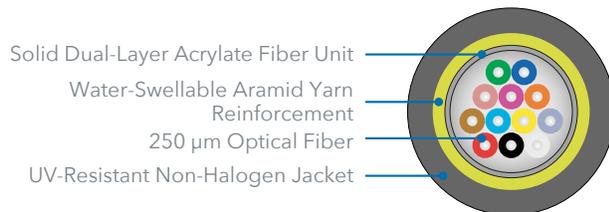


AccuPack Distribution Cable

Indoor Optical Cable Design (12-Fiber Arrangement Shown)



Indoor/Outdoor Optical Cable Design (12-Fiber Arrangement Shown)



FEATURES AND BENEFITS

- Compact, flexible cordages allow ease of deployment and termination
- Enhanced crush-resistant products offer expanded application use with up to 200 N compression load using AllWave® FLEX+ ZWP Optical Fiber
- Solid, UV-cured dual layer acrylate matrix supplies outstanding toughness and kink resistance while allowing easy removal
- Available with EZ-Bend® Optical Technology
- Free of heavy metals and RoHS compliant
- Meets the requirements of IEC 61034-2 (smoke evolution), IEC 60332-3 (flame spread), IEC 60754-1 (acid gas evolution) and NES 713 (toxicity index)
- Available with a variety of OFS optical fibers including AllWave FLEX+ ZWP Optical Fiber

PRODUCT DESCRIPTION

When you need a robust, high-density and flexible cable for data center, central office or frame management applications, look to the OFS AccuPack Distribution Cables. With Indoor, Indoor/Outdoor and Tough Coat (TC) Indoor designs to choose from, there's an AccuPack Cable to meet the needs of your installation.

The construction begins by gathering and encasing between 2 and 12 color-coded 250 micron (μm) optical fibers in a durable, dual-layer solid acrylate unit to create an AccuPack Fiber Unit. This AccuPack Unit is then surrounded with aramid yarn for reinforcement and covered with a flame-retardant, low smoke, zero-halogen (LSZH) outer jacket.

For the AccuPack TC Cable, the fibers are encased in an even more robust, dual-layer solid acrylate fiber unit. Then, one of two of these highly rugged AccuPack TC Fiber Units are surrounded by aramid yarn and covered with either a plenum-rated or LSZH outer jacket.

WHY THE ACCUPACK DISTRIBUTION CABLES?

The AccuPack Cables' unique structure features an acrylate matrix applied directly over the optical fibers to create a solid, dual-layer acrylate fiber unit. This specially-designed fiber unit offers excellent crush, bending and kink resistance, thereby expanding the use of these cables well beyond that of traditional interconnect cables. During installation, the matrix can be easily removed from the optical fibers with minimal residue, leaving the fibers ready for immediate splicing or connectorization.

The AccuPack Cables' compact size reduces congestion to minimize heat loads, thereby helping to lower energy costs and reduce operating expenses and capital investment.

The AccuPack Cables offer an excellent choice for any premises application where a high-density and durable yet flexible cable is needed, such as for installations in overhead racks or under-floor trays (including long runs) in data centers, LAN infrastructures or central offices.

ORDERING INFORMATION

EXAMPLE:

APBC-012C-WHY-4¹ (AccuPack Indoor)

APBC *NNNC* - *WXY* - *Z*

APBC = AccuPack Indoor

APTC = AccuPack TC (Tough Coat)

APIO = AccuPack Indoor/Outdoor

***NNN* = Fiber Count**

001, 002, 004, 006, 008 or 012 (AccuPack and AccuPack Indoor/Outdoor)
012, 024 or 048 (AccuPack TC)

V = Cable Version

C = AccuPack and AccuPack Indoor/Outdoor
B = AccuPack TC LSZH Rated
A = AccuPack TC Plenum Rated

W = Fiber Type

Single-Mode Optical Fiber

W = AllWave® *FLEX+* ZWP Bend-Optimized Optical Fiber (G.657.A2)
9 = AllWave *FLEX* Max Bend-Optimized Optical Fiber (G.657.A2 & G.652.D)

Multimode Optical Fiber

K = LaserWave *FLEX* G+ Optical Fiber (OM2)
3 = LaserWave *FLEX* 300 Optical Fiber (OM3)
5 = LaserWave *FLEX* 550 Optical Fiber (OM4)

X = Jacket Type

H = Low Smoke, Zero Halogen (LSZH)
P = Plenum (AccuPack TC)

***Y* = Jacket Color²**

Indoor Cable

Y = Yellow (Single-Mode Optical Fiber)
O = Orange (50/125 µm Multimode Optical Fiber)
A = Aqua (LaserWave Optical Fiber)

Indoor/Outdoor Cable

K = Black

***Z* = Maximum Cable Attenuation (see chart)**

Maximum Cable Attenuation*

Single-Mode Optical Fiber (dB/km)	1310 nm	1550 nm	MCA (Z)
AllWave <i>FLEX+</i> ZWP Bend-Optimized Optical Fiber	0.4	0.3	4
AllWave <i>FLEX</i> Max Bend-Optimized Optical Fiber	0.4	0.3	4

Multimode Optical Fiber (dB/km)	1310 nm	1550 nm	MCA (Z)
LaserWave <i>FLEX</i> G+ Optical Fiber	3.5	1.5	G
LaserWave <i>FLEX</i> 300 Optical Fiber	3.5	1.5	G
LaserWave <i>FLEX</i> 550 Optical Fiber	3.5	1.5	G

