TCORS
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November 20, 2026

Via Electronic Filing
Jeffrey R. Gaudiosi, Esq.
Executive Secretary
Public Utilities Regulatory Authority
10 Franklin Square
New Britain, CT 06051

Re: Docket No. 26-09-20
Application of Fiber AssetCo, LLC d/b/a Zayo for Authorization to Install Additional Facilities Under and Over Certain Public Rights-of-Way
Motion No. 2

Dear Mr. Gaudiosi:

Enclosed please find the following items submitted in connection with the above-referenced docket:

- An Application by Fiber AssetCo, LLC d/b/a Zayo for Authorization to Install Additional Facilities in the Public Rights-of-Way ("Application" or "Motion No. 2"), a Non-Proprietary version of Attachment I to that Application, and an original of Attachment II to that Application. This Motion No. 2 is submitted less than 90 days prior to the date planned for the commencement of construction and as such, a waiver of the advance notification requirement is necessary.

- An original of Attachment I to the Application containing street segments, route maps, descriptions or aerial maps has been included in an envelope labeled "Proprietary Material". This information is submitted subject to the terms and conditions of the Protective Order, in accordance with the approved Motion for Protective Order dated October 20, 2026 issued in this docket.

Please contact the undersigned with any questions about this filing.

Very truly yours,



Mark J. Cook, Esq.
Counsel for Fiber AssetCo, LLC d/b/a Zayo

Enclosures
cc: Service List

STATE OF CONNECTICUT
PUBLIC UTILITIES REGULATORY AUTHORITY
Wireline Facilities Installation Application Form

Docket Number: Docket No. 26-09-20
Date: November 20, 2026

Enclosed is the Application for Approval of construction of additional wireline facilities within the Public Right-of-Way (Application). Please note that the Public Utilities Regulatory Authority (Authority) requires all filings to be submitted electronically.

When filing the Application, the following must be provided:

- Electronic: one (1) copy of the Application, including all Attachments.

First-time Applicants must file the Application as a New Docket Application in the Authority's Web Filing System.

Applicants who have previously been approved to construct facilities shall file the Application as a motion in the Applicant's primary wireline attachment docket.

The Authority will make reasonable efforts to issue its Decision regarding the Application no later than 60 days after the Application is accepted.

Instructions regarding electronic filing with the Authority can be found under the following website, https://portal.ct.gov/PURA/About/Filing-and-Forms/Electronic-Filing.

If you need assistance in completing this application or with the application process, please contact the Office of Education, Outreach and Enforcement (EOE) via:

Toll Free Number (in Connecticut) 1-800-382-4586 Toll Number Outside Connecticut 1-860-827-2622 Email: pura.information@ct.gov

Enclosed:
Application

State of Connecticut
Public Utilities Regulatory Authority
10 Franklin Square
New Britain, CT 06051
Phone: (860) 827-1553; Main Fax: (860) 827-2613
http://www.ct.gov/pura

APPLICATION FOR APPROVAL TO INSTALL FIBER FACILITIES

A. APPLICANT INFORMATION:

The term "Applicant" refers to the Certificate of Public Convenience and Necessity (CPCN) holder. Applicant must obtain a Connecticut CPCN prior to submitting this Application.

Applicant's information

Name: Fiber AssetCo LLC d/b/a Zayo	*Attn.:* Megan Glander
Address: 1359 Broadway, Suite 1600	
Address: New York, NY 10018	
Phone: 914.456.3981	
Email: megan.glander@zayo.com	

Attorney's information (if any):

Law Firm: Tobin, Carberry, O'Malley, Riley & Selinger, P.C.	*Attn.:* Mark J. Cook, Esq.
Address: 43 Broad Street, P.O. Box 58, New London, Connecticut 06320	
Address:	
Phone: 860.447.0335	
Email: mcook@tcors.com	

B. FACILITY INFORMATION

Provide the following information regarding the Facility:

Purpose and intended use of the Facilities:	The purposes of the proposed Fiber facilities are for Fiber AssetCo LLC d/b/a Zayo ("Fiber AssetCo" or the "Company") to provide services consistent with its final approved tariff supporting carrier-neutral colocation, cloud services, and customized solutions used on both a wholesale and retail basis by a wide variety of public- and private-sector enterprise customers. Fiber AssetCo will install its Fiber facilities within the communications space on utility poles of The Southern New England Telephone Company d/b/a Frontier Communications and either The United Illuminating Company or The Connecticut Light and Power Company d/b/a Eversource Energy and/or within new conduit. Fiber AssetCo has executed pole attachment agreements in place

	with the applicable pole owners for the fiber installations, as applicable.
Miles (or feet) of Cabling:	470 feet
Number of Locations:	1 location total: 1 segment in Danbury, CT-See Attachment I
Proposed construction start date and completion date:	Start Date: December 20, 2026 Completion Date: December 31, 2026
Specifications of cabling (material, size, weight, etc.):	Single-mode, bend-sensitive fiber cabling manufactured by Corning Cable Systems, AFL, Prysmian or ofs. For additional information, please see Attachment II.

C. ATTACHMENTS

(C-1) Provide as **Attachment I**, all names of towns and the corresponding miles of fiber proposed for each town. Submit the locations of proposed fiber facilities on route maps and accompanied by a description (applicant may submit such information subject to a motion for protective order).

(C-2) Provide as **Attachment II,** all technical information and specifications (e.g., National Electrical Safety Code and construction standards) regarding the planned fiber facilities. Indicate whether and how the construction will comply with Conn. Agencies Regs. Sec. 16-247c-5.

D. SIGNATURE

Submitted by,

Applicant's Name: FIBER ASSETCO LLC D/B/A ZAYO



Signature: _____

Name: Mark J. Cook, Esq.
Tobin, Carberry, O'Malley, Riley &
Organization Name: Selinger, P.C.
Address: 43 Broad Street, P.O. Box 58
Address: New London, CT 06320
Phone Number: 860.447.0335
Affiliation with Company: Its Attorneys

ATTACHMENT I

The route description and route map for each of the following proposed installations has been submitted as a confidential and proprietary filing in accordance with the approved Motion for Protective Order dated October 20, 2026 filed in this Docket No. 26-09-20.

ATTACHMENT I

EXHIBIT	TOWN	FEET	PROPOSED START DATE	PROPOSED COMPLETION DATE
1	Danbury	470	12/20/2026	12/31/2026
	Total	470		

APPENDIX II

Fiber AssetCo LLC ("Fiber AssetCo" or the "Company") technical information and specifications (e.g., National Electrical Safety Code and construction standards) regarding the planned fiber facilities for the construction proposed above are as follows. Fiber AssetCo intends to comply with the Regulations of Connecticut State Agencies §16-247c-5 and with all state and local regulations affecting public safety during and after the construction of the facilities. The Company will coordinate its construction activity with local authorities, obtain any necessary municipal permits, and comply with any local safety traffic and control requirements applicable to its activities. In accordance with the Authority's prior decisions, Fiber AssetCo will notify the Authority when it completes construction on the projects listed in Attachment I, Exhibit No. 1. This notification will include the status of any required municipal permits and/or any Permit Bonds required by the State of Connecticut, Department of Transportation.

A. Request for Waiver of the Regulations of Connecticut State Agencies Section 16-247c-5(b) – 90-Day Advanced Filing Requirement

Regulations of Connecticut State Agencies § 16-247c-5(b) requires that applications for approval to construct facilities in the public rights-of-way must be filed with the Authority at least 90 days prior to the commencement of construction. Fiber AssetCo respectfully requests a waiver of that requirement to 29 days of advance notice which would be December 20, 2026. The customer requesting service is in particularly urgent need of the telecommunications services proposed. The purpose of this request for waiver is to ask for the Authority's assistance in expediting construction of this project so that Fiber AssetCo can timely build and provide the advanced telecommunications services to the area indicated in Attachment I. Fiber AssetCo notes that its competitors, Frontier, Verizon and the cable television companies offering services in Connecticut are permitted to install facilities immediately after identifying a network expansion project or receiving a customer order without needing prior Authority authorization.

B. Exemption Request for the General Statutes of Connecticut Section 16-234 Requirements

Pursuant to the Authority's decision in Docket No. 01-08-01 Application of Fiber Technologies Networks, L.L.C. f/k/a Fiber Systems L.L.C. for Approval to Install Facilities Under and Over Certain Public Rights-of-Way – Motion No. 27, dated October 14, 2009, Fiber AssetCo's installation within the public rights-of-way should be considered exempt from the statutory notice and consent provisions of Conn. Gen. Stat. §16-234 ("Notice Requirements"). Since the proposed Fiber installations listed in Attachment I, Exhibit No. 1 do not deviate from the nature of Fibertech's past Fiber installations, Fiber AssetCo's proposed fiber project included in this request should likewise be exempt from the Notice Requirements of Conn. Gen. Stat. §16-234.

C. Request for Expedited Approval

Section 16-247c-5(c) of the Conn. Agencies Regs. states that PURA shall grant or deny an installation application within sixty (60) days of receipt of all required information. Fiber AssetCo respectfully requests that the PURA grant it within twenty-nine (29) days following

receipt of all required information for the many reasons stated in this application including this particular customer's expressed urgent need for telecommunications services.

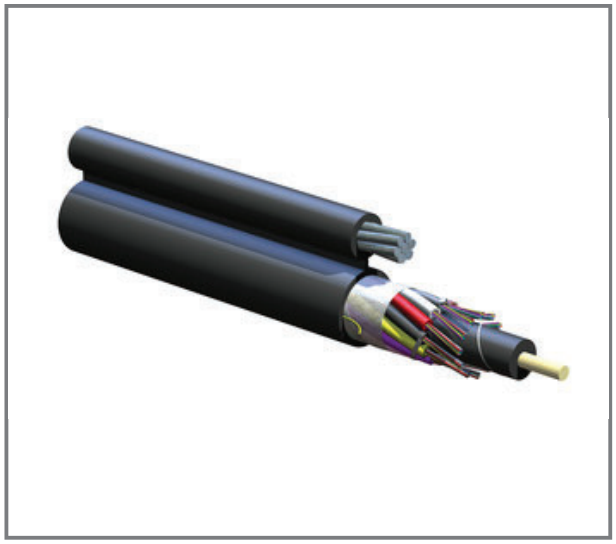
ALTOS® Figure-8 Loose Tube, Gel-Free Cable 144 F, Single-mode (OS2)

CORNING

Part Number:
144EUA-T4101D20

Corning ALTOS® figure-8 gel-free cables are self-supporting aerial cables designed for easy and economical one-step installation. The loose tube design provides stable performance over a wide temperature range and is compatible with any telecommunications-grade optical fiber. The gel-free design is fully waterblocked using craft-friendly water-swellable materials, making cable access simple and requiring no clean up. While the flexible, craft-friendly buffer tubes are easy to route in closures, the SZ-stranded, loose tube design isolates optical fibers from installation and environmental rigors and facilitates mid-span access.

The figure-8 cable design allows easy, one-step installation, using standard hardware and installation methods. These cables have a medium density polyethylene jacket that is rugged, durable and easy to strip.



Features and Benefits

Gel-free waterblocking technology
Craft-friendly cable preparation

Polyethylene jacket
Rugged, durable and easy to strip (while providing superior protection against UV radiation, fungus, abrasion and other environmental factors)

Figure-8 cable design
Easy, one-step installation

ALTOS® Figure-8 Loose Tube, Gel-Free Cable 144 F, Single-mode (OS2)

Specifications

Maximum Span With 1 % Installation Sag	
Maximum Span with 1% Installation Sag, NESC Heavy	140 m
Maximum Span with 1% Installation Sag, NESC Medium	201 m
Maximum Span with 1% Installation Sag, NESC Light	216 m

Mechanical Specifications	
Min. Bend Radius Installation	237 mm
Min. Bend Radius Operation	158 mm
Nominal Cable Height	27.4 mm
Nominal Outer Diameter	15.8 mm

Cable Design	
Central Element	Dielectric
Fiber Count	144
Buffer Tube Color Coding	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Number of Ripcords	1
Outer Jacket Color	Black
Outer Jacket Material	Polyethylene (PE)
Buffer Tube Color	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Buffer Tube Diameter	2.5 mm
Messenger	Stranded steel
Number of Active Tubes	12

ALTOS® Figure-8 Loose Tube, Gel-Free Cable 144 F, Single-mode (OS2)

CORNING

Cable Design

Number of Tube Positions	12
Tape	Water-swellable
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibers per Tube	12

Environmental Conditions

Temperature Range, Installation	-30 °C - 70 °C (-22 °F - 158 °F)
Temperature Range, Storage	-40 °C - 70 °C (-40 °F - 158 °F)
Temperature Range, Operation	-40 °C - 70 °C (-40 °F - 158 °F)

General Specifications

Environment	Outdoor
Cable Type	Loose Tube
Product Type	Self-Supporting
Fiber Category	Single-mode (OS2)
Application	Aerial , Self-Supporting

Ordering Information

Weight	386 kg/km

Standards

RoHS	Free of hazardous substances according to RoHS 2011/65/EU

ALTOS® Figure-8 Loose Tube, Gel-Free Cable 144 F, Single-mode (OS2)

CORNING

Standards	
Common Installations	Outdoor self-supporting aerial
Design and Test Criteria	ANSI/ICEA S-87-640

Optical Characteristics	
Fiber Code	E
Fiber Name	Single-mode (OS2)
Fiber Type	Single-mode
Performance Option Code	01
Maximum Attenuation	0.4 dB/km / 0.4 dB/km / 0.3 dB/km
Wavelengths	1310 nm / 1383 nm / 1550 nm
Fiber Category	G.652.D

RoHS COMPLIANT

Corning Optical Communications LLC • 4200 Corning Place • Charlotte, NC • 28216 • United States
800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/opcomm

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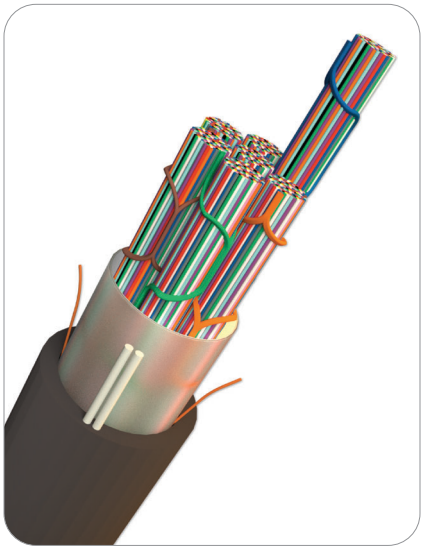


200 µm Wrapping Tube Cable (WTC) with SpiderWeb Ribbon® (SWR®)

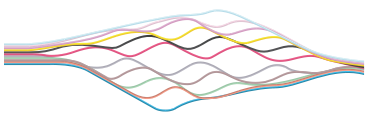
Wrapping Tube Cable (WTC), with SpiderWeb Ribbon® (SWR®), is an ultra-high density outside plant cable designed specifically for fiber-to-the-home (FTTH) or access markets. It is compliant with the latest issue of the outside plant cable standard, Telcordia GR-20. With an ultra-high density and a new ribbon technology called SpiderWeb Ribbon®, WTC provides the smallest cable diameter and lowest weight, high-fiber count ribbon cable in the industry. WTC with SWR® cables are available in fiber counts of 1,728, 3,456 and 6,912.

SWR® is a bonded fiber ribbon design allowing for either a highly efficient ribbon splicing or an individual fiber breakout splicing process. This flexibility allows for a single cable design to cover a diverse set of applications from access networks to high-fiber count mass fusion splicing. With the ability to roll and conform, the SWR® provides for ultra-high density packaging in the WTC.

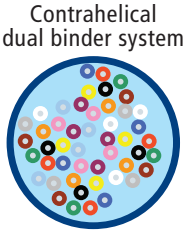
Features

- **Access Ready Construction (ARC)**
  Completely gel-free construction with easy-to-access and identify optical fiber circuits.
- **SpiderWeb Ribbon® (SWR®) optical fiber technology**
  Easily ribbonized for mass fusion splicing. SWR® is compacted and routed like individual fibers. Ideal for organizing slack loops in splice enclosures as there is no preferential bending of ribbon.
- **Significantly higher fiber density compared to traditional ribbon cables**
  Offers ability to expand capacity of existing pathways and allows use of smaller, lower cost duct systems.
- **Smaller cable diameters and cable weights**
  Means longer reel lengths that allow for lower scrap rates, easier handling of reels at the site and reduced transportation costs.
- **Completely dry water-blocking technology**
  Reduces time required to prep cable-end and mid-span access resulting in labor savings.
- **Compact ribbon bundles**
  Reduces enclosure/splice tray size requirements allowing for smaller telecommunications space allocation.
- **Non-armored packages**
  Supports all the standard cable deployment options typically found in the OSP environment including duct, non-armored only.
- **Fully qualified to Telcordia GR-20**
  Provides assurance that the cable will support optical fiber network transport functions now and into the future.

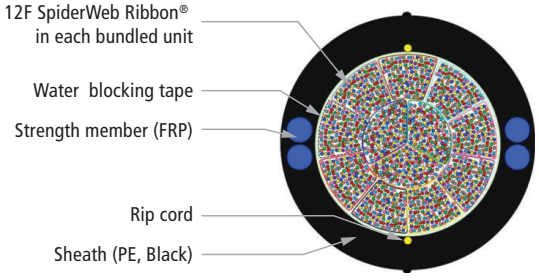
ARC SWR® Technology



12F SWR®



Multiple 12F SWR® Bundle



Non-armored
(1,728F, 3,456F and 6,912F)

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Specifications are subject to change without notice.

200 µm Wrapping Tube Cable (WTC) with SpiderWeb Ribbon® (SWR®)

Temperature Specifications

OPERATION	-40°F to +158°F (-40°C to +70°C)
STORAGE	-40°F to +158°F (-40°C to +70°C)
INSTALLATION	-22°F to +140°F (-30°C to +60°C)

Mechanical Data—Non-Armored

DESCRIPTION	FIBER COUNT	BINDER UNIT	NOMINAL DIAMETER	WEIGHT	SHORT TERM / INSTALLATION		LONG TERM / STORAGE /STATIC	
			INCHES (MM)	LBS/1,000 FT (KG/KM)	MAX TENSILE LOAD LBS (N)	MIN BEND RADIUS INCHES (MM)	MAX TENSILE LOAD LBS (N)	MIN BEND RADIUS INCHES (MM)
LWSE-1728-BE-C-144-12-00N1D	1,728	12 X 144F	0.85 (21.5)	202 (300)	607 (2700)	17 (432)	182 (810)	13 (330)
LWSE-3456-BE-144-24-00N1D	3,456	24 X 144F	1.041 (26.5)	292 (435)	607 (2700)	21 (530)	182 (810)	16 (397)
LWSE-6912-BE-288-24-00N1D	6,912	24 X 288F	1.378 (35.0)	514 (765)	607 (2700)	28 (700)	182 (810)	21 (525)

200 µm Optical Fiber

FIBER COUNT	FIBER DESIGNATOR	MFD	MAXIMUM ATTENUATION (CABLED) dB/km		
			1310 NM	1383 NM	1550 NM
1,728	BE (ITU-T G.652.D and G.657.A1)	8.6 ± 0.4 µm	0.4 dB/km	0.4 dB/km	0.3 dB/km
3,456	BE (ITU-T G.652.D and G.657.A1)	8.6 ± 0.4 µm	0.4 dB/km	0.4 dB/km	0.3 dB/km
6,912	BE (ITU-T G.652.D and G.657.A1)	8.6 ± 0.4 µm	0.4 dB/km	0.4 dB/km	0.3 dB/km

Stripe Ring Fiber Identification—1,728

R NO.	STRIPE RING MARKING	R NO.	STRIPE RING MARKING
1		7	
2		8	
3		9	
4		10	
5		11	
6		12	

Stripe Ring Fiber Identification—3,456

R NO.	STRIPE RING MARKING	R NO.	STRIPE RING MARKING
1		7	
2		8	
3		9	
4		10	
5		11	
6		12	

Stripe Ring Fiber Identification—6,912

R NO.	STRIPE RING MARKING	R NO.	STRIPE RING MARKING	R NO.	STRIPE RING MARKING	R NO.	STRIPE RING MARKING
1		7		13		19	
2		8		14		20	
3		9		15		21	
4		10		16		22	
5		11		17		23	
6		12		18		24	

FIBER COUNT	BINDER UNIT (BU)		RING MARKINGS
1,728F	12 Binder Units	1 2 3 4 5 6 7 8 9 10 11 12	
3,456F	24 Binder Units	1 2 3 4 5 6 7 8 9 10 11 12	1-12 Ring Marking
		13 14 15 16 17 18 19 20 21 22 23 24	1-12 Ring Marking
6,912F	24 Binder Units	1 2 3 4 5 6 7 8 9 10 11 12	1-24 Ring Marking
		13 14 15 16 17 18 19 20 21 22 23 24	1-24 Ring Marking

*For binder units 13-24, the second binder unit is clear

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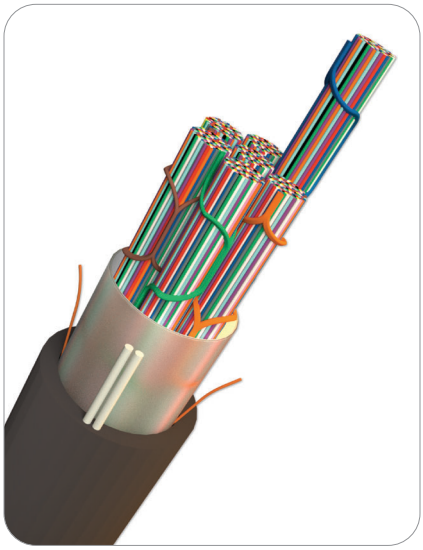


250 µm Wrapping Tube Cable (WTC) with SpiderWeb Ribbon® (SWR®)

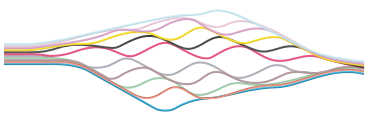
Wrapping Tube Cable (WTC), with SpiderWeb Ribbon® (SWR®), is an ultra-high density outside plant cable designed specifically for fiber-to-the-home (FTTH) or access markets. It is compliant with the latest issue of the outside plant cable standard, Telcordia GR-20. With an ultra-high density and a new ribbon technology called SpiderWeb Ribbon®, WTC provides the smallest cable diameter and lowest weight, high-fiber count ribbon cable in the industry. WTC with SWR® cables are available in fiber counts from 144 to 3,456.

SWR® is a bonded fiber ribbon design allowing for either a highly efficient ribbon splicing or an individual fiber breakout splicing process. This flexibility allows for a single cable design to cover a diverse set of applications from access networks to high-fiber count mass fusion splicing. With the ability to roll and conform, the SWR® provides for ultra-high density packaging in the WTC.

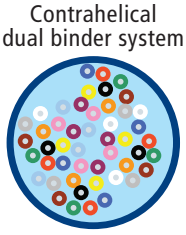
Features

- **Access Ready Construction (ARC)**
  Completely gel-free construction with easy-to-access and identify optical fiber circuits.
- **SpiderWeb Ribbon® (SWR®) optical fiber technology**
  Easily ribbonized for mass fusion splicing. SWR® is compacted and routed like individual fibers. Ideal for organizing slack loops in splice enclosures as there is no preferential bending of ribbon.
- **Significantly higher fiber density compared to traditional ribbon cables**
  Offers ability to expand capacity of existing pathways and allows use of smaller, lower cost duct systems.
- **Smaller cable diameters and cable weights**
  Means longer reel lengths that allow for lower scrap rates, easier handling of reels at the site and reduced transportation costs.
- **Completely dry water-blocking technology**
  Reduces time required to prep cable-end and mid-span access resulting in labor savings.
- **Compact ribbon bundles**
  Reduces enclosure/splice tray size requirements allowing for smaller telecommunications space allocation.
- **Armored and non-armored packages**
  Supports all the standard cable deployment options typically found in the OSP environment including, duct, direct buried and aerial.
- **Fully qualified to Telcordia GR-20**
  Provides assurance that the cable will support optical fiber network transport functions now and into the future.

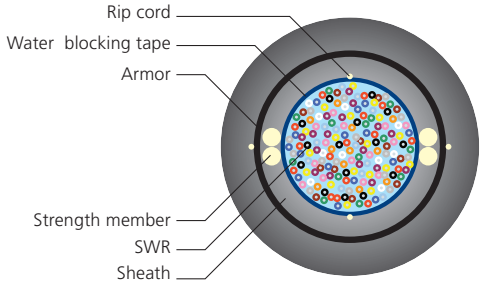
ARC SWR® Technology



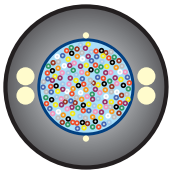
12F SWR®



Multiple 12F SWR® Bundle



Armored
(144F - 1,728F)



Non-armored
(144F - 3,456F)

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Specifications are subject to change without notice.

250 µm Wrapping Tube Cable (WTC) with SpiderWeb Ribbon® (SWR®)

Temperature Specifications

TEMPERATURE RANGE	
OPERATION	-40°F to +158°F (-40°C to +70°C)
STORAGE	-40°F to +158°F (-40°C to +70°C)
INSTALLATION	-22°F to +140°F (-30°C to +60°C)

Mechanical Data—Non-Armored

DESCRIPTION	FIBER COUNT	BINDER UNIT	NOMINAL DIAMETER	WEIGHT	SHORT TERM / INSTALLATION		LONG TERM / STORAGE /STATIC	
			INCHES (MM)	LBS/1,000 FT (KG/KM)	MAX TENSILE LOAD LBS (N)	MIN BEND RADIUS INCHES (MM)	MAX TENSILE LOAD LBS (N)	MIN BEND RADIUS INCHES (MM)
LWSE-144-9-C-144-1-00N1D	144	1 X 144F	0.41 (10.5)	57 (85)	607 (2700)	9 (229)	182 (810)	6 (158)
LWSE-288-9-C-72-4-00N1D	288	4 X 72F	0.47 (12.0)	71 (105)	607 (2700)	10 (254)	182 (810)	7 (180)
LWSE-432-9-C-72-6-00N1D	432	6 X 72F	0.53 (13.5)	91 (135)	607 (2700)	11 (270)	182 (810)	8 (203)
LWSE-576-9-C-72-8-00N1D	576	8 X 72F	0.59 (15.0)	111 (165)	607 (2700)	12 (300)	182 (810)	9 (225)
LWSE-864-9-C-72-12-00N1D	864	12 X 72F	0.69 (17.5)	145 (215)	607 (2700)	14 (350)	182 (810)	11 (279)
LWSE-1152-K-C-144-8-00N1D	1152	8 X 144F	0.73 (18.5)	161 (240)	607 (2700)	15 (370)	182 (810)	11 (279)
LWSE-1728-K-C-144-12-00N1D	1728	12 X 144F	0.91 (23.0)	242 (360)	607 (2700)	18 (460)	182 (810)	14 (345)
LWSE-3456-K-C-144-24-00N1D	3456	24 X 144F	1.20 (30.5)	403 (600)	607 (2700)	24 (610)	182 (810)	18 (458)

Mechanical Data—OSP Armored

DESCRIPTION	FIBER COUNT	BINDER UNIT	NOMINAL DIAMETER	WEIGHT	SHORT TERM / INSTALLATION		LONG TERM / STORAGE /STATIC	
			INCHES (MM)	LBS/1,000 FT (KG/KM)	MAX TENSILE LOAD LBS (N)	MIN BEND RADIUS INCHES (MM)	MAX TENSILE LOAD LBS (N)	MIN BEND RADIUS INCHES (MM)
LWSE-144-9-C-144-1-10S1D	144	1 X 144F	0.63 (16.0)	148 (220)	607 (2700)	13 (320)	182 (810)	10 (254)
LWSE-288-9-C-72-4-10S1D	288	4 X 72F	0.69 (17.5)	172 (255)	607 (2700)	14 (350)	182 (810)	11 (279)
LWSE-432-9-C-72-6-10S1D	432	6 X 72F	0.75 (19.0)	202 (300)	607 (2700)	15 (380)	182 (810)	11 (285)
LWSE-576-9-C-72-8-10S1D	576	8 X 72F	0.81 (20.5)	235 (350)	607 (2700)	16 (410)	182 (810)	12 (308)
LWSE-864-9-C-72-12-10S1D	864	12 X 72F	0.91 (23.0)	286 (425)	607 (2700)	18 (460)	182 (810)	14 (345)
LWSE-1728-K-C-144-12-10S1D	1728*	12 X 144F	1.14 (29.0)	410 (610)	607 (2700)	23 (580)	182 (810)	17 (435)

* **NOTE:** Modified temperature performance

Optical Fiber

FIBER COUNT	FIBER DESIGNATOR	MFD	MAXIMUM ATTENUATION (CABLED) dB/km		
			1310 NM	1383 NM	1550 NM
144, 288, 432, 576, 864	9 (ITU-T G.652D/G.657.A1)	9.2 ± 0.4 µm	≤0.40	≤0.40	≤0.30
1152, 1728, 3456	K (ITU-T G.652D/G.657.A1)	8.6 ± 0.4 µm	≤0.40	≤0.40	≤0.30

Stripe Ring Fiber Identification

R NO.	STRIPE RING MARKING	R NO.	STRIPE RING MARKING
1		7	
2		8	
3		9	
4		10	
5		11	
6		12	

FIBER COUNT	BINDER UNIT (BU)												RING MARKINGS
144F	No Binder Unit												1-12 Ring Marking
288F	4 Binder Units	1	2	3	4								1-6 Ring Marking
432F	6 Binder Units	1	2	3	4	5	6						
576F	8 Binder Units	1	2	3	4	5	6	7	8				
864F	12 Binder Units	1	2	3	4	5	6	7	8	9	10	11	12
1152F	8 Binder Units	1	2	3	4	5	6	7	8				1-12 Ring Marking
1728F	12 Binder Units	1	2	3	4	5	6	7	8	9	10	11	12	1-12 Ring Marking
3456F	24 Binder Units	1	2	3	4	5	6	7	8	9	10	11	12	1-12 Ring Marking
		13	14	15	16	17	18	19	20	21	22	23	24	1-12 Ring Marking

*For binder units 13-24, the second binder unit is clear

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Specifications are subject to change without notice.

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ExpressLT™ Gel Free Loose Tube | Indoor-Outdoor

Indoor-Outdoor Riser and Plenum Cables



MANUFACTURED IN THE USA/CANADA
Prysmian Group

Versatile Indoor-Outdoor flame rated fiber cables - ideal for interbuilding and building transition applications

Overview

Prysmian's Indoor-Outdoor Gel-Free Loose Tube riser or plenum designs provide flame-rated network solutions for a diverse number of network applications. These cables combine flexible gel-free buffer tubes and swellable water blocking materials with Prysmian's extensive portfolio of single-mode and multimode optical fibers. Incorporating proven outside plant design elements, this cable may be employed in outdoor aerial lashed, duct, and direct buried environments.

Because of its application diversity, this advanced product eliminates the necessity and expense for traditional cable transition points once required in legacy systems. Cost savings and system long term reliability are achieved by enabling cable placement virtually anywhere in the network.

Product Snapshot

Applications	Multi-purpose Indoor-Outdoor Aerial Lashed, Duct, & Direct Buried
Constructions	Dielectric (single & dual jacket), ezPREP® Corrugated Armor, Interlock Armor
Flame Ratings	Riser (OFNR / OFCR / FT4) / Plenum (OFNP/OFCP/FT6)
Fiber Count	2 to 288 (Riser) / 2-144 (Plenum)
Fiber Types	Single-Mode (ESMF, BendBright®, Bend Bright-XS®) Multimode (62.5/125-OM1, 50/125-MaxCap-BB-OM2+, OM3 & OM4)
Standards	TIA/EIA-568, ANSI/ICEA S-83-596, ANSI/ICEA S-104-696, UL-1666, NFPA 262, CSA 22.2 No 230, Telcordia GR-409, Telcordia GR-20, RoHS Compliant

Features and Benefits

- Fiber identification using TIA standardized color coding
- Gel-Free buffer tubes simplifies access and reduces prep time
- Flame-retardant, black UV-resistant outer jacket
- Flexible kink-resistant buffer tubes for routing and storage
- Available with bend-insensitive single-mode and multimode optical fibers
- Interlock armor designs available for added durability
- Will support all high performance networks including OM4/10 Gigabit Ethernet systems

RoHS
COMPLIANT

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ExpressLT™ Gel Free Loose Tube | Indoor-Outdoor

Indoor-Outdoor Riser and Plenum Cables

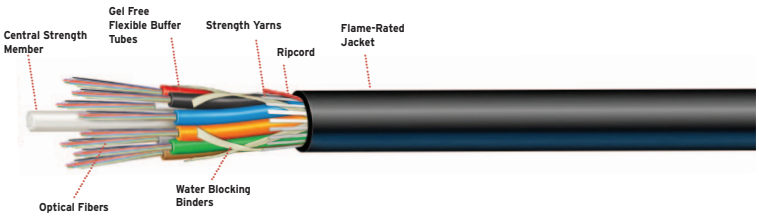
ExpressLT™ I/O Riser Dielectric (Single Jacket - gel-free) DRLDB Series | OFNR / FT4

Fiber Count	# Buffer Tubes Outer/Inner Layer	Fibers per Unit or # of Units	Diameter Inches (mm)	Cable Weight lb/kft (kg/km)	Bend Radius Load Inches (cm)	Bend Radius No Load Inches (cm)
2 to 60	5	12	0.40 (10.1)	63 (93)	8.0 (20.2)	4.0 (10.1)
62 to 72	6	12	0.43 (10.8)	69 (102)	8.6 (21.7)	4.3 (10.9)
74 to 84	7	12	0.47 (12.0)	85 (126)	9.5 (24.0)	4.8 (12.0)
86 to 96	8	12	0.50 (12.8)	96 (143)	10.1 (25.6)	5.1 (12.8)
98 to 108	9	12	0.55 (13.9)	114 (169)	11.0 (27.8)	5.5 (13.9)
110 to 120	10	12	0.57 (14.5)	123 (183)	11.4 (29.0)	5.7 (14.5)
122 to 132	11	12	0.60 (15.4)	139 (207)	12.1 (30.8)	6.1 (15.4)
134 to 144	12	12	0.64 (16.3)	158 (234)	12.9 (32.7)	6.5 (16.4)
146 to 216	12 / 6	12	0.67 (17.0)	153 (228)	13.5 (34.1)	6.8 (17.1)
218 to 264	14 / 8	12	0.73 (18.6)	184 (273)	14.7 (37.3)	7.4 (18.7)
266 to 288	15 / 9	12	0.78 (19.7)	205 (305)	15.6 (39.5)	7.8 (19.8)

ExpressLT™ I/O Riser Dielectric (Double Jacket - gel-free) DRLDC Series | OFNR / FT4

Fiber Count	# Buffer Tubes Outer/Inner Layer	Fibers per Unit or # of Units	Diameter Inches (mm)	Cable Weight lb/kft (kg/km)	Bend Radius Load Inches (cm)	Bend Radius No Load Inches (cm)
2 to 60	5	12	0.52 (13.2)	114 (169)	10.4 (26.4)	5.2 (13.2)
62 to 72	6	12	0.55 (13.9)	123 (183)	11.0 (27.9)	5.5 (14.0)
74 to 84	7	12	0.59 (15.1)	144 (214)	11.9 (30.2)	6.0 (15.1)
86 to 96	8	12	0.63 (15.9)	159 (237)	12.6 (31.8)	6.3 (15.9)
98 to 108	9	12	0.67 (17.0)	181 (270)	13.4 (34.0)	6.7 (17.0)
110 to 120	10	12	0.69 (17.6)	194 (288)	13.9 (35.2)	7.0 (17.6)
122 to 132	11	12	0.73 (18.5)	214 (318)	14.6 (37.0)	7.3 (18.5)
134 to 144	12	12	0.76 (19.4)	237 (352)	15.3 (38.9)	7.7 (19.5)

Note. Cable damage may occur if installation temperature limits are exceeded; therefore, Prysmian Group recommend storing I/O cables in appropriate temperature conditions ≥ 24 hours prior to placement.