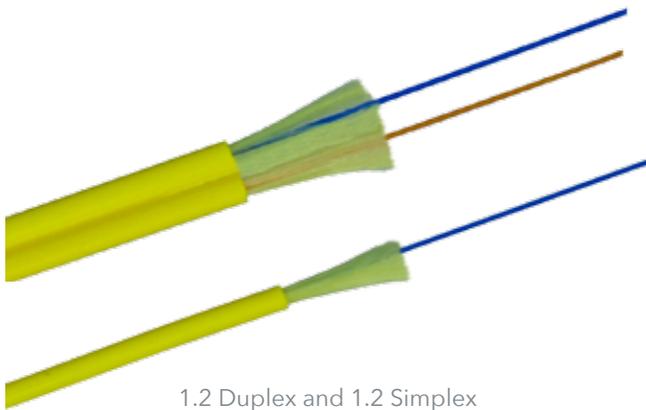
* **NOTE:** Installed attenuation values shall be at or below those listed above.

¹ Part Number shown is for an AccuPack Indoor LSZH Cable with yellow jacket, 12 fibers and standard cable print:
OFS ACCUPACK® ALLWAVE® FLEX+ ZWP BIF G.657.A2 OPTICAL CABLE -C- APBC-012C-WHY-4 9/125 LSZH CPR [MM/YY] [LOT NO] [LENGTH IN METERS]

² Contact OFS Order Management for information on other cable variations, including fiber types, attenuation, and custom cable print.

M-Pack® Interconnect Cordage

Highly Compact, Leading-Edge Cordage Offers Ease of Deployment for Demanding, High-Density Applications



1.2 Duplex and 1.2 Simplex
M-Pack Cordages

WHY THE M-PACK INTERCONNECT CORDAGE?

The M-Pack Interconnect Cordage is specifically engineered for customers who need an extremely compact and flexible, yet highly durable cordage optimized for use with demanding high-density and FTTx drop solutions.

This cordage's small diameter and light weight allow ease of deployment and termination along with rapid access for splicing for use in FTTx drop solutions. The cordage also offers:

Optical Fiber Quality: OFS develops and produces world-class optical fibers with precise fiber geometries for a broad range of global applications.

Strength and Durability: The M-Pack Interconnect Cordage is designed to exceed industry tensile standards and features extra aramid yarn in each cordage for added strength.

Material Performance Stability: Controlling cordage shrinkage is key to delivering a high-performance connectorized product. OFS' extensive knowledge of materials allows us to design and produce cordages that help enterprise cabling networks and other high-bandwidth applications.

PRODUCT DESCRIPTION

When you need a highly compact, leading-edge cordage solution for demanding high-density applications, look to the new M-Pack® Simplex Interconnect Cordage. This new cordage series was specifically designed to answer the need for extremely small and lightweight, yet durable and flexible, cordages to help facilitate rapid installation, termination, and splicing.

World-class OFS optical fiber lies at the heart of each M-Pack Simplex Cordage. Aramid yarn is wrapped around the non-buffered, 250 µm optical fiber for protection and to add overall strength to the cordage. This construction is then carefully encased in a durable, flame-resistant jacket. The 1.2 mm M-Pack Simplex Cordage is also available in duplex zipcord and round duplex constructions and features a PVC OFNR riser-rated jacket. Recently released Dual Rated LSZH is now available in simplex and duplex round constructions.

FEATURES

- Lightweight cordage with highly reduced diameter
- Available in simplex and duplex designs
- OFNR meets UL 1666
- Dual Rated meets LSZH UL1666 and IEC 60332-1
- RoHS compliant and environmentally friendly; free of heavy metals and polybrominated fire retardants

BENEFITS

- Compact, lightweight cordage allows ease of deployment and termination
- Ideal for use in high-density frame management systems and in building micro assemblies
- Increase packing density by 196%

ORDERING INFORMATION

EXAMPLE:
MP12-001A-WRY-4¹

MP12 - NNNA - WXY - Z

MP12 = M-Pack 1.2 mm

MX12 = M-Pack Round Duplex

NNN = Fiber Count

001, 002

A = Cable Version

Default Version

W = Fiber Type

Single-Mode Optical Fiber

W = AllWave® FLEX+ ZWP Bend-Optimized Optical Fiber (G.657.A2)

9 = AllWave FLEX Max Bend-Optimized Optical Fiber (G.657.A2 & G.652.D)

Multimode Optical Fiber

K = LaserWave® FLEX G+ Optical Fiber (OM2)

3 = LaserWave FLEX 300 Optical Fiber (OM3)

5 = LaserWave FLEX 550 Optical Fiber (OM4)

X = Jacket Type

R = Riser

P = Plenum

D = Dual Rated

Y = Jacket Color²

Y = Yellow (Single-Mode Optical Fiber)

A = Aqua (LaserWave MM Optical Fiber)

Z = Maximum Cable Attenuation (see chart)

4 = AllWave Single-Mode Optical Fiber

G = LaserWave MM Optical Fiber

¹ Part Number shown is for a 1.2 mm M-Pack Simplex Riser-Rated AllWave FLEX+ ZWP Single-Mode Optical Fiber Cordage with a yellow jacket, one (1) 250 micron optical fiber and standard cable print:

OFS M-PACK® ALLWAVE® FLEX+ ZWP BIF G.657.A2 OPTICAL CABLE -C- MP12-001A-WRY-4 9/125 FT4 C (UL) OFNR-LS [MM/YY] [LOT N0] [LENGTH IN FEET]

² Contact OFS Order Management for availability of alternative jacket colors and fiber types.