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ExpressLT™ Gel Free Loose Tube | Indoor-Outdoor

Indoor-Outdoor Riser and Plenum Cables

ExpressLT™ I/O Riser with Corrugated Armor (1A 2J - gel-free) DRLDD Series | OFCR / FT4

Fiber Count	# Buffer Tubes Outer/Inner Layer	Fibers per Unit or # of Units	Diameter Inches (mm)	Cable Weight lb/kft (kg/km)	Bend Radius Load inches (cm)	Bend Radius No Load Inches (cm)
2 to 60	5	12	0.63 (16.0)	190 (283)	12.6 (32.0)	6.3 (16.0)
62 to 72	6	12	0.66 (16.8)	204 (304)	13.2 (33.6)	6.6 (16.8)
74 to 84	7	12	0.71 (18.0)	231 (344)	14.2 (36.1)	7.1 (18.1)
86 to 96	8	12	0.74 (18.8)	250 (372)	14.8 (37.6)	7.4 (18.8)
98 to 108	9	12	0.78 (19.8)	278 (413)	15.6 (40.0)	7.8 (19.9)
110 to 120	10	12	0.80 (20.3)	294 (438)	16.0 (40.7)	8.0 (20.4)
122 to 132	11	12	0.84 (21.3)	320 (476)	16.8 (42.7)	8.4 (21.4)
134 to 144	12	12	0.88 (22.4)	347 (517)	17.6 (44.7)	8.8 (22.4)

ExpressLT™ I/O Plenum Dielectric (Single Jacket) DPLDB Series | OFNP/FT6

Fiber Count	# Buffer Tubes Outer/Inner Layer	Fibers per Unit or # of Units	Diameter Inches (mm)	Cable Weight lb/kft (kg/km)	Bend Radius Load Inches (cm)	Bend Radius No Load Inches (cm)
2 to 60	5	12	0.37 (9.3)	55 (82)	7.4 (18.8)	3.7 (9.4)
62 to 72	6	12	0.40 (10.2)	67 (99)	8.0 (20.4)	4.0 (10.2)
74 to 84	7	12	0.44 (11.1)	80 (119)	8.8 (22.4)	4.4 (11.2)
86 to 96	8	12	0.48 (12.2)	97 (145)	9.6 (24.4)	4.8 (12.2)
98 to 144	12 / 6	12	0.61 (15.6)	138 (206)	12.2 (31.0)	6.1 (15.5)

Temperature Range

Shipping and Storage:	**(Riser)**	-58° F to +158° F	(-50° C to +70° C)
	(Plenum)	-40° F to +158° F	(-40° C to +70° C)
Installation:	**(Riser)**	+14° F to +140° F	(-10° C to +60° C)
	(Plenum)	+32° F to +140° F	(0° C to +60° C)
Operation:	**(Riser)**	-58° F to +158° F	(-50° C to +70° C)
	(Plenum)	-40° F to +158° F	(-40° C to +70° C)

Riser & Plenum Mechanical Specifications

Maximum installation load:	600 lbf	(2670 N)
Maximum operation load:	180 lbf	(801 N)

Note. Cable damage may occur if installation temperature limits are exceeded; therefore, Prysmian Group recommends storing I/O cables in appropriate temperature conditions ≥ 24 hours prior to placement.

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Ordering Guide

The Prysmian Group part number incorporates several significant attributes involving cable design and optical performance. The appropriate part number can be configured using the process described below

EXAMPLE: ExpressLT™ Loose Tube | Indoor-Outdoor Riser | Gel-Free buffer tubes | Dielectric (Single Jacket) with Aluminum Interlock Armor 12 62.5/125 multimode fibers per buffer tube | 48 fibers total (printed in feet)

1 LENGTH MARKINGS	2 PRODUCT FAMILY	3 CONSTRUCTION	4 FIBER GROUPING	5 FIBER TYPE	6 FIBER COUNT	7 FIBER GRADE
F	DRLDB	AJ	12	6S	048	M2

PART NUMBER CONSTRUCTION

1 LENGTH MARKINGS

F = Feet or M = Meters

2 PRODUCT FAMILY

Riser / FT4 | Gel-Free Tubes | OFNR / FT4

DRLDB = Indoor-Outdoor Riser All-dielectric (single jacket) 2 to 288

DRLDC = Indoor-Outdoor Riser All-dielectric (double jacket) 2 to 144

Riser / FT4 | Gel-Free Tubes | OFCR / FT4

DRLDD = Indoor-Outdoor Riser Armored (double jacket) 2 to 144

Plenum / FT6 | Gel-Free Tubes | OFNP /FT6

DPLDB = Indoor-Outdoor Plenum All-dielectric (single jacket) 2 to 144

3 CONSTRUCTION

(blank) = none

AJ = Jacketed aluminum (use with DRLDB and DPLDB)

SJ = Jacketed steel (use with DRLDB and DPLDB)

4 FIBER GROUPING

12 = 12f per unit or tube

FIBER INFORMATION

5 FIBER TYPE

SINGLE-MODE

ES = Enhanced Single-Mode (ITU G.652 C & D)

BB = BendBright Single-Mode (ITU G.657.A1 & G.652.D)

BX = BendBrightXS Single-Mode (ITU G.657.A2 & B2 & G.652.D)

MULTIMODE	Wavelength (nm)	Bandwidth (MHz)	1 GbE Dist (m)	10 GbE Dist (m)
6S = OM1 (62.5µm)	850/1300	200/500	300/550	33/___
5E = MaxCap-BB-OM2+ (50µm)	850/1300	700/500	800/550	150/___
5F = MaxCap-BB-OM3 (50µm)	850/1300	1500/500	1000/550	300/___
5G = MaxCap-BB-OM4 (50µm)	850/1300	3500/500	1100/550	550/___

6 FIBER COUNT

002 up to 288 fibers as appropiate

7 FIBER GRADE

SINGLE-MODE

Attenuation (dB/km)	Wavelength (nm)	Fiber Type
E1 = 0.40/0.40/0.30	1310/1383/1550	Enhanced Single-Mode
E1 = 0.40/0.40/0.30	1310/1383/1550	BendBright Single-Mode
E1 = 0.40/0.40/0.30	1310/1383/1550	BendBrightXS Single-Mode

MULTIMODE

Attenuation (dB/km)	Wavelength (nm)	Fiber Type
M2 = 3.5/1.0	850/1300	OM1 (62.5µm)
M3 = 3.0/1.0	850/1300	MaxCap-BB-OM2+ (50µm)
M3 = 3.0/1.0	850/1300	MaxCap-BB-OM3 (50µm
M3 = 3.0/1.0	850/1300	MaxCap-BB-OM4 (50µm)

Other cable constructions and fiber performance grades available on request.

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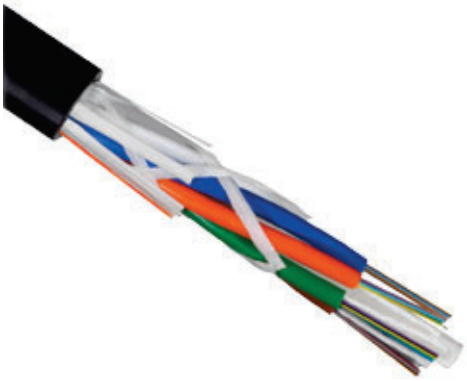
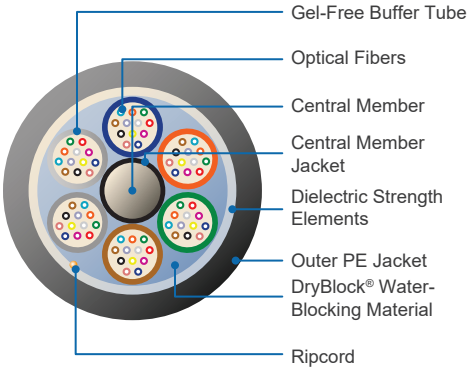
A Furukawa Company

Fortex™ DT Single Jacket Loose Tube Fiber Optic Cable

Lose the Gel with Completely Gel-Free Fiber Optic Cable for Cleaner, Faster Installations



Fortex™ DT Single Jacket
Loose Tube Fiber Optic Cable



Features and Benefits

- Totally gel-free fiber optic cable design for cleaner, faster installations
- Highly durable and reliable for duct and lashed aerial installations (including duct-to-lashed aerial) as well as general OSP installations
- Smaller, more flexible buffer tubes for easier installation and routing
- Optical fiber counts to 288
- RDUP (formerly RUS) listed and compliant with ANSI/ICEA, Telcordia, and IEC specifications for reliable performance
- Available with OFS application-specific fibers including AllWave® Zero Water Peak (ZWP) and AllWave+ Single-Mode, TrueWave® *RS* LWP Single-Mode, and Multimode optical fibers

Product Description

OFS' Fortex™ DT Single Jacket Loose Tube Cable delivers the durability and reliability essential for outside plant (OSP) use in an innovative, completely gel-free cable design.

To construct this all-dielectric cable, the optical fibers are placed in space-efficient, 2.5 mm buffer tubes that contain a specially-engineered, super-absorbent yarn that delivers water blocking "on demand." The color-coded buffer tubes are then stranded around a dielectric central member using the reverse oscillating lay (ROL) stranding technique for easy, mid-span fiber access.

Additional gel-free, super-absorbent material is applied to the cable core to offer exceptional water-blocking performance and faster cable preparation. Dielectric strength elements, a ripcord, and a durable polyethylene jacket complete the cable construction.

Why The Fortex DT Cable Single Jacket?

As the industry's first 100%[1] gel-free loose tube cable to meet the water-blocking requirements of ANSI/ICEA and Telcordia OSP cable standards, Fortex DT Single Jacket Cable offers all the benefits of a standard loose tube cable plus it's completely gel-free – even inside of the buffer tubes!

Unlike traditional OSP fiber optic cables that use gels in direct contact with optical fibers, Fortex DT Single Jacket Cable replaces gels with a specially-designed, super-absorbent yarn in each buffer tube that provides water blocking "on demand". By eliminating gels and filling compounds, this cable offers virtually effortless splice preparation, while keeping your tools, workspace, closures, and cabinets cleaner. Gel-free cables are also lighter in weight, making them easier to handle and less of a load on your work crew and plant infrastructure.

In addition to being completely gel-free, Fortex DT Single Jacket Cable offers the same high-performance features as OFS' traditional loose tube cables. Our 2.5 mm buffer tubes – among the smallest standard tubes in the industry – create far less bulk to be stored in closures and pedestals. Smaller, more flexible buffer tubes also coil more easily and into tighter diameters.

[1] [1] "100% gel free" indicates that no oils, gels, or flooding compounds are used to block water penetration under the fiber optic cable sheath or through the core.

Specifications

Fiber Count	2-60	61-72	73-96	97-120	121-144	145-216	217-240	241-288
Cable Outer Diameter - in. (mm)	0.39 (9.9)	0.41 (10.5)	0.48 (12.3)	0.55 (13.9)	0.62 (15.7)	0.61 (15.5)	0.64 (16.3)	0.71 (18.0)
Weight - lb/kft (kgm/km)	42 (62)	48 (72)	65 (96)	85 (126)	107 (159)	90 (134)	102 (152)	126 (187)

Performance Standard (all cables)

Tested per Applicable Requirements of ANSI/ICEA S-87-640 and Telcordia GR-20-Core Issue 4.

Handling

Minimum Bend Radius, With Load	15 x OD*		
Minimum Bend Radius, With No Load	10 x OD*	**Temperature:**	Installation -22 °F to 140 °F (-30 °C to 60 °C)
Minimum Bend Radius, Storage Coils	10 x OD*		Operation -76 °F to 158 °F (-60 °C to 70 °C)
Maximum Rated Cable Load (MRCL):	600 lbf (2700 N)		Storage -40 °F to 167 °F (-40 °C to 75 °C)
Maximum Long Term Load:	180 lbf (800 N)	*NOTE: OD = Outer Diameter of Cable*	

Fiber Type[2]

Single-Mode Fiber	Fiber (S1)	Fiber (S2)	Fiber (SF)	Fiber Standards	Wavelengths (nm)	Typical * Attenuation (dB/km)	Maximum Cable on Reel Attenuation (dB/km)
AllWave® ZWP Fiber	3	B	E	G.652.D	1310/1385/1550	-	0.35/0.31/0.25
AllWave+ ZWP Fiber	3	C	E	G.652.D/G.657.A1	1310/1385/1550	-	0.35/0.31/0.25
AllWave *FLEX* ZWP Fiber	5	B	E	G.652.D/G.657.A1	1310/1385/1550	-	0.35/0.31/0.25
AllWave *Low Loss* Fiber	3	A	E	G.652.D	1310/1385/1550	0.33/0.31/0.19	0.34/0.31/0.22
AllWave One Fiber	3	F	E	G.652.D/G.657.A1	1310/1385/1550	0.33/0.31/0.19	0.34/0.31/0.22
TrueWave® *RS* LWP Fiber	6	2	6	G.655.C&D	1550	0.21	0.25
TeraWave® Fiber	6	2	R	G.654.B	1550	0.19	0.25
TeraWave ULL Fiber	6	9	R	G.654.B	1550	0.18	0.22
Multimode Fiber							
62.5 µm Fiber	R	U	9	OM1 62.5 µm	850/1300	-	3.4/1.0
LaserWave® *FLEX* 300 Fiber	R	F	2	OM3 50 µm	850/1300	-	2.4/0.7
LaserWave *FLEX* 550 Fiber	R	H	2	OM4 50 µm	850/1300	-	2.4/0.7

Fortex DT Single Jacket Loose Tube Cable Ordering Information

Example: AT-3BE12YT-*NNN* [1] Part Number: **AT-** *S1 S2 SF S3 S4 S5 S6* **-** *NNN*

S1 = **Fiber Selection**
See S1 in Fiber Type table above

S2 = **Fiber Transmission Performance**
See S2 in Fiber Type table above

SF = **Fiber Type** [2]
See SF in Fiber Type table above

S3 = **Sheath Construction**
1 = Single Jacket All Dielectric

S4 = **Tensile Load**
2 = 600 lb. (2700 N)

S5 = **Core Type**
Y = Totally Gel-Free Loose Tube

S6 = **Fibers per Tube**
T = 12 fibers

NNN = **Fiber Count** = 002 – 288

[1] Part Number shown is for a Fortex DT.Single Jacket Cable with standard AllWave ZWP attenuation and standard cable print. Maximum AllWave ZWP attenuation: 0.35/0.31/0.27/0.25/0.27 dB/km @ 1310/1385/1490/1550/1625 nm
Standard Print, example for Fortex DT Single Jacket Cable:: OFS OPTICAL CABLE AT-3BE12YT-NNN [MM-YY] (UL) US TYPE OFNR [HANDSET SYMBOL] [NNN] F [SERIAL #]

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

NOTE: For more information regarding typical attenuation as well as attenuation parameters on Link Design Value (LDV) (Maximum end-to-end attenuation over a concatenated span), please see OFS Application Note AN-111 which can be downloaded at www.ofsoptics.com or contact your OFS representative.

For additional information please contact your sales representative.
You can also visit our website at www.ofsoptics.com or call 1-888-fiberhelp (1-888-342-3743) USA or 1-770-798-5555 outside the USA.

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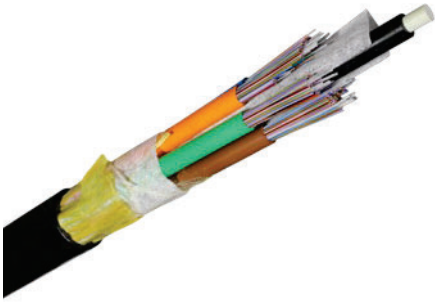
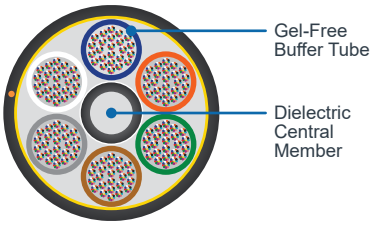
AccuTube®+ Rollable Ribbon (RR) in Loose Tube Cable

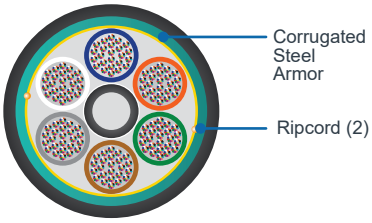
Ultra-High-Density Cable for Performance You Can Count On



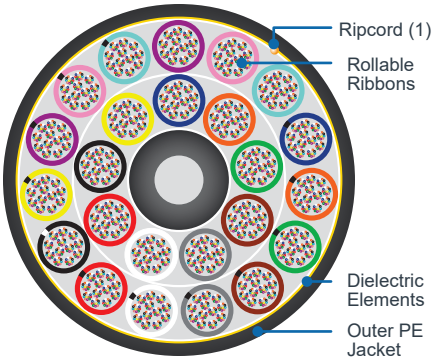
AccuTube+ 1728-Fiber RR Cable



432-1728 Fiber Dielectric Cable Cross-Section



432-1728 Fiber Metallic Cable Cross-Section



3456 Fiber Dielectric Cable Cross-Section

Features

- Outstanding carrying capacity for ultra-high-density applications
- Rugged loose tube design features OFS rollable ribbon technology in individual polypropylene buffer tubes
- Completely gel-free design
- Fiber counts of 432, 576, 864, 1728 and 3456
- Standard ribbon print marking with numbers and blocks for identification
- Meets the mechanical and optical requirements of Telcordia GR-20 Issue 4 and ANSI/ICEA S-87-640 for outside plant (OSP) fiber optic cables
- 432, 576, 864 and 1728 fiber count available in Dielectric or Armored Versions

Benefits

- Ribbon design enables smaller cable outer diameter (OD) and reduced weight versus comparable flat ribbon designs
- Rollable ribbon structure helps facilitate efficient mass fusion splicing and easy access to individual fibers for mid-span splice access
- Loose tube design enables rugged installation performance and easier ribbon access versus alternative rollable ribbon cable designs
- Gel-free design helps facilitate faster cable preparation
- Robustness suitable for OSP design

Product Description

The AccuTube+ Rollable Ribbon (RR) Cable features 432, 576, 864, 1728 or 3456 optical fibers in a gel-free, loose tube cable design. This cable features rollable ribbons, OFS' newest optical fiber ribbon design. To form these ribbons, individual 250 µm fibers are partially bonded to each other at predetermined points.

Why the AccuTube+ RR Cable?

With up to 3456 fibers in a single cable, the AccuTube+ RR Cable offers exceptional carrying capacity for high-growth, high-bandwidth applications. This cable's rollable ribbon design helps users achieve highly efficient and cost-effective mass fusion splicing along with easy individual fiber breakout. This capability helps to simplify installation and save on labor costs. In addition, the AccuTube+ RR Cable's significantly greater fiber density can help to expand the capacity of existing pathways using smaller, lower-cost duct systems. For example, the 1728 fiber count cables can be routed in existing 1 1/4-inch pathways while the 3456 fiber count cables are suited for 2-inch pathways.

The AccuTube+ RR Cable's ribbons may be "rolled" (compacted) and routed like individual fibers to facilitate use in smaller closures and splice trays.

In addition, this cable's completely gel-free water-blocking design also helps to reduce the time required to prepare cable ends and achieve mid-span access which can also help with reduced labor and splice costs.

With its ability to maximize duct utilization, the AccuTube+ RR Cable is an excellent choice for connecting very large fiber distribution hubs. It is also highly suitable for use in data centers, FTTx and access networks.

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AccuTube®+ Rollable Ribbon (RR) in Loose Tube Cable

Specifications				
Dielectric Construction				
Fiber Count	**432**	**576-864**	**1728**	**3456**
Cable Outer Diameter - in. (mm)	0.66 (16.8)	0.82 (21)	0.99 (25.1)	1.38 (35.0)
Cable Weight - lb/kft (kg/km)	141 (210)	212 (315)	310 (460)	556 (828)
Buffer Tube Diameter - in. (mm)	0.18 (4.5)	0.24 (6.0)	0.28 (7.0)	0.20 (5.0)
Recommended Duct Size	1 in.	1 in.	1 1/4 in.	2 in.
Metallic Construction				
Fiber Count	**432**	**576-864**	**1728**	
Cable Outer Diameter - in. (mm)	0.73 (18.6)	0.91 (23.2)	1.05 (26.8)	
Cable Weight - lb/kft (kg/km)	195 (290)	281 (418)	366 (545)	
Buffer Tube Diameter - in. (mm)	0.18 (4.5)	0.24 (6.0)	0.30 (7.0)	
Recommended Duct Size	1 in.	1 1/4 in.	1 1/2 in.	
Handling (All Fiber Counts)				
Minimum Bend Radius, with Load	15 x OD (Outer Diameter)			
Minimum Bend Radius, with No Load	15 x OD			
Minimum Bend Radius, Storage Coils	15 x OD			
Rated Installation Load	1000 lb. (4448 N)			
Maximum Long-Term Load	333 lb. (1481 N)			
Performance Standard (All Fiber Counts)				
Tested per Applicable Requirements of ANSI/ICEA S-87-640 and Telcordia GR-20 CORE Issue 4.				
Temperature (All Fiber Counts)				
Installation	-22 ºF to 140 ºF (-30 ºC to 60 ºC)			
Operation	-40 ºF to 158 ºF (-40 ºC to 70 ºC)			
Storage	-40 ºF to 167 ºF (-40 ºC to 75 ºC)			

AccuTube+ RR Cable Ordering Information

Example: AT-3GE1X5T-*NNNN*[1]

Part Number: **AT** - *S1 S2 SF S3 S4 S5 S6 - NNNN*

S1 = **Fiber Selection**
See S1 in Fiber Type table below.

S2 = **Fiber Transmission Performance**
See S2 in Fiber Type table below.

SF = **Fiber Type**[2]
See SF in Fiber Type table below.

S3 = **Sheath Construction**
1 = Single Jacket, All Dielectric
H = Single Jacket, Single Armor

S4 = **Tensile Load**
X = 1,000 lb. (4450 N)

S5 = **Core Type**
5 = Gel-Free Loose Tube Rollable Ribbon in 4.5 mm Tubes (432 Fiber)
5 = Gel-Free Loose Tube Rollable Ribbon in 6.0 mm Tubes (864 Fiber)
5 = Gel-Free Loose Tube Rollable Ribbon in 7.0 mm Tubes (1728 Fiber)
5 = Gel-Free Loose Tube Rollable Ribbon in 5.0 mm Tubes (3456 Fiber)

S6 = **Fibers per Buffer Tube (12-Fiber Ribbons)**
T = 72 Fibers/Tube (432 Fiber)
T = 144 Fibers/Tube (864 Fiber)
T = 288 Fibers/Tube (1728 Fiber)
T = 144 Fibers/Tube = (3456 Fiber)

NNNN = **Fiber Count**
432, 576, 864, 1728 and 3456

Fiber Type[2]

Single-Mode Optical Fiber	Fiber (S1)	Fiber (S2)	Fiber (SF)	Standard
AllWave®+ ZWP Optical Fiber	3	G	E	G.652.D/G.657.A1

Maximum Cable Attenuation on Reel				
	1310 nm	1385 nm	1550 nm	MCA
AllWave+ ZWP Optical Fiber	0.4	0.4	0.3	4

[1] Part Number shown is for an AccuTube+ Rollable Ribbon Cable with standard 144 AllWave+ ZWP Optical Fibers and standard cable print.
OFS OPTICAL CABLE AT-3GE1X5T-NNNN [MM/YY] (UL) US TYPE OFNR [HANDSET SYMBOL] [NNN] F [SERIAL #]

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

For additional information please contact your sales representative.

You can also visit our website at www.ofsoptics.com or call 1-888-fiberhelp (1-888-342-3743) USA or 1-770-798-5555 outside the USA.

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ALTOS® All-Dielectric Gel-Free Cables, 6-432 Fibers

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Features and Benefits

Fully waterblocked loose tube, gel-free design
Simple access and no clean up

Polyethylene jacket
Rugged, durable and easy to strip (while providing superior protection against UV radiation, fungus, abrasion and other environmental factors)

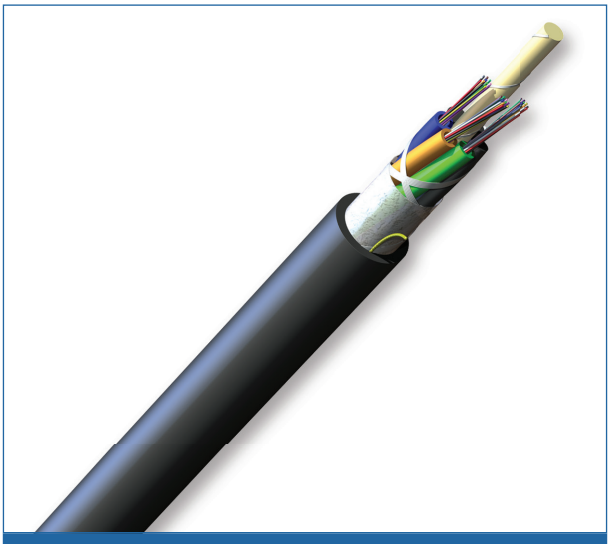
All-dielectric cable construction
Requires no grounding or bonding

Available in 62.5 µm, 50 µm, single-mode (including bend-insensitive and non-zero dispersion-shifted (NZ-DSF) fiber options) and hybrid versions
Ready for any application including Gigabit Ethernet and 10 Gigabit Ethernet

Corning ALTOS® all-dielectric gel-free cables are designed for outdoor and limited indoor use for 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 mid-span access. The all-dielectric cable construction requires no bonding or grounding, and these cables have a polyethylene jacket that is rugged, durable and easy to strip.

Standards

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, Telcordia GR-20, RDUP PE-90



ALTOS All-Dielectric, Gel-Free Cables, 36 Fibers | Photo PIM2426

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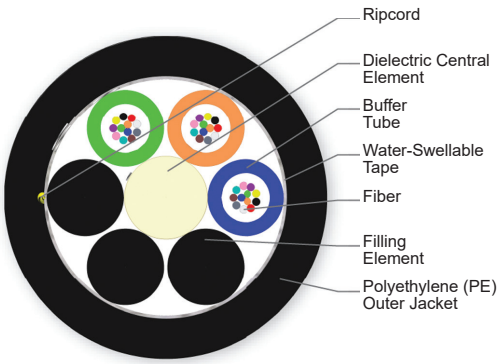
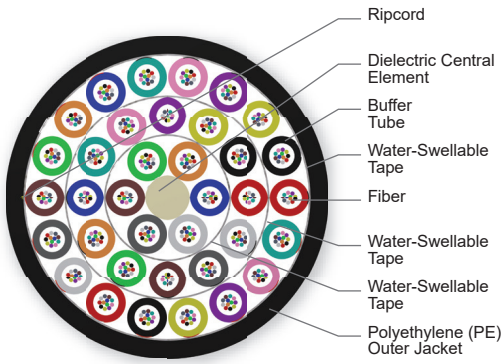
ALTOS® All-Dielectric Gel-Free Cables, 6-432 Fibers



ALTOS All-Dielectric, Gel-Free Cables, 36 Fibers | Photo PIM2326



ALTOS All-Dielectric, Gel-Free Cables, 432 Fibers

Specifications

Temperature Range	
Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	-30 °C to 70 °C (-22 °F to 158 °F)
Operation	-40 °C to 70 °C (-40 °F to 158 °F)

** Note: Corning 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.*

Mechanical Characteristics Cable	
Max. Tensile Strength, Long-Term	200 lbf (890 N)
Max. Tensile Strength, Short-Term	2700 N (600 lbf)

Fiber Count	Number of Tube Positions	Number of Active Tubes	Weight	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation
6 - 72	6	1 - 6	73 kg/km (49 lb/1000 ft)	10.5 mm (0.41 in)	158 mm (6.2 in)	105 mm (4.1 in)
84 - 96	8	7 - 8	98 kg/km (66 lb/1000 ft)	12.2 mm (0.48 in)	183 mm (7.2 in)	122 mm (4.8 in)
108 - 144	12	9 - 12	162 kg/km (109 lb/1000 ft)	15.8 mm (0.62 in)	237 mm (9.3 in)	158 mm (6.2 in)
156 - 216	18	13 - 18	147 kg/km (99 lb/1000 ft)	16 mm (0.63 in)	240 mm (9.4 in)	160 mm (6.3 in)

ALTOS® All-Dielectric Gel-Free Cables, 6-432 Fibers

Fiber Count	Number of Tube Positions	Number of Active Tubes	Weight	Nominal Outer Diameter	Min. Bend Radius Instal-lation	Min. Bend Radius Ope-ration
228 - 288	24	19 - 24	196 kg/km (131 lb/1000 ft)	18.2 mm (0.72 in)	273 mm (10.7 in)	182 mm (7.2 in)
360 - 432	36	30 - 36	241 kg/km (162 lb/1000 ft)	21.2 mm (0.83 in)	318 mm (12.5 in)	212 mm (8.3 in)

Chemical Characteristics	
RoHS	Free of hazardous substances according to RoHS 2011/65/EU

Transmission Performance

Multimode				
Fiber Core Diameter (µm)	62.5	50	50	50
Fiber Category	OM1	OM2	OM3	OM4
Fiber Code	K	T	T	T
Performance Option Code	30	31	80	90
Wavelengths (nm)	850/1300	850/1300	850/1300	850/1300
Maximum Attenuation (dB/km)	3.4/1.0	3.0/1.0	3.0/1.0	3.0/1.0
Serial 1 Gigabit Ethernet (m)	300/550	750/500	1000/600	1100/600
Serial 10 Gigabit Ethernet (m)	33/-	150/-	300/-	550/-
Min. Overfilled Launch (OFL) Bandwidth (MHz*km)	200/500	700/500	1500/500	3500/500
Minimum Effective Modal Bandwidth (EMB) (MHz*km)	220/-	950/-	2000/-	4700/-

ALTOS® All-Dielectric Gel-Free Cables, 6-432 Fibers

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Single-mode					
Fiber Name	SMF-28e+® LL	SMF-28® Ultra fiber**	Single-mode (OS2)	Single-mode (OS2)	LEAF® fiber
Fiber Category	G.652.D	G.652.D/G.657.A1	G.652.D	G.652.D	G.655
Fiber Code	L	Z	E	E	F
Performance Option Code	22	22	00	01	01
Wavelengths (nm)	1310/1383/1550	1310/1383/1550	1310/1383/1550	1310/1383/1550	1310/1383/1550
Maximum Attenuation (dB/km)	0.34/0.34/0.22	0.34/0.34/0.22	0.35/0.35/0.25	0.4/0.4/0.3	-/-/0.25
Typical Attenuation* (dB/km)	0.32/0.32/0.18	0.32/0.32/0.18	-	-	-/-/0.19
Fiber Name	SMF-28® ULL	TXF™ fiber			
Fiber Category	G.652	G.654.E			
Fiber Code	P	D			
Performance Option Code	19	01			
Wavelengths (nm)	1310/1383/1550	1310/1383/1550			
Maximum Attenuation (dB/km)	0.33/-/0.19	-/-/0.20			
Typical Attenuation* (dB/km)	0.31/-/0.17	-/-/0.18			

** For more information on typical attenuation please see the Corning whitepaper at http://csmedia.corning.com/opcomm//Resource_Documents/whitepapers_rl/LAN-1863-AEN.pdf*

** * SMF-28® Ultra fiber delivers up to 10x better macrobend loss performance compared to the G.652.D standard and up to 33 percent better macrobend loss performance than the G.657.A1 standard for 10mm radii bends.*

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ALTOS® All-Dielectric Gel-Free Cables, 6-432 Fibers

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Ordering Information | *Note: Contact Customer Care at 1-800-743-2675 for other options.*

☐ ☐ ☐	☐	U	4	-	☐	☐	1	☐	☐	D	2 0
1	2	3	4		5	6	7	8		9	10

1 Select fiber count.
006-288
360-432 (SMF-28® Ultra fiber only)

2 Select fiber code.
K = 62.5 µm multimode (OM1)
T = 50 µm multimode (OM2/OM3/OM4)
E = Single-mode (G.652.D)
L = Single-mode (G.652.D) SMF-28e+® LL
Z = Single-mode (G.652.D/ G.657.A1) SMF-28® Ultra fiber
P = Single-mode (G.652) SMF-28® ULL
F = Single-mode (G.655) LEAF®
D = TXF™ Single-mode (G.654.E)

3 Defines cable type.
U = ALTOS® Loose Tube Cable with 2.5 mm buffer tubes

4 Defines outer jacket.
4 = All-dielectric

5 Select fiber placement.
T = 12 fibers/buffer tube (standard)
6 = 6 fibers/buffer tube
See Note 1.

6 Select length markings.
3 = Markings in meters
4 = Markings in feet (standard)

7 Defines tensile strength.
1 = 2700 N/600 lbf (standard)

8 Select performance option code.
30 = 62.5 µm multimode (OM1)
31 = 50 µm multimode (OM2)
80 = 50 µm multimode (OM3)
90 = 50 µm multimode (OM4)
01 = Single-mode (OS2) (Max. attenuation 0.4/0.4/0.3 dB/km)
00 = Single-mode (OS2) (Max. attenuation 0.35/0.35/0.25 dB/km)
22 = Single-mode (OS2) (Max. attenuation 0.34/0.34/0.22 dB/km)
19 = Single-mode (Ultra Low-Loss) (Max. attenuation 0.33/–/0.19 dB/km)
01 = Single-mode (TXF) (Max. attenuation –/–/0.20 dB/km)
01 = Single-mode NZDSF* (Max. attenuation –/–/0.25 dB/km)
**Non-Zero Disperson-Shifted Single-mode Fiber*

9 Defines cable type.
D = Gel-free cable

10 Defines special requirements.
20 = No special requirements

1) Cable outer diameter may change. Example: 48 F cable with 6 fibers per tube will require 8 active buffer and have an OD like a standard 96 F cable.