Maximum Cable Attenuation*

Single-Mode Optical Fiber (dB/km)	1310 nm	1550 nm	MCA (Z)
AllWave FLEX+ ZWP Bend-Optimized Optical Fiber	0.4	0.3	4
AllWave FLEX Max Bend-Optimized Optical Fiber	0.4	0.3	4
Multimode Optical Fiber (dB/km)	1310 nm	1550 nm	MCA (Z)
LaserWave FLEX G+ Optical Fiber	3.5	1.5	G
LaserWave FLEX 300 Optical Fiber	3.5	1.5	G
LaserWave FLEX 550 Optical Fiber	3.5	1.5	G

* **NOTE:** Installed attenuation values shall be at or below those listed above.

SHELVES AND HARDWARE

Mini-OCEF

Compact Splice Management



Mini-OCEF

PRODUCT DESCRIPTION

The Mini-OCEF (Optical Cable Entrance Facility) is a splice management/fiber management steel cabinet designed to provide fiber splicing and termination as well as cross/interconnect capabilities in industrial environments.

FEATURES

- Splicing/termination/fiber management
- 24 termination capacity, 48 if using LC
- Rated to provide protection from dirt, dust and water spray
- Key lock door is removable

ORDERING INFORMATION

Product Description	Comcode
Mini-OCEF Cabinets and Clamps	
200B1 - Box with Nylatch inner lock, recessed hex nut external lock	108905688
200B2 - Box with Nylatch inner lock, recessed hex nut external lock	108905696
12A1 Clamp for metallic sheath cable	104384490
12A2 Clamp for dielectric sheath cable	106230337
Panels Pre-Loaded with Adapters	
6 LC Simplex Adapters - SM Blue	300517497
6 LC Simplex Adapters - SM Angled Green	300398443
6 LC Duplex Adapters - MM Beige	300468386
6 SC Simplex Adapters - SM Blue	106500630
6 SC Simplex Adapters - SM Angled Green	300407137
6 SC Simplex Adapters - MM Beige	300466190
6 SC Duplex Adapters - MM Beige	300439106
6 SM ST® Adapters	106500622
6 MM ST Adapters	107802498
6 FC Adapters	106225923
Empty Panels	
6 LC Simplex Adapter Cutouts	108365685
6 LC Duplex Adapter Cutouts	108365693
8 SC Simplex Adapter Cutouts	106970981
6 SC Simplex Adapter Cutouts	106372121
3 SC Duplex Adapter Cutouts	107153462
6 ST Adapter Cutouts	105392005
12 Pack of 6 ST R Adapter Cutouts	105428486
6 FC/D4 Adapter Cutouts	105428254
Blank Panels (Package of 6)	106924483

OCEF-22 and OCEF-42

Compact Splice Management



OCEF-22



OCEF-42

PRODUCT DESCRIPTION

The OCEF 22 and 42 are robust steel cabinets designed to provide splice protection for transition splices between OSP and building cable. They are designed to resist dirt, dust, and water spray.

FEATURES

- Equipped with mounting feet for wall mounting
- Hardware included for Unistrut* mounting
- Self contained work shelf
- Removable shingles accept up to 3 OSP cables, secured with 12A cable clamp
- OCEF-22, 42 solid plate shingles removable to accommodate customer specific applications (like pulling conduit)
- Lifting points on outside of shelf to aid in placing
- Kits available for unit splitting, blocking, and grounding including an AccuRibbon® Fiber Prep Kit
- Steel construction
- Removable, lockable hinged door
- Secure locking cabinet
- Handles cable sizes from .236 inches (.559 cm) to 1.26 inches (3.2 cm)
- OCEF-22 can accommodate up to 48 cables, 60 with additional shingles (accepts up to 12LT1B splice organizers)
- OCEF-42 can accommodate up to 84 cables, 96 with additional shingles (accepts up to 30 LT1B splice trays)

* Unistrut is a registered trademark of Unistrut Corporation and/or its affiliates in the United States and/or other countries.

OCEF-22 and OCEF-42 *Continued*

ORDERING INFORMATION		
Product Description	Product Code	Comcode
OCEF Side Entry	OCEF1-22-SE	106642911
OCEF Bottom and Top Entry	OCEF2-22-TE	106767197
OCEF Solid Shingles (Top, Bottom, and Side Solid Shingles)	OCEF3-22	300387925
OCEF Side Entry	OCEF1-42-SE	106642937
OCEF Bottom and Top Entry	OCEF2-42 TE	106767205
Clamp for Metallic Sheath Cable (0.4" to 0.999") (1.02 cm to 2.54 cm)	12A1	104384490
Clamp for Dielectric Sheath Cable (0.4" to 0.999") (1.02 cm to 2.54 cm)	12A2	106230337
Clamp (0.25" to 1.5") for Metallic and Dielectric Sheath Cable	12A3L	108527433
(48) Fiber Fusion Splice Organizer	LT1B-F/F	300386919
(18) Mass Fusion Splice Organizer	LT1B-MF/MF	300386935
(24) Mass Fusion Splice Organizer	LT2B-MF/MF	301142592
(36) Mass Fusion Splice Organizer	LT3B-MF/MF	301142600
6 to 1 Unit Splitter	D-181781 Kit	105342463
8 to 1 Unit Splitter	D-181683 Kit	105277792
Grounding Kit for Metallic Cables	D-182212 Kit	105694038
RTV Adhesive for Blocking	Kit, RTV Adhesive	300521705
Cable Tube Blocking Kit	D-182410 Kit	106359516
(2) Cable Grommets (.236" to .708") (.59 to 1.80 cm)	D-182655 Kit	106690142
(1) Cable Grommet (.709" to 1.024") (1.81 to 2.60 cm) and (1) Shingle	D-182656 Kit	106690159
(2) Cable Grommets (.709" to 1.024") (1.81 to 2.60 cm)	D-182657 Kit	106690167
(1) Grounding Bar & (28) Lugs (for additional grounding)	D-182717 Kit	106761307
(6) Shingles (.236" to .708") grommets for extra cable capacity (0.59 to 1.80 cm)	D-182718 Kit	106761315
Kit of Parts include (1) large shingle and (1) Grommet (1.024" to 1.26") (1.81 to 3.2 cm)	Kit-864-2A	108894353
(1) Split Shingle for 1 cable express shingle (2) ports for through splicing (1.024")	Kit-864-2B	108902750
(1) Large Cable Grommet (1.024" to 1.26") (1.81 to 3.2 cm)	Large Cable Grommet	107829277
25' (7.62 m) of white PVC tubing	PVC Tubing	300446531
(1) Split shingle accommodates 1 cable (2) ports for through splicing (.708") (1.80 cm)	Split Shingle	106894553