RoHS COMPLIANT

Corning Optical Communications LLC • PO Box 489 • Hickory, NC 28603-0489 USA
800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/opcomm
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Product Description: AT-XXX17DT-144-CLGA - Maximum Span 455 ft

Loading Conditions NESC HEAVY

Ice Thickness	12.7 mm	0.5 in.
Wind Pressure	192 N/m^2 (63.6 km/hr)	4 psf (39.5 MPH)
Temperature	-17.8 C	0 F
Safety Factor	4.38 N/m	0.3 lb/ft

Tension @ Maximum Span for 1.5 % Installation Sag

Short Term	746 kg	1644 lb
Long Term	302 kg	666 lb

Specifications:

Maximum Span	138.7 m	455 ft
Cable Weight	0.262 kg/m	0.176 lb/ft
Cable Diameter	18.5 mm	0.729 in
Installation Temp	20 C	68 F
Cable Modulus	251.3 kg/mm^2	357.4 kpsi
Linear Expansion Coefficient	0.00002452 1 / C	0.00001363 1 / F
Estimated Break Load	1015 kg	2239 lb

Maximum Cable Length: Dependent on construction and/or fiber type

Singlemode	7,300 m	23,950 ft
62.5/125 Multimode	7,300 m	23,950 ft

No Loading @ Install Temperature 68 F				All Loading Conditions @ Temperature 0 F				
Span	Sag	Install Sag	Tension	Vertical Sag	Tension	Vertical Sag	Horizontal Sag	Angle
ft	ft	%	lb	% of Span	lb	ft	ft	Deg
25	0.4	1.50	37	1.6	229	0.4	0.3	32
50	0.7	1.50	73	2.1	359	1.0	0.6	32
75	1.1	1.50	110	2.4	471	1.8	1.1	32
100	1.5	1.50	146	2.6	570	2.6	1.6	32
125	1.9	1.50	183	2.8	665	3.5	2.2	32
150	2.2	1.50	220	3.0	753	4.5	2.7	32
175	2.6	1.50	256	3.1	837	5.5	3.4	32
200	3.0	1.50	293	3.3	919	6.5	4.0	32
225	3.4	1.50	330	3.4	997	7.6	4.7	32
250	3.7	1.50	366	3.5	1074	8.7	5.3	32
275	4.1	1.50	403	3.6	1149	9.8	6.0	32
300	4.5	1.50	439	3.7	1221	11.0	6.8	32
325	4.9	1.50	476	3.8	1293	12.2	7.5	32
350	5.2	1.50	513	3.8	1362	13.4	8.2	32
375	5.6	1.50	549	3.9	1431	14.7	9.0	32
400	6.0	1.50	586	4.0	1499	16.0	9.8	32
425	6.4	1.50	622	4.1	1565	17.2	10.6	32
450	6.7	1.50	659	4.1	1631	18.6	11.4	32
455	6.8	1.50	666	4.1	1644	18.8	11.5	32

The recommended maximum space potential at ADSS attachment point is 12 kV

Dead End Assembly:
MOSDORFER Dead-End: AS01-FDES-0700, Max. Tension: 2,500 lbs. (1,134 kg)
PLP Dead-End: 2872010C1E1, Max. Tension: 2,500 lbs. (1135 kg)

Fixed Tangent Support (Line Angle Changes <= 20 deg & Spans <= 600 ft (183 m)
MOSDORFER: Support Clamp: FOSC 0775
PLP: Dielectric block: 44009799
PLP: Aluminum Support: 4450104

Suspended Support (Line Angle Changes <= 20 deg & Spans <= 600 ft (183 m)
PLP: Aluminum Suspension: 4450204-S

Low Tension / Short Span Hardware:
MOSDORFER: Light Tension DE: FOLT1730-CTO, Max. Tension: 800 lbs. (362 kg)
PLP: Lite Tension DE: 2875007C1N, Max. Tension: 800 lbs. (362 kg)
PLP: Lite Support: 4800122, Max.Span 300 ft (91 m)
PLP PGTTH Dead End: Not Available

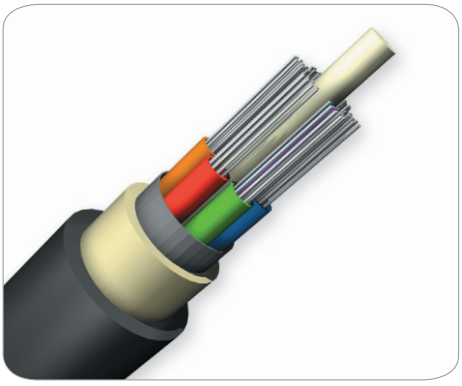
Slack Storage Devices: Not recommended for TR cables
PLP Fiberlign® CLAS Storage System w/cable guide: 710012375U

Heliformed Suspension Units (Line angle changes<= 30 degrees):
PLP: 43009868YC :Spans 1200ft to 2000ft (365m to 610m)
PLP: 4470204-S Aluminum Suspension with SRR rods, Max Span: 1200 ft (365m)

Vibration Dampers, see Application Note 812 for recommendations:
MORSDORFER Vibration Dampers: SVD0564
PLP Vibration Dampers: 50509862

Down Lead Cushion & Abrasion Protector:
PLP: 8003044, Add "H1" - Wood Attachment Kit & "LTC1" - Lattice Clamp Kit
PLP Abrasion Protector: PTG-0203 Length: 6 ft

Corona coils not required
PLP: Sized to fit appropriate hardware, part numbers available upon request



Gel-Free Non-Armored OSP Loose Tube (LE Series Gel-Free SJ)

AFL LE-Series Gel-Free Single Jacket fiber optic cables incorporate dry water-absorption technology within the fiber-containing buffer tubes. This results in user-friendly handling of fibers during routing and termination within the splice enclosures.

Features

- Fiber counts up to 144
- Gel-free buffer tubes reduce fiber prep termination time
- Reverse-oscillated (SZ stranded) to allow slack for mid-span access
- UV-stabilized outer jacket for long-term performance in aerial applications

Applications

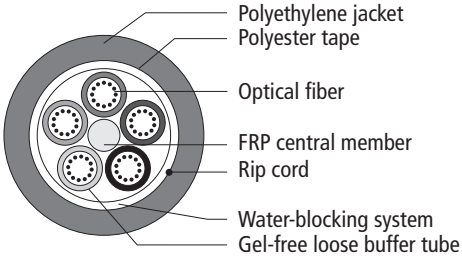
- Distribution
- Underground Duct
- Long Haul Networking
- Building Interconnections (Campus LAN)
- Trunking Lines Direct to Telecommunications Closet
- Local Loop

Typical Lengths

FIBER COUNT	MAXIMUM LENGTHS*			
	SINGLE-MODE		MULTIMODE	
	FEET	METERS	FEET	METERS
6 - 60	22,900	7,000	22,900	7,000
72 - 96	22,900	7,000	22,900	7,000
108 -120	22,900	7,000	22,900	7,000
132 - 144	22,900	7,000	22,900	7,000

* Longer lengths may be available upon request.

Cable Components



Fiber Specifications

FIBER TYPE	MAXIMUM ATTENUATION (DB/KM)				OVERFILL LAUNCH MIN. BANDWIDTH (MHZ•KM)		GIGABIT ETHERNET MIN. LINK DISTANCE (METERS)	
	850 NM	1300 NM	1310 NM	1550 NM	850 NM	1300 NM	850 NM	1300 NM
(6) 62.5/125 GIGA-Link™ 300	3.5	1.2	N/A	N/A	200	600	300	550
(5) 50/125 GIGA-Link™ 600	2.9	0.9	N/A	N/A	500	500	600	600
(L) 50/125 Laser-Link™ 300	2.9	0.9	N/A	N/A	1500	500	900	550
(9) Single-mode	N/A	N/A	0.35	0.25	N/A	N/A	N/A	5000
(Q) Non-zero Dispersion-shifted Single-mode	N/A	N/A	N/A	0.25	N/A	N/A	N/A	N/A
(K) AFL G.657.A1 Single-mode	N/A	N/A	0.35	0.25	N/A	N/A	N/A	5000

Gigabit Ethernet Minimum Link Distances are based on "bandwidth"/modal dispersion constraints.
Actual link distances may be constrained by attenuation, depending on specific loss budget.

Telcordia.

continued

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Specifications are subject to change without notice.

Gel-Free Non-Armored OSP Loose Tube (LE Series Gel-Free SJ)

Mechanical Data

AFL NO.	FIBER COUNT	NO. OF TUBES FIBERS/ TUBE	NOMINAL DIAMETER INCHES (MM)	NOMINAL WEIGHT LBS/1,000FT (KG/KM)	MAXIMUM TENSILE LOAD LBS (N)		MINIMUM BEND RADIUS INCHES (CM)	
					SHORT TERM	LONG TERM	SHORT TERM	LONG TERM
LE012✶C5101N1D	12	1/12 (4 fillers)	0.39 (9.8)	49 (73)	600 (2670)	180 (800)	7.8 (20)	5.9 (15)
LE024✶C5101N1D	24	2/12 (3 fillers)	0.39 (9.8)	49 (72)	600 (2670)	180 (800)	7.8 (20)	5.9 (15)
LE036✶C5101N1D	36	3/12 (2 fillers)	0.39 (9.8)	48 (72)	600 (2670)	180 (800)	7.8 (20)	5.9 (15)
LE048✶C5101N1D	48	4/12 (1 filler)	0.39 (9.8)	48 (71)	600 (2670)	180 (800)	7.8 (20)	5.9 (15)
LE060✶C5101N1D	60	5/12 (no fillers)	0.39 (9.8)	48 (71)	600 (2670)	180 (800)	7.8 (20)	5.9 (15)
LE072✶C6101N1D	72	6/12 (no fillers)	0.42 (10.6)	55 (82)	600 (2670)	180 (800)	8.4 (21)	6.3 (17)
LE096✶C8101N1D	96	8/12 (no fillers)	0.48 (12.3)	75 (118)	600 (2670)	180 (800)	9.6 (25)	7.2 (19)
LE144✶CC101N1D	144	12/12 (no fillers)	0.62 (15.8)	119 (178)	600 (2670)	180 (800)	12.4 (32)	9.3 (24)

Note: Diameter and weight subject to change without notice

✶ Fiber Types – Replace asterisk (✶) in AFL number with number in the Fiber Specifications table on previous page.

Reel Information

ITEM	REEL A		REEL B		REEL C		REEL D		REEL E	
	INCHES	CM	INCHES	CM	INCHES	CM	INCHES	CM	INCHES	CM
Reel Height	42	106.7	58	147.3	66	167.6	72	182.8	84	213.4
Reel Width Outside	36	91.4	38	96.5	42	106.7	42	106.7	40	101.6
Reel Width Inside	32	81.6	32	81.3	36	91.4	36	91.4	34	86.4
Drum Diameter	23	58.7	28	71.1	36	91.4	36	91.4	35	88.9
Arbor Hole Diameter	3	7.9	3	7.9	3	7.9	3	7.9	3	7.9
Reel Weight With Lagging	180 lbs	82 kg	420 lbs	191 kg	685 lbs	311 kg	710 lbs	320 kg	950 lbs	431 kg

AFL typically provides Loose Tube cable on several standard sizes of non-returnable wooden reels. Non-standard reel sizes are available upon request.

Larger reel sizes may be required to accomodate long cable lengths.

Qualifications

GOVERNING BODY	STANDARD CODE	COMPONENT
Telcordia	GR-20-CORE	Cable
ICEA	640	Cable
TIA	598-D	Fiber

Temperature Specifications

TEMPERATURE RANGE	
Operation	-40°C to +70°C
Storage	-40°C to +75°C
Installation	-30°C to +70°C

Contact AFL for your customized cable solution.

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Specifications are subject to change without notice.

PlenumXcel™ Cable

Indoor Outdoor

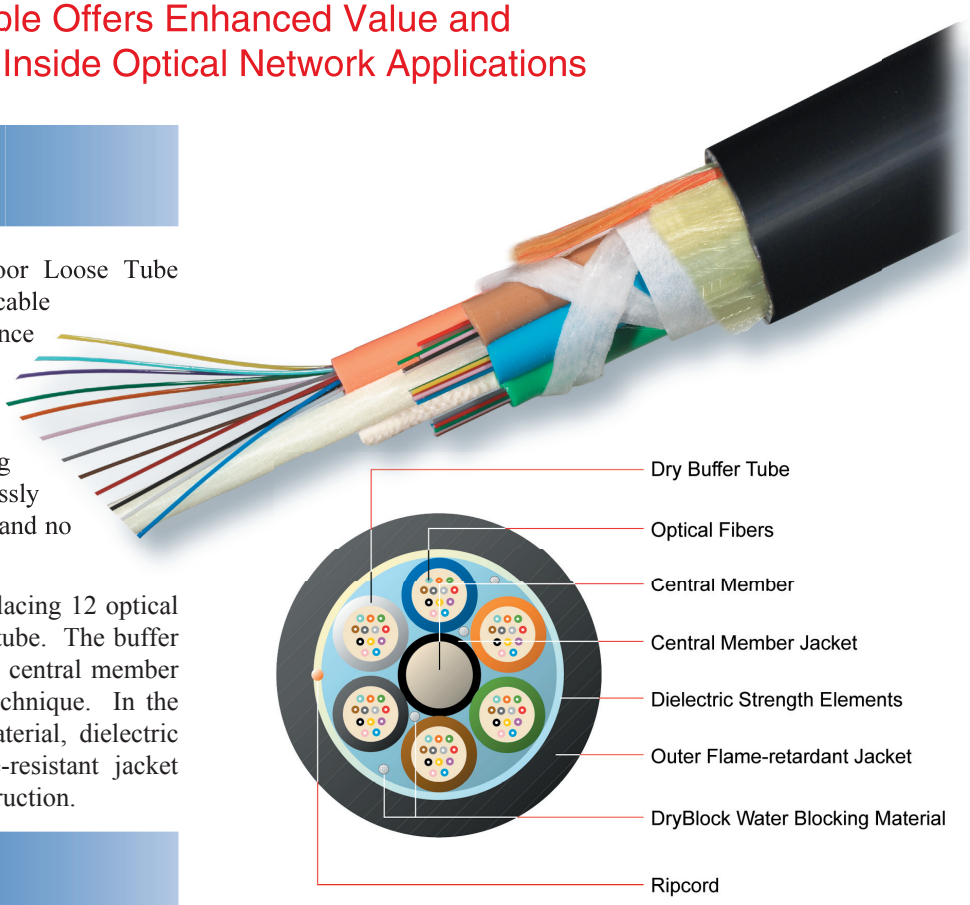
ofs
Leading Optical Innovations

Totally Dry, Dual-Purpose Cable Offers Enhanced Value and Durability for Outside Plant to Inside Optical Network Applications

Product Description

The OFS Plenum*Xcel*™ Indoor/Outdoor Loose Tube Plenum Cable is a completely dry cable that innovatively combines the flame resistance and safety features of a plenum-rated cable with the durability critical to outside plant use. The result is a unique, dual-purpose cable that saves time and money by allowing outside plant applications to flow seamlessly indoors, using a single plenum-rated cable and no splices.

The construction of this cable begins by placing 12 optical fibers within each dry, color-coded buffer tube. The buffer tubes are then stranded around a dielectric central member using the reverse oscillating lay (ROL) technique. In the final step, DryBlock™ water-blocking material, dielectric strength elements, and a UV and flame-resistant jacket encase the core to complete the cable construction.



Plenum*Xcel* Indoor/Outdoor Cable Cross-Section

Why the Plenum*Xcel* Cable?

The Plenum*Xcel* Indoor/Outdoor Cable is specifically designed for customers requiring a plenum-rated cable who also want to save on installation time and money by eliminating the use of multiple cables and splicing. With its totally dry design, this cable further streamlines cable handling and routing by eliminating messy gels and filling compounds, while delivering excellent water penetration resistance.

The Plenum*Xcel* Cable also enhances system performance by avoiding the attenuation loss created by multiple splice points.

By compartmentalizing the optical fibers within buffer tubes, Plenum*Xcel* Cable makes it easy to locate specific fibers for drop-off applications without disturbing other active fibers and tubes. ROL stranding of the buffer tubes enables easy mid-span access and cable entry.

Features and Benefits:

- Streamlined installation with direct outdoor-to-indoor cable transitions
- Totally dry cable design for faster and easier cable handling and routing
- Enhances system performance by avoiding additional splice point attenuation loss
- Suitable for installations including outside plant to building transitions, campus environments, Local Area Networks (LANs), private networks, and inter-building installations
- Fiber counts from 2 to 144 fibers
- All-dielectric, plenum-rated construction with OFNP approval [OFNP/CSA FT-6 per NEC 770-51(a) and 770-53(a)]
- Meets UL 1666 (plenum-rated) and CSA FT4 for flame resistance
- Features OFS application-specific fibers including AllWave® and TrueWave® fibers

Specifications:

Fiber Count:	Fiber counts from 2 to 144
Cable Outside Diameter (mm):	.313 in.(7.9 mm) to .482 in. (12.2 mm)
Cable Weight kg/km (lb/kft):	68.5 kg/km (46 lb/kft) to 146 kg/km (98.1mm)
Bend Radius:	10 x cable diameter under static load (installed) 20 x cable diameter under dynamic load (during installation)
Compressive Load – N/cm (lbf/in):	263N/cm (150 lb/in.)
Maximum Rated Tension:	1350N (300 lb)
Temperature (all fiber counts):	Installation: 0°C to 60°C (-22°F to 140°F) Operation: -20°C to 70°C (-4°F to 158°F) Storage: -20°C to 75°C (-4°F to 167°F)

Test and Methods:

Cable Test	Test Method		
Tensile Performance	EIA/TIA-455-33 IEC 794-1-E1		
Crush Performance	EIA/TIA-455-41 IEC 794-1-E3	Requirement: Parameter Single-Mode: Parameter Multimode:	ICEA S-104-696 0.4 dB max 0.6 dB max
Bending Performance	EIA/TIA-455-37 IEC 794-1-E11		
Temperature Cycle	EIA/TIA-455-3 IEC 794-1-E1		

Ordering Information:

Position	Description		Options
S1	Fiber Transmission Performance	3 6 R	AllWave Single-mode 1310/1550nm TrueWave RS Single-mode 1550nm Multimode 850/1300nm
S2	Fiber Attenuation Specification		**Single-Mode Options**
		4 B 2	0.40/0.30 dB/km (AllWave) 0.35/0.25 dB/km (AllWave) 0.25 dB/km (TrueWave)
			Multimode Options
		U G	3.4/1.0 dB/km & 200/500 MHz-km 2.4/0.7 dB/km and 500/900 MHz-km
SF	Fiber Type	E 6 9 2	AllWave Single-mode TrueWave RS Single-mode 62.5/125 µm Multimode 50/125 µm Multimode
S3	Central Member	1	Dielectric Central Member
S4	Tensile Load	3	300 lb. (1350N)
S5	Core Type	P	Indoor/Outdoor Plenum Loose Tube
S6	Fibers Per Tube	T	12 fibers
Example:	AT-3BE13PT-024 = 24 Fiber Indoor/Outdoor Plenum Dielectric Central Member AllWave Fiber		

For additional information please contact your sales representative. You can also visit our website at http://www.ofsoptics.com or call 1-888-fiberhelp. For regional assistance, contact:

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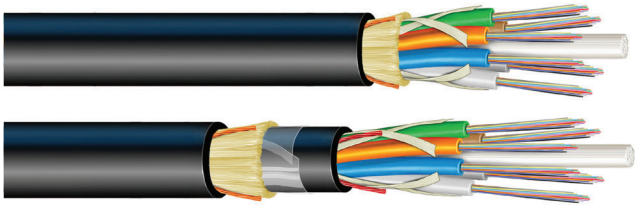
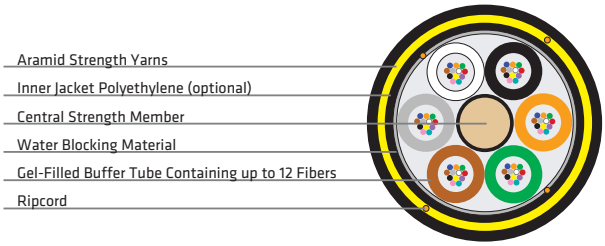
PRYSMIAN
Draka

ezSPAN® ADSS

All-dielectric self-supporting loose tube cable





All-Dielectric Self-Support (ADSS) easy entry fiber cable for up to 1200' (365m) spans typical in distribution.

Overview

Prysmian's ezSPAN® ADSS provides reliable self-support performance for up to 1200 feet (365 meters). Each ezSPAN® ADSS cable is custom engineered for each application based on its full weather load, ensuring safe, reliable lifetime performance. Flexible buffer tubes enable ease of mid-entry, preparation and routing in splice closures. These cables uniquely combine flexible buffer tubes and swellable water-blocking to make ezSPAN the easiest ADSS cables to prep and access.

Product Snapshot

Applications	Self-supporting aerial deployment for communications & power transmission
Constructions	All-dielectric round - typical span lengths up to 1,200' (305m), single and dual jacket
Fiber Count	12 to 144 fibers in color coded buffer tubes
Fiber Types	Single-mode / bend-insensitive / NZDSF / multimode / hybrid
Standards	IEEE 1222-2011, ANSI / ICEA 640, IEC, RUS 7 CFR 1755 (RUS LISTED), Telecordia GR-20
Registered Supplier	ISO 9001, ISO 14001, TL 9000, and OHSAS 18001
Other Versions	Long Span ADSS

RUS LISTED

Features and Benefits

Easy Cable Entry and Preparation

- 12 fibers per tube construction up to 144 fiber designs allow easy termination and mid-span fiber access
- Flexible buffer tubes and single jacket option enhance mid-entry
- Ripcord speeds cable entry and outer jacket removal
- Swellable binders speed cable preparation

Flexible Routing and Termination

- Flexible buffer tubes simplify routing, storage and prep
- Available with G657.A1 and G657.A2 bend-insensitive single-mode fiber

Versatile Installation and Use

- Tailored designs span distances up to 1200' (305m) without interrupting power
- Easy mid-entry is ideal for FTTx distribution applications
- Matching pole attachment hardware (dead-ends, suspension clamps)

Reliable Lifetime Performance

- Custom engineered for operation under full load
- Guaranteed standards-based performance

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ezSPAN® ADSS

All-Dielectric Self-Supporting Loose Tube Cable

PLP ATTACHMENT HARDWARE CONSIDERATIONS

- Dead-ends indicated are Limited & Medium Tension dead-ends. The Limited Tension dead-end is designed for a maximum long-term tension of 1000 lbs and short-term tension of 2500 lbs. The Medium Tension dead-end is designed for 2000 lbs for long-term tensions and 4000 lbs for short-term loads. Semi-high or High Tension dead-ends should be used for higher tension ratings.
- Limited Tension dead ends are limited to a maximum span length of 600 feet.
- C1E1 designates thimble clevis and extension link (recommended).
- Aluminum Suspension is designed for in-line support with a maximum angle change of 20° and a maximum span of 600 feet.
- Spans of > 600 to 1200 feet require reinforcing rods (SSR).
- The "S" designates anchor shackle and eye-nut (recommended).
- Vibration dampers may be required.
- Aluminum support is designed for in-line support with a maximum angle change of 20° and a maximum span of 600 feet.

INSTALLATION SPECIFICATIONS

Minimum Bend Radius

With load:	20x cable diameter
No load:	10x cable diameter

Temperature Range

Shipping and Storage	-40° F to +167° F	(-40° C to +75° C)
Installation	-22° F to +140° F	(-30° C to +60° C)
Operation	-40° F to +158° F	(-40° C to +70° C)

Maximum Stringing Tension: 600 lbs

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PRYSMIAN Draka

ezSPAN® ADSS

All-Dielectric Self-Supporting Loose Tube Cable

NESC Light Loading ezSPAN Single Jacket

6-30 Fibers (6 fibers per tube)

Span Distance (ft)	Cable Outside Diameter (in)	Maximum Rated Cable Load (MRCL) (lbs)	Initial Sag (%)	*Cable Part Numbers	PLP Attachment Hardware Part #			
					Dead End	Al Suspension w/o SSR (< 600 ft)	Al Suspension with SSR	Al Support Spans < 600 ft
up to 430	0.393	465	1.5	F-ADSS0465-06-HB-XXX	2872000C1E1	4450198S	-	4450098

12-60 Fibers (12 fibers per tube)

up to 328	0.398	415	1.5	F-ADSS0415-12-HB-XXX[1]	2872000C1E1	4450198S	-	4450098

12-72 Fibers

Span Distance (ft)	Cable Outside Diameter (in)	Maximum Rated Cable Load (MRCL) (lbs)	Initial Sag (%)	*Cable Part Numbers	PLP Attachment Hardware Part #			
					Dead End	Al Suspension w/o SSR (< 600 ft)	Al Suspension with SSR	Al Support Spans < 600 ft
up to 328	0.420	495	1.58	F-ADSS0495-12-HB-XXX	2872001C1E1	4450198S	-	4450098
up to 600	0.482	1025	1.5	F-ADES1025-12-HB-XXX	2872004C1E1	4450200S	4470200S	4450100
700	0.482	1025	1.5	F-ADES1025-12-HB-XXX	2872100C1E1	4450200S	4470200S	4450100
800	0.483	1075	1.5	F-ADES1075-12-HB-XXX	2872100C1E1	4450200S	4470200S	4450100
900	0.486	1205	1.5	F-ADES1205-12-HB-XXX	2872100C1E1	4450200S	4470200S	4450100
1000	0.489	1345	1.5	F-ADES1345-12-HB-XXX	2872100C1E1	4450200S	4470200S	4450100
1100	0.491	1475	1.5	F-ADES1475-12-HB-XXX	2872100C1E1	4450200S	4470200S	4450100
1200	0.494	1615	1.5	F-ADES1615-12-HB-XXX	2872100C1E1	4450200S	4470200S	4450100

84-96 Fibers

Span Distance (ft)	Cable Outside Diameter (in)	Maximum Rated Cable Load (MRCL) (lbs)	Initial Sag (%)	*Cable Part Numbers	PLP Attachment Hardware Part #			
					Dead End	Al Suspension w/o SSR (< 600 ft)	Al Suspension with SSR	Al Support Spans < 600 ft
up to 600	0.567	1025	1.5	F-ADES1025-12-HB-XXX	2872006C1E1	4450201S	4470202S	4450101
700	0.568	1115	1.5	F-ADES1115-12-HB-XXX	2872102C1E1	4450201S	4470202S	4450101
800	0.571	1255	1.5	F-ADES1255-12-HB-XXX	2872102C1E1	4450201S	4470202S	4450101
900	0.574	1435	1.5	F-ADES1435-12-HB-XXX	2872102C1E1	4450201S	4470202S	4450101
1000	0.577	1615	1.5	F-ADES1615-12-HB-XXX	2872102C1E1	4450202S	4470202S	4450102
1100	0.580	1795	1.5	F-ADES1795-12-HB-XXX	2872103C1E1	4450202S	4470202S	4450102
1200	0.582	1925	1.5	F-ADES1925-12-HB-XXX	2872103C1E1	4450202S	4470202S	4450102

108-144 Fibers

Span Distance (ft)	Cable Outside Diameter (in)	Maximum Rated Cable Load (MRCL) (lbs)	Initial Sag (%)	*Cable Part Numbers	PLP Attachment Hardware Part #			
					Dead End	Al Suspension w/o SSR (< 600 ft)	Al Suspension with SSR	Al Support Spans < 600 ft
up to 400	0.733	1025	1.5	F-ADES1025-12-HB-XXX	2872010C1E1	4450204S	4470204S	4450104
500	0.734	1075	1.5	F-ADES1075-12-HB-XXX	2872010C1E1	4450204S	4470204S	4450104
600	0.737	1295	1.5	F-ADES1295-12-HB-XXX	2872010C1E1	4450204S	4470204S	4450104
700	0.740	1525	1.5	F-ADES1525-12-HB-XXX	2872107C1E1	4450204S	4470205S	4450104
800	0.742	1705	1.5	F-ADES1705-12-HB-XXX	2872107C1E1	4450204S	4470205S	4450104
900	0.745	1925	1.5	F-ADES1925-12-HB-XXX	2872107C1E1	4450204S	4470205S	4450104
1000	0.748	2155	1.5	F-ADES2125-12-HB-XXX	2872107C1E1	4450204S	4470205S	4450104

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ezSPAN® ADSS

All-Dielectric Self-Supporting Loose Tube Cable

NESC Medium Loading ezSPAN Single Jacket

6-30 Fibers (6 fibers per tube)

Span Distance (ft)	Cable Outside Diameter (in)	Maximum Rated Cable Load (MRCL) (lbs)	Initial Sag (%)	*Cable Part Numbers	PLP Attachment Hardware Part #			
					Dead End	Al Suspension w/o SSR (< 600 ft)	Al Suspension with SSR	Al Support Spans < 600 ft
280	0.393	465	1.5	F-ADSS0465-06-HB-XXX	287500TE	4450198S	-	4450098

12-72 Fibers

Span Distance (ft)	Cable Outside Diameter (in)	Maximum Rated Cable Load (MRCL) (lbs)	Initial Sag (%)	*Cable Part Numbers	PLP Attachment Hardware Part #			
					Dead End	Al Suspension w/o SSR (< 600 ft)	Al Suspension with SSR	Al Support Spans < 600 ft
up to 500	0.482	1025	1.5	F-ADES1025-12-HB-XXX	2872004C1E1	4450200S	4470200S	4450100
600	0.484	1115	1.5	F-ADES1115-12-HB-XXX	2872004C1E1	4450200S	4470200S	4450100
700	0.488	1295	1.5	F-ADES1295-12-HB-XXX	2872100C1E1	4450200S	4470200S	4450100
800	0.492	1525	1.5	F-ADES1525-12-HB-XXX	2872100C1E1	4450200S	4470200S	4450100
900	0.496	1705	1.5	F-ADES1705-12-HB-XXX	2872100C1E1	4450200S	4470200S	4450100

84-96 Fibers

Span Distance (ft)	Cable Outside Diameter (in)	Maximum Rated Cable Load (MRCL) (lbs)	Initial Sag (%)	*Cable Part Numbers	PLP Attachment Hardware Part #			
					Dead End	Al Suspension w/o SSR (< 600 ft)	Al Suspension with SSR	Al Support Spans < 600 ft
up to 500	0.567	1025	1.5	F-ADES1025-12-HB-XXX	2872006C1E1	4450201S	4470202S	4450101
600	0.571	1255	1.5	F-ADES1255-12-HB-XXX	2872006C1E1	4450201S	4470202S	4450101
700	0.575	1475	1.5	F-ADES1475-12-HB-XXX	2872102C1E1	4450201S	4470202S	4450101
800	0.578	1705	1.5	F-ADES1705-12-HB-XXX	2872103C1E1	4450202S	4470202S	4450102
900	0.582	1885	1.5	F-ADES1885-12-HB-XXX	2872103C1E1	4450202S	4470202S	4450102

108-144 Fibers

Span Distance (ft)	Cable Outside Diameter (in)	Maximum Rated Cable Load (MRCL) (lbs)	Initial Sag (%)	*Cable Part Numbers	PLP Attachment Hardware Part #			
					Dead End	Al Suspension w/o SSR (< 600 ft)	Al Suspension with SSR	Al Support Spans < 600 ft
up to 400	0.733	1025	1.5	F-ADES1025-12-HB-XXX	2872010C1E1	4450204S	4470204S	4450104
500	0.737	1295	1.5	F-ADES1295-12-HB-XXX	2872010C1E1	4450204S	4470204S	4450104
600	0.740	1565	1.5	F-ADES1565-12-HB-XXX	2872011C1E1	4450204S	4470205S	4450104
700	0.744	1835	1.5	F-ADES1835-12-HB-XXX	2872107C1E1	4450204S	4470205S	4450104
800	0.747	2105	1.5	F-ADES2105-12-HB-XXX	2872107C1E1	4450204S	4470205S	4450104
900	0.751	2375	1.5	F-ADES2375-12-HB-XXX	2872107C1E1	4450205S	4470205S	4450105

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All-Dielectric Self-Supporting Loose Tube Cable

NESC Heavy Loading ezSPAN Single Jacket

6-30 Fibers (6 fibers per tube)

Span Distance (ft)	Cable Outside Diameter (in)	Maximum Rated Cable Load (MRCL) (lbs)	Initial Sag (%)	*Cable Part Numbers	PLP Attachment Hardware Part #			
					Dead End	Al Suspension w/o SSR (< 600 ft)	Al Suspension with SSR	Al Support Spans < 600 ft
165	0.393	465	1.5	F-ADSS0465-06-HB-XXX	287500TE	4450198S	-	4450098

12-72 Fibers

Span Distance (ft)	Cable Outside Diameter (in)	Maximum Rated Cable Load (MRCL) (lbs)	Initial Sag (%)	*Cable Part Numbers	PLP Attachment Hardware Part #			
					Dead End	Al Suspension w/o SSR (< 600 ft)	Al Suspension with SSR	Al Support Spans < 600 ft
up to 330	0.482	1025	1.5	F-ADES1025-12-HB-XXX	2872004C1E1	4450200S	4470200S	4450100
350	0.483	1075	1.5	F-ADES1075-12-HB-XXX	2872004C1E1	4450200S	4470200S	4450100
400	0.487	1255	1.5	F-ADES1255-12-HB-XXX	2872004C1E1	4450200S	4470200S	4450100
450	0.490	1385	1.5	F-ADES1385-12-HB-XXX	2872004C1E1	4450200S	4470200S	4450100
500	0.492	1525	1.5	F-ADES1525-12-HB-XXX	2872004C1E1	4450200S	4470200S	4450100
550	0.496	1705	1.5	F-ADES1705-12-HB-XXX	2872004C1E1	4450200S	4470200S	4450100
600	0.500	1885	1.5	F-ADES1885-12-HB-XXX	2872004C1E1	4450200S	4470200S	4450100
700	0.506	2195	1.5	F-ADES2195-12-HB-XXX	2872100C1E1	4450200S	4470201S	4450100

84-96 Fibers

Span Distance (ft)	Cable Outside Diameter (in)	Maximum Rated Cable Load (MRCL) (lbs)	Initial Sag (%)	*Cable Part Numbers	PLP Attachment Hardware Part #			
					Dead End	Al Suspension w/o SSR (< 600 ft)	Al Suspension with SSR	Al Support Spans < 600 ft
up to 310	0.567	1025	1.5	F-ADES1025-12-HB-XXX	2872006C1E1	4450201S	4470202S	4450101
350	0.569	1165	1.5	F-ADES1165-12-HB-XXX	2872006C1E1	4450201S	4470202S	4450101
400	0.572	1345	1.5	F-ADES1345-12-HB-XXX	2872006C1E1	4450201S	4470202S	4450101
450	0.575	1525	1.5	F-ADES1525-12-HB-XXX	2872006C1E1	4450201S	4470202S	4450101
500	0.578	1705	1.5	F-ADES1705-12-HB-XXX	2872007C1E1	4450202S	4470202S	4450102
550	0.582	1885	1.5	F-ADES1885-12-HB-XXX	2872007C1E1	4450202S	4470202S	4450102
600	0.584	2015	1.5	F-ADES2015-12-HB-XXX	2872007C1E1	4450202S	4470202S	4450102
700	0.590	2375	1.5	F-ADES2375-12-HB-XXX	2872103C1E1	4450202S	4470202S	4450102

108-144 Fibers

Span Distance (ft)	Cable Outside Diameter (in)	Maximum Rated Cable Load (MRCL) (lbs)	Initial Sag (%)	*Cable Part Numbers	PLP Attachment Hardware Part #			
					Dead End	Al Suspension w/o SSR (< 600 ft)	Al Suspension with SSR	Al Support Spans < 600 ft
up to 250	0.733	1025	1.5	F-ADES1025-12-HB-XXX	2872010C1E1	4450204S	4470204S	4450104
300	0.736	1205	1.5	F-ADES1205-12-HB-XXX	2872010C1E1	4450204S	4470204S	4450104
350	0.738	1385	1.5	F-ADES1385-12-HB-XXX	2872010C1E1	4450204S	4470205S	4450104
400	0.741	1615	1.5	F-ADES1615-12-HB-XXX	2872011C1E1	4450204S	4470205S	4450104
450	0.743	1795	1.5	F-ADES1795-12-HB-XXX	2872011C1E1	4450204S	4470205S	4450104
500	0.746	1975	1.5	F-ADES1975-12-HB-XXX	2872011C1E1	4450204S	4470205S	4450104
550	0.748	2195	1.5	F-ADES2195-12-HB-XXX	2872011C1E1	4450204S	4470205S	4450104
600	0.751	2375	1.5	F-ADES2375-12-HB-XXX	2872011C1E1	4450205S	4470205S	4450105