LGX® Splice Shelves - LSS1U Series

Rugged, Versatile Buffer Optical Fibers Ideal for Confined Installations



LSS1U-05 Shelves - Closed & Opened



LSS1U-07 Shelves - Closed & Opened

PRODUCT DESCRIPTION

The LGX® Fiber Optic Splice Shelf (LSS) is generally used with a termination shelf or in splice-only applications to store individual mechanical or fusion splices.

Typically, the splice shelf is used in combination with the termination shelf.

Shelves are equipped with:

- Hinged front (metal) and rear doors constructed of white polycarbonate and equipped with knockouts for optional lock mechanism
- Universal shelf mounting brackets for frame or wall mount
- Cable clamp brackets for termination of LGBC, LGMC or OSP cables
- Blank labels for identifying fiber splices
- Splice tray housing
- The 9 inch and 10 inch splice trays have the same splice capacity but the 10 inch shelf provides additional room in the base for fiber and cable storage
- Aluminum alloy sheet 0.09 in. (2.28 mm) thick

All other associated or accessory hardware ordered separately:

- Clamp and Grounding Kit: One per outside plant cable 12A1 cable clamp or 12A2 cable clamp
- Cable Ending Blocking Kit: One per outside plant cable D-181268 for unconnectroized ribbon cables D-181781 (six Finger Unit Splitter) for LightPack® 0.41 inch (1.0 cm) cable D-181683 (eight Finger Unit Splitter) for LightPack 0.48 inch (1.2 cm) cable
- Splice Organizer Assembly
 - LT1B-F/F Splice Organizer for fusion splices; each organizer can accommodate up to 48 splices
 - LT1B-MF/MF Splice Organizer for fusion splices; each organizer can accommodate up to 18 splices (216 fusion splices)
- Pigtails and fanouts are ordered separately and are dependent on the number of splices and the splice type. The 5 inch shelf holds 3 trays for a maximum of 144 single fusion splices or pigtails. For mass fusion splicing, you need 54 fanouts

LGX® Splice Shelves - LSS1U Series *Continued*

ORDERING INFORMATION		
Product Description	Product Code	Comcode
Splice Shelves		
Splice shelf that holds 3 LT1B trays	LSS1U-05-BLK EMPTY	301011037
Splice shelf that holds 3 LT1B Tray	LSS1U-05-WHT EMPTY	105335806
Splice shelf that holds 6 LT1B trays	LSS1U-07-BLK EMPTY	300539525
Splice shelf that holds 6 LT1B trays	LSS1U-07-WHT EMPTY	105335772
Splice shelf that holds 6 LT1B trays	LSS1U-09-BLK EMPTY	301011045
Splice shelf that holds 6 LT1B trays	LSS1U-09-WHT EMPTY	300556891
Splice shelf that holds 9 LT1B trays	LSS1U-10-WHT EMPTY	300430527
Splice shelf that is equipped with 3 LT1B-F/F trays	LSS1U-05-WHT-3-LT1B-FF	300399284
Splice shelf that is equipped with 3 LT1B-MF/MF trays	LSS1U-05-WHT-3-LT1B-MF	300529161
Splice shelf that is equipped with 6 LT1B-F/F trays	LSS1U-07-WHT-6-LT1B-FF	300399433
Accessories		
	LT1B-F/F 48 SINGLE FUSION	300386919
	LT1B-M/M 36 MECHANICAL	300386927
	LT1B-MF/MF 18 MASS FUSION	300386935
	12A1 CABLE CLAMP METALLIC	104384490
	12A1 CABLE CLAMP w/o STRAP, LUG	301006888
	12A2 CABLE CLAMP DIELECTRIC	106230337
	12A3L CABLE CLAMP METALLIC/DIELECTRIC	108527433
	FUSION SLEEVE RIBBON 40MM 100PK	108383936
	FUSION SLEEVE SINGLE FIBER 60MM 50PK	105058309
	FUSION SLEEVES RIBBON 25PK	107241077
	Single Fusion Organizer	105356562
	Mass Fusion Organizer 12 pck	109116046

Sliding Plastic Shelf 1U P-LIU



Exploded View

PRODUCT DESCRIPTION

OFS offers a sliding plastic shelf with a new innovative design. The OFS 1U Series Combination Shelf in plastic helps you to save time and money using different features like fiber management and frontal fiber guide to protect your network and to permit quick rearrangement.

The 1U plastic sliding shelf houses up to 24 fusion splices using SC or LC terminations.