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ezSPAN® ADSS

All-Dielectric Self-Supporting Loose Tube Cable

NESC Light Loading ezSPAN Double Jacket

12-72 Fibers

Span Distance (ft)	Cable Outside Diameter (in)	Maximum Rated Cable Load (MRCL) (lbs)	Initial Sag (%)	*Cable Part Numbers	PLP Attachment Hardware Part #			
					Dead End	Al Suspension w/o SSR (< 600 ft)	Al Suspension with SSR	Al Support Spans < 600 ft
up to 600	0.533	1031	1.5	F-ADED1031-12-HB-XXX	2872005C1E1	4450201S	4470201S	4450101
700	0.534	1071	1.5	F-ADED1071-12-HB-XXX	2872101C1E1	4450201S	4470201S	4450101
800	0.537	1211	1.5	F-ADED1211-12-HB-XXX	2872101C1E1	4450201S	4470201S	4450101
900	0.540	1391	1.5	F-ADED1391-12-HB-XXX	2872101C1E1	4450201S	4470201S	4450101
1000	0.542	1521	1.5	F-ADED1521-12-HB-XXX	2872101C1E1	4450201S	4470201S	4450101
1100	0.546	1701	1.5	F-ADED1701-12-HB-XXX	2872102C1E1	4450201S	4470201S	4450101
1200	0.549	1881	1.5	F-ADED1881-12-HB-XXX	2872102C1E1	4450201S	4470201S	4450101
1300	0.552	2021	1.5	F-ADED2021-12-HB-XXX	2872102C1E1	4450201S	4470202S	4450101
1400	0.555	2201	1.5	F-ADED2201-12-HB-XXX	2872102C1E1	4450201S	4470202S	4450101
1500	0.558	2381	1.5	F-ADED2381-12-HB-XXX	2872102C1E1	4450201S	4470202S	4450101
1600	0.561	2561	1.5	F-ADED2561-12-HB-XXX	2872102C1E1	4450201S	4470202S	4450101

84-96 Fibers

Span Distance (ft)	Cable Outside Diameter (in)	Maximum Rated Cable Load (MRCL) (lbs)	Initial Sag (%)	*Cable Part Numbers	PLP Attachment Hardware Part #			
					Dead End	Al Suspension w/o SSR (< 600 ft)	Al Suspension with SSR	Al Support Spans < 600 ft
up to 575	0.618	1031	1.5	F-ADED1031-12-HB-XXX	2872008C1E1	4450202S	4470202S	4450102
600	0.619	1071	1.5	F-ADED1071-12-HB-XXX	2872008C1E1	4450202S	4470202S	4450102
700	0.622	1251	1.5	F-ADED1251-12-HB-XXX	2872104C1E1	4450202S	4470202S	4450102
800	0.625	1431	1.5	F-ADED1431-12-HB-XXX	2872104C1E1	4450202S	4470202S	4450102
900	0.628	1661	1.5	F-ADED1661-12-HB-XXX	2872104C1E1	4450203S	4470203S	4450103
1000	0.631	1841	1.5	F-ADED1841-12-HB-XXX	2872104C1E1	4450203S	4470203S	4450103
1100	0.634	2021	1.5	F-ADED2021-12-HB-XXX	2872104C1E1	4450203S	4470203S	4450103
1200	0.636	2201	1.5	F-ADED2201-12-HB-XXX	2872104C1E1	4450203S	4470203S	4450103
1300	0.640	2421	1.5	F-ADED2421-12-HB-XXX	2872104C1E1	4450203S	4470203S	4450103
1400	0.643	2621	1.5	F-ADED2621-12-HB-XXX	2872104C1E1	4450203S	4470203S	4450103

108-144 Fibers

Span Distance (ft)	Cable Outside Diameter (in)	Maximum Rated Cable Load (MRCL) (lbs)	Initial Sag (%)	*Cable Part Numbers	PLP Attachment Hardware Part #			
					Dead End	Al Suspension w/o SSR (< 600 ft)	Al Suspension with SSR	Al Support Spans < 600 ft
up to 425	0.785	1031	1.5	F-ADED1031-12-HB-XXX	2872012C1E1	4450205S	4470205S	4450105
500	0.787	1211	1.5	F-ADED1211-12-HB-XXX	2872012C1E1	4450205S	4470205S	4450105
600	0.791	1481	1.5	F-ADED1481-12-HB-XXX	2872012C1E1	4450205S	4470205S	4450105
700	0.793	1701	1.5	F-ADED1701-12-HB-XXX	2872108C1E1	4450205S	4470205S	4450105
800	0.796	1971	1.5	F-ADED1971-12-HB-XXX	2872108C1E1	4450205S	4470205S	4450105
900	0.799	2201	1.5	F-ADED2201-12-HB-XXX	2872108C1E1	4450205S	4470205S	4450105
1000	0.802	2471	1.5	F-ADED2471-12-HB-XXX	2872108C1E1	4450205S	4470205S	4450105
1100	0.806	2751	1.5	F-ADED2751-12-HB-XXX	2872108C1E1	4450205S	4470205S	4450105

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All-Dielectric Self-Supporting Loose Tube Cable

NESC Medium Loading ezSPAN Double Jacket

12-72 Fibers

Span Distance (ft)	Cable Outside Diameter (in)	Maximum Rated Cable Load (MRCL) (lbs)	Initial Sag (%)	*Cable Part Numbers	PLP Attachment Hardware Part #			
					Dead End	Al Suspension w/o SSR (< 600 ft)	Al Suspension with SSR	Al Support Spans < 600 ft
up to 500	0.533	1031	1.5	F-ADED1031-12-HB-XXX	2872005C1E1	4450201S	4470201S	4450101
600	0.537	1211	1.5	F-ADED1211-12-HB-XXX	2872005C1E1	4450201S	4470201S	4450101
700	0.541	1431	1.5	F-ADED1431-12-HB-XXX	2872101C1E1	4450201S	4470201S	4450101
800	0.545	1661	1.5	F-ADED1661-12-HB-XXX	2872102C1E1	4450201S	4470201S	4450101
900	0.549	1881	1.5	F-ADED1881-12-HB-XXX	2872102C1E1	4450201S	4470201S	4450101
1000	0.553	2111	1.5	F-ADED2111-12-HB-XXX	2872102C1E1	4450201S	4470202S	4450101
1100	0.556	2291	1.5	F-ADED2291-12-HB-XXX	2872102C1E1	4450201S	4470202S	4450101

84-96 Fibers

Span Distance (ft)	Cable Outside Diameter (in)	Maximum Rated Cable Load (MRCL) (lbs)	Initial Sag (%)	*Cable Part Numbers	PLP Attachment Hardware Part #			
					Dead End	Al Suspension w/o SSR (< 600 ft)	Al Suspension with SSR	Al Support Spans < 600 ft
up to 450	0.618	1031	1.5	F-ADED1031-12-HB-XXX	2872008C1E1	4450202S	4470202S	4450102
500	0.620	1161	1.5	F-ADED1161-12-HB-XXX	2872008C1E1	4450202S	4470202S	4450102
600	0.624	1391	1.5	F-ADED1391-12-HB-XXX	2872008C1E1	4450202S	4470202S	4450102
700	0.627	1611	1.5	F-ADED1611-12-HB-XXX	2872104C1E1	4450203S	4470203S	4450103
800	0.631	1841	1.5	F-ADED1841-12-HB-XXX	2872104C1E1	4450203S	4470203S	4450103
900	0.635	2111	1.5	F-ADED2111-12-HB-XXX	2872104C1E1	4450203S	4470203S	4450103
1000	0.638	2331	1.5	F-ADED2331-12-HB-XXX	2872104C1E1	4450203S	4470203S	4450103
1100	0.643	2621	1.5	F-ADED2621-12-HB-XXX	2872104C1E1	4450203S	4470203S	4450103

108-144 Fibers

Span Distance (ft)	Cable Outside Diameter (in)	Maximum Rated Cable Load (MRCL) (lbs)	Initial Sag (%)	*Cable Part Numbers	PLP Attachment Hardware Part #			
					Dead End	Al Suspension w/o SSR (< 600 ft)	Al Suspension with SSR	Al Support Spans < 600 ft
up to 350	0.785	1031	1.5	F-ADED1031-12-HB-XXX	2872012C1E1	4450205S	4470205S	4450105
400	0.787	1161	1.5	F-ADED1161-12-HB-XXX	2872012C1E1	4450205S	4470205S	4450105
500	0.790	1431	1.5	F-ADED1431-12-HB-XXX	2872012C1E1	4450205S	4470205S	4450105
600	0.794	1751	1.5	F-ADED1751-12-HB-XXX	2872012C1E1	4450205S	4470205S	4450105
700	0.797	2021	1.5	F-ADED2021-12-HB-XXX	2872108C1E1	4450205S	4470205S	4450105
800	0.801	2331	1.5	F-ADED2331-12-HB-XXX	2872108C1E1	4450205S	4470205S	4450105
900	0.804	2621	1.5	F-ADED2621-12-HB-XXX	2872108C1E1	4450205S	4470205S	4450105

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12-72 Fibers

Span Distance (ft)	Cable Outside Diameter (in)	Maximum Rated Cable Load (MRCL) (lbs)	Initial Sag (%)	*Cable Part Numbers	PLP Attachment Hardware Part #			
					Dead End	Al Suspension w/o SSR (< 600 ft)	Al Suspension with SSR	Al Support Spans < 600 ft
up to 300	0.533	1031	1.5	F-ADED1031-12-HB-XXX	2872005C1E1	4450201S	4470201S	4450101
350	0.536	1161	1.5	F-ADED1161-12-HB-XXX	2872005C1E1	4450201S	4470201S	4450101
400	0.539	1341	1.5	F-ADED1341-12-HB-XXX	2872005C1E1	4450201S	4470201S	4450101
450	0.542	1481	1.5	F-ADED1481-12-HB-XXX	2872005C1E1	4450201S	4470201S	4450101
500	0.545	1661	1.5	F-ADED1661-12-HB-XXX	2872006C1E1	4450201S	4470201S	4450101
550	0.548	1841	1.5	F-ADED1841-12-HB-XXX	2872006C1E1	4450201S	4470201S	4450101
600	0.552	2021	1.5	F-ADED2021-12-HB-XXX	2872006C1E1	4450201S	4470202S	4450101
650	0.555	2201	1.5	F-ADED2201-12-HB-XXX	2872102C1E1	4450201S	4470202S	4450101
700	0.558	2381	1.5	F-ADED2381-12-HB-XXX	2872102C1E1	4450201S	4470202S	4450101
750	0.560	2511	1.5	F-ADED2511-12-HB-XXX	2872102C1E1	4450201S	4470202S	4450101

84-96 Fibers

Span Distance (ft)	Cable Outside Diameter (in)	Maximum Rated Cable Load (MRCL) (lbs)	Initial Sag (%)	*Cable Part Numbers	PLP Attachment Hardware Part #			
					Dead End	Al Suspension w/o SSR (< 600 ft)	Al Suspension with SSR	Al Support Spans < 600 ft
up to 290	0.618	1031	1.5	F-ADED1031-12-HB-XXX	2872008C1E1	4450202S	4470202S	4450102
300	0.619	1071	1.5	F-ADED1071-12-HB-XXX	2872008C1E1	4450202S	4470202S	4450102
350	0.622	1251	1.5	F-ADED1251-12-HB-XXX	2872008C1E1	4450202S	4470202S	4450102
400	0.625	1431	1.5	F-ADED1431-12-HB-XXX	2872008C1E1	4450202S	4470202S	4450102
450	0.627	1611	1.5	F-ADED1611-12-HB-XXX	2872008C1E1	4450203S	4470203S	4450103
500	0.631	1841	1.5	F-ADED1841-12-HB-XXX	2872008C1E1	4450203S	4470203S	4450103
550	0.634	2021	1.5	F-ADED2021-12-HB-XXX	2872008C1E1	4450203S	4470203S	4450103
600	0.636	2201	1.5	F-ADED2201-12-HB-XXX	2872008C1E1	4450203S	4470203S	4450103
650	0.639	2381	1.5	F-ADED2381-12-HB-XXX	2872104C1E1	4450203S	4470203S	4450103
700	0.642	2561	1.5	F-ADED2561-12-HB-XXX	2872104C1E1	4450203S	4470203S	4450103

108-144 Fibers

Span Distance (ft)	Cable Outside Diameter (in)	Maximum Rated Cable Load (MRCL) (lbs)	Initial Sag (%)	*Cable Part Numbers	PLP Attachment Hardware Part #			
					Dead End	Al Suspension w/o SSR (< 600 ft)	Al Suspension with SSR	Al Support Spans < 600 ft
up to 240	0.785	1031	1.5	F-ADED1031-12-HB-XXX	2872012C1E1	4450205S	4470205S	4450105
250	0.786	1071	1.5	F-ADED1071-12-HB-XXX	2872012C1E1	4450205S	4470205S	4450105
300	0.788	1301	1.5	F-ADED1301-12-HB-XXX	2872012C1E1	4450205S	4470205S	4450105
350	0.791	1521	1.5	F-ADED1521-12-HB-XXX	2872012C1E1	4450205S	4470205S	4450105
400	0.794	1751	1.5	F-ADED1751-12-HB-XXX	2872012C1E1	4450205S	4470205S	4450105
450	0.796	1931	1.5	F-ADED1931-12-HB-XXX	2872012C1E1	4450205S	4470205S	4450105
500	0.798	2157	1.5	F-ADED2157-12-HB-XXX	2872012C1E1	4450205S	4470205S	4450105
550	0.801	2381	1.5	F-ADED2381-12-HB-XXX	2872012C1E1	4450205S	4470205S	4450105
600	0.804	2621	1.5	F-ADED2621-12-HB-XXX	2872108C1E1	4450205S	4470205S	4450105

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ORDERING CHECK LIST

1	Installation Location:	City _____ State _____
2	Cable Length Marking	☐ Feet ☐ Meters
3	# of Jackets:	☐ Single Jacket ☐ Dual Jacket
4	Number of Fibers:	_____
5	Fiber Type & Grade:	_____
6	Max. Span Length: (ft or m)	_____
7	Installation Sag:	☐ 1.5% ☐ Other (Please Specify) _____
8	NESC Loading Condition:	☐ Light ☐ Medium ☐ Heavy
		☐ Other (Define Ice & Wind Load) _____
9	Line Voltage:	☐ None ☐ Distribution Line
		Transmission Line _____ Phase to Phase (kV) _____ Phase to Ground _____
10	Fiber Strain:	☐ Safe Strain ☐ Zero Strain

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Ordering Guide

The Prysmian Group part number incorporates several significant attributes involving cable design and optical performance. The appropriate part number can be configured using the process described below

Example: ezSpan™ ADSS | single jacket (12 fibers/tube) with 144 single-mode fibers (printed in feet)

1 LENGTH MARKINGS	2 PRODUCT FAMILY	3 CONSTRUCTION	4 LOAD RATING	5 FIBER GROUPING	6 FIBER TYPE	7 FIBER COUNT	8 FIBER GRADE
F	– ADE	S	XXXX	– 12	– HB	– 144	– E3

PART NUMBER CONSTRUCTION

1 LENGTH MARKINGS

F = Feet or M = Meters

2 PRODUCT FAMILY

ADE = ezSpan ADSS

ADS = Short Span ADSS

3 CONSTRUCTION

S = Single Jacket

D = Double Jacket

4 LOAD RATING

Max Rated Cable Load (lbs)

5 FIBER GROUPING

12 = 12f per tube

FIBER INFORMATION

6 FIBER TYPE

SINGLE-MODE
HB = Single-Mode (ITU G.652 C & D) Low Water Peak
ES = Enhanced Single-Mode (ITU G.652 C & D)
CE = Corning™ SMF28e+ Single-Mode
B1 = Bend-Insenitive Single-Mode (ITU G.657.A1 & G.652.D)
B2 = Bend-Insenitive Single-Mode (ITU G.657.A2 & .B2, & G.652.D)
TU = TeraLight™ Ultra Single-Mode (ITU G.655 & G.656)
LE = LEAF NZDSF (ITU G.655)

MULTIMODE	Wavelength (nm)	Bandwidth (MHz)	1 GbE Dist (m)	10 GbE Dist (m)
G6 = OM1 (62.5µm)	850/1300	200/500	300/550	33/___
G5 = OM2+ BIF (50µm)	850/1300	700/500	800	150/___
G3 = OM3 BIF (50µm)	850/1300	1500/500	1000	300/___
G4 = OM4 BIF (50µm)	850/1300	3500/500	1100	550/___

7 FIBER COUNT

004 to 144 fibers

8 FIBER GRADE

SINGLE-MODE Attenuation (dB/km)	Wavelength (nm)	Fiber Type
E1 = 0.40/0.40/0.30	1310/1383/1550	HB, ES, or CE
E3 = 0.35/0.35/0.25	1310/1383/1550	HB, ES, CE, B1, or B2
NA = 0.40/0.25	1310/1550	TeraLight™ Ultra Single-Mode
N1 = 0.25	1550	LEAF Single-Mode

MULTIMODE Attenuation (dB/km)	Wavelength (nm)
M2 = 3.5/1.0	850/1300
M3 = 3.0/1.0	850/1300

Other cable constructions and fiber performance grades available on request.

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Prysmian Group Introduces New Ultra-Compact, Flexible Ribbon Technology at 2018 ISE Expo

New FlexRibbon™ products can reach 3456 optical fiber to offer increased functionality to data centers nationwide

Highland Heights, Kentucky – July 31, 2018 – Prysmian Group North America, a world leader in the energy and telecom cable systems industries, recently announced the rollout of two enhancements to its line of FlexRibbon™ products. This new line of products, which feature MassLink™ with FlexRibbon™ Technology and will support large-scale data centers operated by major companies across the U.S., will be debuted in North America at the upcoming 2018 ISE Expo in Denver, CO.

"We are thrilled to rollout these new enhancements to our FlexRibbon™ line in anticipation of Prysmian expanding into new markets," said Massimo Battaini, CEO for Prysmian Group North America. "As the demand for more powerful, higher-density cables continues to increase, this latest offering will be a key asset for large companies to navigate underground duct networks."