FEATURES

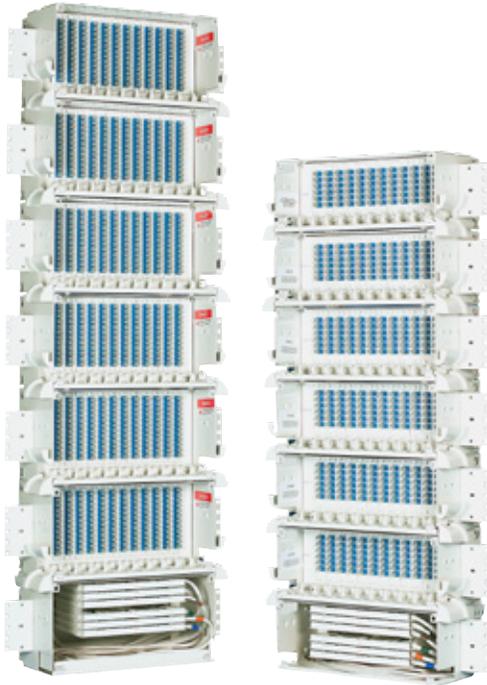
- Slim 1U mounting height (1U rack space)
- Front-mounted jumper management guide
- Easy cable fixation
- Intuitive fiber arrangement
- Sliding lateral supports
- Transparent plastic top cover with fiber routing label
- Bottom access to jumper connections
- Optional extender brackets for 23" frame

ORDERING INFORMATION

Product Code	Comcode
1U P-LIU-LC24 DUPLEX AQUA	301133237
1U P-LIU-LC24 DUPLEX AQUA PT OM3	301133245
1U P-LIU-LC48 DUPLEX AQUA	301133252
1U P-LIU-SC24 SIMPLEX AQUA	301133260
1U P-LIU-SC24 SIMPLEX AQUA PT OM3	301133278
1U P-LIU-LC24 DUPLEX AQUA	301133286
1U P-LIU-LC24 DUPLEX AQUA PT OM4	301133294
1U P-LIU-SC24 SIMPLEX AQUA PT OM4	301133328
1U P-LIU-LC24 DUPLEX BEIGE	301133336
1U P-LIU-LC24 DUPLEX BEIGE PT OM2	301133344
1U P-LIU-LC48 DUPLEX BEIGE	301133351
1U P-LIU-SC24 SIMPLEX BEIGE	301133369
1U P-LIU-SC24 SIMPLEX BEIGE PT OM2	301133377
1U P-LIU-LC24 DUPLEX BLUE	301133385
1U P-LIU-LC24 DUPLEX BLUE PT	301133393
1U P-LIU-LC48 DUPLEX BLUE	301133401
1U P-LIU-SC24 SIMPLEX BLUE	301133419
1U P-LIU-SC24 SIMPLEX BLUE PT	301133427
1U P-LIU-LC24 DUPLEX GREEN	301133435
1U P-LIU-LC24 DUPLEX GREEN PT	301133443
1U P-LIU-LC48 DUPLEX GREEN	301133450
1U P-LIU-SC24 SIMPLEX GREEN	301133468
1U P-LIU-SC24 SIMPLEX GREEN PT	301133476

LGX® Fiber Optic Shelves - LightGuide Cross-Connect

High-Density Frame Mount Fiber Access Units



Large Combination Units



5" Empty Combo Unit



12" LC Combo Unit

ATTRIBUTES

- 5" up to 74" H
- 17" W x 11.5" D
- 19" or 23" Frame Mount
- Weight Dependent on Configuration
- Rolled Sheet Metal
- Powder Coated Paint

PRODUCT DESCRIPTION

The OFS LGX® Combination Shelves are the original fiber frame solution. Customize your installation with this fast installation design. These units are a combination of 7" or 9" Termination Shelves with splice units and fanouts installed. Ask OFS to create your custom configuration from as small as 12 fibers up to our grand 864 fiber solution. All combination units are factory assembled allowing a rapid installation. Direct splicing in single or mass fusion configurations are available. Select from existing designs or work with your local representative for a customized solution.

FEATURES AND BENEFITS

- Rapid Field Installation
- Allows for Direct Cable Feed when applicable
- On Frame Splicing
- Indoor/Outdoor Fiber Management
- Use in controlled environments or OSP cabinets
- Frame mount in 23" or 19"
- Universal frame/wall mount brackets included
- Fiber Management Rings included
- Front and rear door access
- Key Lock Door available
- Combine 7 and 9 inch shelves
- 17" W x 11.5" D
- Fiber Jumper Management

WHY LGX FIBER OPTIC SHELVES?

The LGX Combination Unit is a versatile system of optical cable management boxes, which can be configured in many ways. Mix and match adapter panels to configure your system with LC, SC or ST® type adapters. The pre-assembled system allows for rapid frame mounting, the elimination of a cable entry transition box (proper fire ratings must apply) and removes infield assembly work. Contact OFS to help with pre-assembled configurations which speed installation time.

LGX® Fiber Optic Shelves - LightGuide Cross-Connect *Continued*

SMART CODING SCHEME

EXAMPLE:

LSC2W-012-05-WHT-SCU-LT1B-FF-PT - LSC, UMA adapters, AllWave® FLEX ZWP Single-Mode Fiber, 12 Fibers, 5-inch shelf height, white shelf, SCU connectors, equipped with LT1B splice tray, single fusion pigtailed

LSC a b - ccc - dd - eee - ffff - gggg - hh - ii

a = Adapter Type

- 0 = None
- 1 = Standard 1-piece
- 2 = Universal Modular Adapter (UMA)

b = Fiber Type

- B = Blue Tiger® Single-Mode Optical Fiber
- W = AllWave FLEX ZWP SM Optical Fiber
- A = AllWave ZWP Single-Mode Optical Fiber
- M = 50 µm Multimode Optical Fiber
- L = 62.5 µm Multimode Optical Fiber
- I = Laser Optimized 62.5 µm Multimode Optical Fiber
- G = LaserWave® G+ Multimode Optical Fiber
- Z = LaserWave 300 Multimode Optical Fiber
- F = LaserWave 500 Multimode Optical Fiber
- E = LaserWave 600 Multimode Optical Fiber
- T = TrueWave® Multimode Optical Fiber

ccc = Fiber Count

dd = Shelf Height (in inches)

eee = Shelf Color

- WHT = White
- BLK = Black

ffff = Connector Type

- LCA = LC Angle Polish
- LCU40 = LC Angle Polish 40° Boot
- LCA40 = LC Ultra Polish 40° Boot
- LCU = LC Ultra Polish
- SCA = SC Angle Polish
- SCU = SC Ultra Polish
- STP = ST2 Pull Proof
- FCA = FC Angle Polish
- FCU = FC Ultra Polish
- UNC = UNConnectorized

gggg = Splice Tray

- LT1B = Equipped with Tray
- Blank = No Tray

hh = Fusion Type

- FF = Single Fusion
- MF = Mass Fusion

ii = Fiber Construction

- PT = Pigtail
- FO = Fanout (Ribbon)

ORDERING INFORMATION

Description	Comcode
Blank Shelves	
LSC00-024-05-WHT SHELF	106455355
LSC00-024-05-WHT-LT1B-FF	300519279
LSC00-072-12-WHT SHELF	105335822
LSC00-072-12-WHT-(1)-LT1B-MF	300517232
LSC00-144-14-WHTSHELF	300447125
LSC00-144-21-WHT SHELF	105335798
Shelves with Standard 1-Piece Adapters	
LSC1L-048-12-WHT-SCU-LT1B-FF-PT	300558558
LSC1S-012-05-WHT-FCU-LT1B-FF(SM/MM)	300565702
LSC1S-024-05-WHT-FCU(SM/MM)	300467495
LSC1S-024-05-WHT-FCU-LT1B-FF(SM/MM)	300551082
LSC1S-024-05-WHT-LCU-LT1B-FF	301025003
LSC1S-024-05-WHT-SCU(SM)	300506813
LSC1S-144-14-WHT-SCU-LT1B-FF	300533445
LSC1S-144-21-WHT-SCU-LT1B-FF	108248303
LSC1W/L-24/12-12-WHT-SCU-LT1B-FF-PT	300558541
LSC1W-006-05-WHT-SCA-LT1B-FF-PT	300523743
LSC1W-012-05-WHT-LCU-LT1B-FF-PT	300468071
LSC1W-024-05-WHT-FCU-LT1B-FF-PT	300497872
LSC1W-024-05-WHT-SCU-LT1B-FF-PT	300525300
LSC1W-024-05-WHT-LCU-LT1B-FF-PT	300583077
LSC1W-024-05-WHT-STP-LT1B-FF-PT	300530540
LSC1W-048-12-WHT-SCU-LT1B-FF-PT	300529906
LSC1W-072-12-WHT-SCU-LT1B-FF-PT	300529021
LSC1W-072-12-WHT-STP-LT1B-FF-PT	300432671
LSC1W-096-12-WHT-SCU-LT1B-FF-PT	300537503

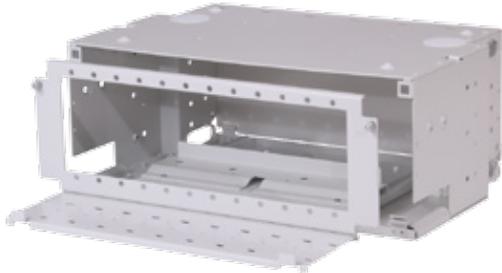
LGX® Fiber Optic Shelves - LightGuide Cross-Connect *Continued*

ORDERING INFORMATION <i>CONTINUED</i>	
Description	Comcode
Shelves with Standard 1-Piece Adapters Continued	
LSC1W-120-14-WHT-SCU-LT1B-FF-PT	300553179
LSC1W-144-14-WHT-SCU-LT1B-FF-PT	300558434
LSC1W-144-19-WHT-SCU-LT1B-MF-FO	300521150
LSC1W-288-23-WHT-LCU-LT1B-MF-FO	300484946
LSC1W-288-25-WHT-LCA-LT1B-FF-FO	300536448
LSC1W-432-49-WHT-SCU-LT1B-MF-FO	300567187
LSC1W-864-63-WHT-LCU-LT1B-MF-FO	109031245
LSC1W-864-74-WHT-LCA-LT1B-FF-FO	300386943
LSC1W-864-74-WHT-LCU-LT1B-FF-FO	300525482
Shelves with Universal Modular Adapters (UMAs)	
LSC2S-024-05-WHT-SCU(SM)	300447117
LSC2S-024-05-WHT-SCU-LT1B-FF	108248287
LSC2S-048-12-WHT-SCU-LT1B-FF	300517240
LSC2S-072-12-WHT-SCU-LT1B-FF	108248295
LSC2W-012-05-WHT-SCA-LT1B-FF-PT	300495785
LSC2W-012-05-WHT-SCU-LT1B-FF-PT	300439080
LSC2W-012-05-WHT-STU-LT1B-FF-12PT(6CAPS)	107075004
LSC2W-024-05-WHT-SCA-LT1B-FF-PT	300530854
LSC2W-024-05-WHT-SCU-LT1B-FF-PT	300439775
LSC2W-024-05-WHT-SCU-LT1B-FF-PT(60INBF)	300474848
LSC2W-024-05-WHT-SCU-LT1B-MF-FO	108844382

Description	Comcode
Shelves with Universal Modular Adapters (UMAs) Continued	
LSC2W-024-12-WHT-SCU-LT1B-MF-FO	300411253
LSC2W-036-12-WHT-SCU-LT1B-FF-PT	300426236
LSC2W-048-12-WHT-SCA-LT1B-FF-PT	300530862
LSC2W-048-12-WHT-SCU-LT1B-FF-FO,1pkSS	300421120
LSC2W-048-12-WHT-SCU-LT1B-FF-PT	300514098
LSC2W-048-12-WHT-SCU-LT1B-MF-FO	300411246
LSC2W-072-12-WHT-SCU-LT1B-FF-FO	300423591
LSC2W-072-12-WHT-SCU-LT1B-FF-PT	300441359
LSC2W-072-12-WHT-SCU-LT1B-MF-FO	108851965
LSC2W-096-12-WHT-SCU-LT1B-FF-FO	300426913
LSC2W-096-12-WHT-SCU-LT1B-FF-PT	300440757
LSC2W-096-16-WHT-SCU-LT1B-FF-PT	300517851
LSC2W-144-14-WHT-SCU-LT1B-FF-PT	300468402
LSC2W-144-14-WHT-SCU-LT1B-MF-FO	108949322
LSC2W-144-21-WHT-SCU-LT1B-MF-FO	300519519
LSC2W-216-28-WHT-SCU-LT1B-MF-FO	300386901
LSC2W-288-25-WHT-SCA-LT1B-FF-FO	300410305
LSC2W-288-25-WHT-SCU-LT1B-MF-FO	300399037
LSC2W-288-27-WHT-SCU-LT1B-FF-FO	300459369
LSC2W-432-49-WHT-SCU-LT1B-MF-FO	108298829
LSC2W-864-63-WHT-SCU-LT1B-MF-FO	108617481

LGX® Fiber Management Termination Shelves

High-Density Frame Mount Fiber Access Units



7" Front Access Shelf



7" Termination Shelf



7" Termination Shelf shown equipped with adapters
Shelves are sold with and without adapters
(see Ordering Guide)

PRODUCT DESCRIPTION

The OFS LGX Fiber Management Termination Shelves, regarded as the original fiber frame solution, are used to complete existing 19" or 23" fiber frame installations. Available in 7" and 9" high versions, the LGX termination shelves can be combined to create "design specific" solutions and meet your application needs. They can also hold many of the standard industry adapter types like the LC, SC, ST, and FC.

FEATURES AND BENEFITS

- Indoor fiber management
- Mount in 19" or 23" frame installations
- Universal frame/wall mount brackets included
- Fiber management rings included
- Front and rear door access
- Front access shelves are available in 7" and 9" shelves
- Key lock door available
- Fiber jumper management
- Splitter management capable
- WDM management capable
- 7" Shelves use 1000 series panels
- 9" Shelves use 1200 series panels
- White and black color options on all shelves

ATTRIBUTES

- 7" Shelf: 17" W x 11.5" D x 7" H
5 lbs empty weight/9 lbs shipping weight
- 9" Shelf: 17" W x 11.5" D x 9" H
9 lbs empty weight/13 lbs shipping weight
- Alluminum alloy sheet 0.09" (2.28 mm) thick
- Powder coated paint
- Common key locks available

WHY LGX FIBER MANAGEMENT TERMINATION SHELVES?

The LGX Shelf System is a versatile system of optical cable management boxes, which can be configured in many ways. Load these units with terminated cables or combine shelves with splice units. Mix and match adapter panels to configure your shelves with LC, SC, and ST type adapters. Contact OFS to help with pre-assembled configurations which speed installation time.

LGX® Fiber Management Termination Shelves *Continued*

ORDERING INFORMATION				
Product Code	Comcode	Shelf Height (inches)	Adapter Type Installed	Adapter Count
Empty Termination Shelves				
LST1F-07-WHT SHELF	106191695	7		
LST1F-09-WHT SHELF	300429636	9		
LST1U-07-BLK SHELF	109182303	7		
LST1U-07-WHT SHELF	105335871	7		
LST1U-09- BLK SHELF	108875998	9		
LST1U-09-WHT SHELF	107535569	9		
Termination Shelves Equipped with Panels and/or Adapters				
LST1F-072-07- WHT-LCU/LCA (60/12)	300570751	7	LCU (60) LCA (12)	72
LST1U-036-07- WHT-C3000A-2 ST (SM)	300585569	7	ST SM C3000A-2	36
LST1U-072-07- WHT-12-1000ST1	107075160	7	only panels	72
LST1U-072-07- WHT-C2000A-2 ST (MM)	107640609	7	ST MM C2000A-2	72
LST1U-072-07- WHT-C3000A-2 ST (SM)	107525131	7	ST SM C3000A-2	72
LST1U-072-07- WHT-FC ADPTRS (SM/MM)	300536091	7	FC SM/MM	72
LST1U-072-07- WHT-LC SIMPLEX ADPTRS (SM)	109062059	7	LC SM Simplex C1101A-1	72
LST1U-072-07- WHT-SC (SM)	106500614	7	SC SM C6000A-4	72
LST1U-072-07- WHT-SC Pnl Recessed (panel is bent to give front door relief when using attenuators)	300414224	7	SC SM C6000A-4	72
LST1U-072-07- WHT-SCA C-6800A-4	301015970	7	SCA C6800A-4	72
LST1U-072-07- WHT-ST SM A3072	301015111	7	ST SM A3072 UMA	72
LST1U-096-07 WHT-SC (MM)	300560117	7	SC MM C6001A-4	96
LST1U-096-07- WHT-C2000 ST (MM)	107933251	7	ST MM C2000A-2	96
LST1U-096-07- WHT-C3000A-2 ST (SM)	300573722	7	ST SM C3000A-2	96
LST1U-096-07- WHT-SC (SM)	109136119	7	SC SM C6000A-4	96
LST1U-096-07- WHT-SCA C-6800A-4	300498896	7	SCA C6800A-4	96
LST1U-144-09-BLK-SCA ADPTRS (SM)	301014916	9	SCA C6800A-4	144
LST1U-144-09- WHT-LC SM SMLPX ADPTRS	109086090	9	LC SM Simplex C1101A-1	144
LST1U-144-09- WHT-SC (SM)	107871337	9	SC SM C6000A-4	144
LST1U-144-09- WHT-SCA ADPTRS (SM)	300580396	9	SCA C6800A-4	144
LST1U-144-09- WHT-ST ADPTRS (MM)	108363813	9	ST MM A2000A-2	144
LST1U-144-09- WHT-ST ADPTRS (SM)	108363722	9	ST SM A3000A-2	144
LST2U-048-07- WHT-SC A3063	300411469	7	SCU A3063 UMA	48
LST2U-072-07 WHT-SC/FC A3083	300584778	7	SC/FC A3083 UMA	72
LST2U-072-07- WHT-72-A3002 (ST BASE)	108632019	7	ST Base only	72
LST2U-072-07- WHT-72-A3003 (SC BASE)	109106153	7	SC Base only	72

LGX® Fiber Management Termination Shelves *Continued*

ORDERING INFORMATION FOR LGX® FIBER MANAGEMENT TERMINATION SHELVES <i>CONTINUED</i>				
Product Code	Comcode	Shelf Height (inches)	Adapter Type Installed	Adapter Count
<i>Termination Shelves Equipped with Panels and/or Adapters <i>Continued</i></i>				
LST2U-072-07- WHT-ST/SC A3062	301006078	7	ST/SC SM A3062 UMA	72
LST4U-072-07- WHT-36-LC LP DPLX ADPTRS (SM)	301006672	7	LC SM Duplex C1104A-2	72
LST4U-108-07- WHT-LC MM C1004B-2	301006623	9	LC MM C1004B-2	108
LST4U-144-07- WHT-LC SM DPLX ADPTRS	301006680	9	LC SM Duplex C1104A-2	144
LST4U-192-07- WHT-LC MM C1004A-2	301009684	9	LC MM C1004B-2	192
LST4U-288-07-BLK LC DPLX	301012399	9	LC SM Duplex	288
* LST1U Standard Patch Panel which allows jumpers in the front and cable entry in the rear LST1F Front Access Shelf where the panel folds out to provide access to the front				

Product Code	Comcode	Shelf Size (inches)	Adapter Type Installed	Ports/ Panel
<i>Panel</i>				
1000FC1-6 E/W ADAPTERS	106225923	7	FC (SM/MM)	6
1000LC-6 E/W SMPLEX (SM)	300517497	7	LC	6
1000LCA-6 E/W SIMPLEX (SM)	300398443	7	LCA	6
1000SC1-8 E/W SC (SM)	107187650	7	SC	8
1000SC1-6 E/W SC (SM)	106500630	7	SC	6
1000SC1-6 E/W SC SM OFF CENTER	300410420	7	SC (A3063)	6
1000SCA-6 E/W (A3863)	300407137	7	SCA (A3863)	6
1000ST1-6 E/W ST (SM)	106500622	7	ST (SM)	6
1000ST1-8 E/W ST (SM)	107187643	7	ST (SM)	8
PNL 7" EW SM/C12LC BLUE	109171785	7	LC Ganged	12
PNL 7" EW SM/C6SC BLUE	109171793	7	SC Ganged	6
PNL 7" EW SM/C6ST BLUE	109171801	7	ST Ganged	6
1200SC1-12 E/W SC (SM)	107719049	9	SC	12
1200ST1-12 E/W ST (SM)	107723439	9	ST (SM)	12

Product Code	Comcode	Description
<i>Accessories for Termination Shelf</i>		
12A1 Clamp	104384490	Metallic Sheath Cable Clamp
12A2 Clamp	106230337	Dielectric Sheath Cable Clamp
12A1 Clamp w/o strap	301006888	Metallic Sheath Cable Clamp without the ground strap
12A3L Clamp	108527433	Metallic and Dielectric Cables .25" to 1.5" up to 864 Cable OFS
S1-1X2-1315-SCA-S-BAL-F	300387610	Balanced 1X2 splitter with SCA input and output
S1-1X4-1315-LCA-S-BAL-F	300387214	Balanced 1X4 splitter with LCA input and output
S1-1X16-FULL-MPO/SCA-S-BAL-F	300574191	Balanced 1X16 splitter with SCA input and MPO output



For complete information on products shown in this guide,
please refer to the official data sheets for those products
on the OFS website at www.ofsoptics.com.

For additional information please contact your sales representative.
Call 1-888-FIBER-HELP (1-888-342-3743) from inside the USA
or +1-770-798-5555 from outside the USA.
EMEA Specific: +49 (0) 228 7489 201

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