Designed to maximize fiber density and duct space utilization, Prysmian's MassLink™ with FlexRibbon™ Technology products compact the maximum fiber count into the smallest cable possible by using extremely flexible fiber ribbons that can either be rolled up for high packing densities or laid flat for ribbon splicing. The new 1728 and 3456 fiber count FlexRibbon™ products feature an ultra-compact outside plant cable design that contains bend insensitive fibers, small enough to fit into a 1.25" and 1.50" duct, respectively.

"We began development of our FlexRibbon™ Technology product line to meet the needs of customers here in North America with hyperscale and colocation data centers that require ultra-compact design and efficient installation," said Stephen Szymanski, Vice President of Telecom for Prysmian Group North America. "We have continued to heavily invest in the R&D of FlexRibbon™ technology, employing the most advanced equipment, which has led to the development of these new FlexRibbon™ product offerings."

The significantly smaller diameter and lighter weight cables have superior kink resistance and increased flexibility, which allows for easier installation and the use of smaller ducts. In the case of the 1728 fiber design, there is a 21 percent smaller diameter (38 percent volume reduction) over traditional flat ribbon designs. And while the new FlexRibbon™ products provide high packing density, they also feature 200 and 250-micron fiber ribbons that still provide the advantages of mass fusion splicing.

-more-

With this latest product enhancement, Prysmian Group is reaffirming its commitment to investing in its optical fiber and cable capacities to respond to the evolving needs of the market and support its customers in developing new, reliable and efficient broadband networks.

Join us for the introduction of these new products at the upcoming 2018 ISE Expo. Held from August 14-16 in Denver, CO, the ISE Expo is the ICT industry's premier educational event for wireline and wireless network evolution.

Come visit us at our booth (#827) and for more information about Prysmian Group, visit na.prysmiangroup.com.

About Prysmian Group North America
Prysmian Group serves both the telecom and energy cable markets in North America with over 5,800 employees at 23 plants across the continent and sales of over $1.5 billion in 2016. Headquartered in Highland Heights, Kentucky, Prysmian's North American Telecom Solutions unit produces a range of high-quality copper and fiber optic cable and solutions for data, video and voice transmission applications. In the energy sector, the company offers end-to-end underground cables solutions for the transmission and distribution of low, medium, high and extra high voltage systems. Prysmian Group has two fiber optic manufacturing facilities in the United States, including the only co-located fiber and cable facility in North America. Prysmian Group is a public company, listed on the Italian Stock Exchange in the FTSE MIB index.

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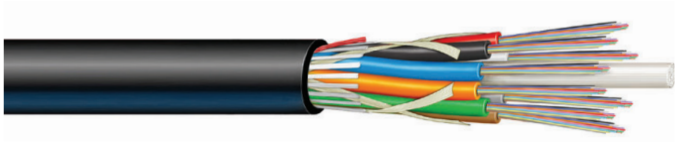
Release No. 1067

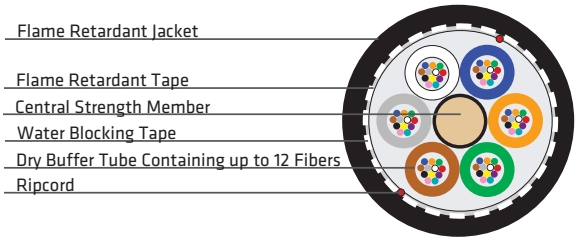
Prysmian Group

PRYSMIAN Draka

CampusLink LT™ Dry Loose Tube | Indoor/Outdoor

Indoor-outdoor riser and plenum cables





Versatile indoor-outdoor flame rated fiber cables - ideal for interbuilding and building transition applications

Overview

Prysmian's indoor-outdoor dry loose tube riser or plenum designs provide flame-rated network solutions for a diverse number of network applications. These cables combine flexible dry buffer tubes and swellable water blocking materials with Prysmian's extensive portfolio of single-mode and multimode optical fibers. Incorporating proven outside plant design elements, this cable may be employed in outdoor aerial lashed, duct, and direct buried environments.

Because of its application diversity, this advanced product eliminates the necessity and expense for traditional cable transition points once required in legacy systems. Cost savings and system long term reliability are achieved by enabling cable placement virtually anywhere in the network.

Product Snapshot

Applications	Multi-purpose indoor/outdoor aerial, lashed, duct, and direct buried
Constructions	Dielectric (single & dual jacket), ezPREP® corrugated armor, interlock armor
Flame Ratings	Riser (OFNR / OFCR / FT4) / Plenum (OFNP/OFCP/FT6)
Fiber Count	2 to 288 (Riser) / 2-144 (Plenum)
Fiber Types	Single-mode (ESMF, bend-insensitive) multimode (62.5/125-OM1, 50/125-OM2+, OM3 & OM4)
Standards	TIA/EIA-568, ANSI/ICEA S-83-596, ANSI/ICEA S-104-696, UL-1666, NFPA 262, CSA 22.2 No 230, Telcordia GR-409, Telcordia GR-20, CE RoHS Compliant
Registered Supplier	ISO 9001, ISO 14001, TL 9000, and OHSAS 18001

Features and Benefits

- Fiber identification using TIA standardized color coding
- Dry buffer tubes simplifies access and reduces prep time
- Flame-retardant, black UV-resistant outer jacket
- Flexible kink-resistant buffer tubes for routing and storage
- Available with bend-insensitive single-mode and multimode optical fibers
- Interlock armor designs available for added durability
- Will support all high performance networks including OM4/10 gigabit ethernet systems

CE RoHS Compliant

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500B DS022 CAMPUSLINK LT DRY INDOOR OUTDOOR 10-16

Prysmian Group

PRYSMIAN Draka

CampusLink LT™ Dry Loose Tube | Indoor/Outdoor

Indoor-outdoor riser and plenum cables

CampusLink LT™ I/O Riser Dielectric (Single Jacket - Dry) DRLDB Series | OFNR / FT4

Fiber Count	# Buffer Tubes Outer/Inner Layer	Fibers per Unit or # of Units	Diameter Inches (mm)	Cable Weight lb/kft (kg/km)	Bend Radius Load Inches (cm)	Bend Radius No Load Inches (cm)
2 to 60	5	12	0.40 (10.1)	63 (93)	8.0 (20.2)	4.0 (10.1)
62 to 72	6	12	0.43 (10.8)	69 (102)	8.6 (21.7)	4.3 (10.9)
74 to 84	7	12	0.47 (12.0)	85 (126)	9.5 (24.0)	4.8 (12.0)
86 to 96	8	12	0.50 (12.8)	96 (143)	10.1 (25.6)	5.1 (12.8)
98 to 108	9	12	0.55 (13.9)	114 (169)	11.0 (27.8)	5.5 (13.9)
110 to 120	10	12	0.57 (14.5)	123 (183)	11.4 (29.0)	5.7 (14.5)
122 to 132	11	12	0.60 (15.4)	139 (207)	12.1 (30.8)	6.1 (15.4)
134 to 144	12	12	0.64 (16.3)	158 (234)	12.9 (32.7)	6.5 (16.4)
146 to 216	12 / 6	12	0.67 (17.0)	153 (228)	13.5 (34.1)	6.8 (17.1)
218 to 264	14 / 8	12	0.73 (18.6)	184 (273)	14.7 (37.3)	7.4 (18.7)
266 to 288	15 / 9	12	0.78 (19.7)	205 (305)	15.6 (39.5)	7.8 (19.8)

Note: the compression rating for counts of 60 and below is 100N/cm.

CampusLink LT™ I/O Riser Dielectric (Double Jacket - Dry) DRLDC Series | OFNR / FT4

Fiber Count	# Buffer Tubes Outer/Inner Layer	Fibers per Unit or # of Units	Diameter Inches (mm)	Cable Weight lb/kft (kg/km)	Bend Radius Load Inches (cm)	Bend Radius No Load Inches (cm)
2 to 60	5	12	0.52 (13.2)	114 (169)	10.4 (26.4)	5.2 (13.2)
62 to 72	6	12	0.55 (13.9)	123 (183)	11.0 (27.9)	5.5 (14.0)
74 to 84	7	12	0.59 (15.1)	144 (214)	11.9 (30.2)	6.0 (15.1)
86 to 96	8	12	0.63 (15.9)	159 (237)	12.6 (31.8)	6.3 (15.9)
98 to 108	9	12	0.67 (17.0)	181 (270)	13.4 (34.0)	6.7 (17.0)
110 to 120	10	12	0.69 (17.6)	194 (288)	13.9 (35.2)	7.0 (17.6)
122 to 132	11	12	0.73 (18.5)	214 (318)	14.6 (37.0)	7.3 (18.5)
134 to 144	12	12	0.76 (19.4)	237 (352)	15.3 (38.9)	7.7 (19.5)

Note. Cable damage may occur if installation temperature limits are exceeded; therefore, Prysmian Group recommend storing I/O cables in appropriate temperature conditions ≥ 24 hours prior to placement.

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CampusLink LT™ Dry Loose Tube | Indoor/Outdoor

Indoor-outdoor riser and plenum cables

CampusLink LT™ I/O Riser with Corrugated Armor (1A 2J - Dry) DRLDD Series | OFCR / FT4

Fiber Count	# Buffer Tubes Outer/Inner Layer	Fibers per Unit or # of Units	Diameter inches (mm)	Cable Weight lb/kft (kg/km)	Bend Radius Load inches (cm)	Bend Radius No Load inches (cm)
2 to 60	5	12	0.63 (16.0)	190 (283)	12.6 (32.0)	6.3 (16.0)
62 to 72	6	12	0.66 (16.8)	204 (304)	13.2 (33.6)	6.6 (16.8)
74 to 84	7	12	0.71 (18.0)	231 (344)	14.2 (36.1)	7.1 (18.1)
86 to 96	8	12	0.74 (18.8)	250 (372)	14.8 (37.6)	7.4 (18.8)
98 to 108	9	12	0.78 (19.8)	278 (413)	15.6 (40.0)	7.8 (19.9)
110 to 120	10	12	0.80 (20.3)	294 (438)	16.0 (40.7)	8.0 (20.4)
122 to 132	11	12	0.84 (21.3)	320 (476)	16.8 (42.7)	8.4 (21.4)
134 to 144	12	12	0.88 (22.4)	347 (517)	17.6 (44.7)	8.8 (22.4)

CampusLink LT™ I/O Plenum Dielectric (Single Jacket) DPLDB Series | OFNP/FT6

Fiber Count	# Buffer Tubes Outer/Inner Layer	Fibers per Unit or # of Units	Diameter Inches (mm)	Cable Weight lb/kft (kg/km)	Bend Radius Load Inches (cm)	Bend Radius No Load Inches (cm)
2 to 60	5	12	0.37 (9.3)	55 (82)	7.4 (18.8)	3.7 (9.4)
62 to 72	6	12	0.40 (10.2)	67 (99)	8.0 (20.4)	4.0 (10.2)
74 to 84	7	12	0.44 (11.1)	80 (119)	8.8 (22.4)	4.4 (11.2)
86 to 96	8	12	0.48 (12.2)	97 (145)	9.6 (24.4)	4.8 (12.2)
98 to 144	12 / 6	12	0.61 (15.6)	138 (206)	12.2 (31.0)	6.1 (15.5)

Temperature Range

Shipping and Storage:	**(Riser)**	-58° F to +158° F	(-50° C to +70° C)
	(Plenum)	-40° F to +158° F	(-40° C to +70° C)
Installation:	**(Riser)**	+14° F to +140° F	(-10° C to +60° C)
	(Plenum)	+32° F to +140° F	(0° C to +60° C)
Operation:	**(Riser)**	-58° F to +158° F	(-50° C to +70° C)
	(Plenum)	-40° F to +158° F	(-40° C to +70° C)

Riser & Plenum Mechanical Specifications

Maximum installation load: 600 lbf (2670 N)
Maximum operation load: 180 lbf (801 N)

Note. Cable damage may occur if installation temperature limits are exceeded; therefore, Prysmian Group recommends storing I/O cables in appropriate temperature conditions ≥ 24 hours prior to placement.

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500B DS022 CAMPUSLINK LT DRY INDOOR OUTDOOR 10-16

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Ordering Guide

The Prysmian Group part number incorporates several significant attributes involving cable design and optical performance. The appropriate part number can be configured using the process described below.

Example: **CampusLink LT™ loose tube | indoor-outdoor riser | dry buffer tubes | dielectric (single jacket) with aluminum interlock armor 12 -62.5/125 multimode fibers per buffer tube | 48 fibers total (printed in feet)**

1 LENGTH MARKINGS	2 PRODUCT FAMILY	3 CONSTRUCTION	4 FIBER GROUPING	5 FIBER TYPE	6 FIBER COUNT	7 FIBER GRADE
F	DRLDB	AJ	12	G6	048	M2

PART NUMBER CONSTRUCTION

1 LENGTH MARKINGS

F = Feet or M = Meters

2 PRODUCT FAMILY

Riser / FT4 | Dry Tubes | OFNR / FT4

DRLDB = Indoor-Outdoor Riser All-Dielectric (single jacket) 2 to 288

DRLDC = Indoor-Outdoor Riser, All-Dielectric (double jacket) 2 to 144

Riser / FT4 | Dry Tubes | OFCR / FT4

DRLDD = Indoor-Outdoor Riser, Armored (double jacket) 2 to 144

Plenum / FT6 | Dry Tubes | OFNP /FT6

DPLDB = Indoor-Outdoor Plenum, All-Dielectric (single jacket) 2 to 144

3 CONSTRUCTION

(blank) = none

AJ = Jacketed aluminum (use with DRLDB and DPLDB)

SJ = Jacketed steel (use with DRLDB and DPLDB)

4 FIBER GROUPING

12 = 12f per unit or tube

FIBER INFORMATION

5 FIBER TYPE

SINGLE-MODE

HB = Single-Mode (ITU G.652 C & D) Low Water Peak

ES = Enhanced Single-Mode (ITU G.652 C & D)

CE = Corning™ SMF28e+ Single-Mode

B1 = Bend-Insensitive Single-Mode (ITU G.657.A1 & G.652.D)

B2 = Bend-Insensitive Single-Mode (ITU G.657.A2 & .B2, & G.652.D)

MULTIMODE	Wavelength (nm)	Bandwidth (MHz)	1 GbE Dist (m)	10 GbE Dist (m)
G6 = OM1 (62.5µm)	850/1300	200/500	300/550	33/___
G5 = OM2+ BIF (50µm)	850/1300	700/500	800	150/___
G3 = OM3 BIF (50µm)	850/1300	1500/500	1000	300/___
G4 = OM4 BIF (50µm)	850/1300	3500/500	1100	550/___

6 FIBER COUNT

002 to 288 fibers

7 FIBER GRADE

SINGLE-MODE Attenuation (dB/km)	Wavelength (nm)	Fiber Type
E1 = 0.40/0.40/0.30	1310/1383/1550	HB, ES, or CE
E3 = 0.35/0.35/0.25	1310/1383/1550	HB, ES, B1, B2 or CE

MULTIMODE Attenuation (dB/km)	Wavelength (nm)
M2 = 3.5/1.0	850/1300
M3 = 3.0/1.0	850/1300

Other cable constructions and fiber performance grades available on request.

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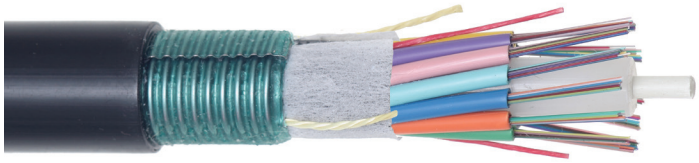
500B DS022 CAMPUSLINK LT DRY INDOOR OUTDOOR 10-16

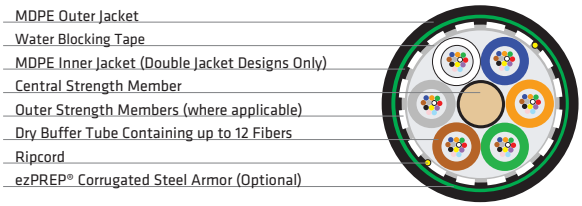
Prysmian Group

PRYSMIAN Draka

ExpressLT™ Dry

Dry loose tube cable (2.5 mm)





A versatile, multi-purpose fiber cable designed for ease of use and buffer tube mid-span storage applications

Overview

Prysmian's popular ExpressLT™ cable combines buffer tubes with enhanced flexibility, a completely dry water-blocking system, and optional ezPREP® armor. The buffer tubes are also rated for mid-span storage applications. This combination of features makes ExpressLT™ an ideal solution for applications requiring frequent sheath access and express tube storage.

Product Snapshot

Applications	Multi-purpose outdoor, aerial lashed, duct, direct buried (when armored)
Constructions	Dielectric, armored, double armored, dual jacket
Count	4 to 432 fibers in color-coded buffer tubes
Fiber Types	Single-mode, multimode, bend-insensitive SM, NZDS
Options	Steel central member, 22 or 24 AWG copper pair(s), 16 AWG tonewire, striped Jacket, factory-installed pulling eye
Similar Alternatives	Gel-filled buffer tubes / LT 2.0 / heavy duty / central / indoor-outdoor / indoor / self-support / microduct
Performance	Tested in accordance with TIA 455 series FOTPs for fiber optic cables. Complies with ICEA 640, RUS 7 CFR 1755 (PE90 listed), Telcordia GR-20, and IEC 60794-3-11

RUS LISTED

Features and Benefits

Easy Cable Entry and Preparation

- Dry water-blocked core speeds cable access
- Dry, water-blocked tubes reduce prep time by an average of 15 minutes per cable end
- Available with ezPREP® armor to allow easy access to the core in mid-sheath entries
- Reverse oscillating stranded core facilitates mid-span access of fibers. Tubes can easily be removed from the core
- Ripcord speeds cable entry & outer jacket removal

Available with ezPREP® Armor

- The jacket can be easily separated from the armor without a heat gun or torch
- Armored cable access, bonding and grounding are faster, easier and safer

Flexible Routing and Termination

- Buffer tubes can be stored in FTTx pedestals, closures and cabinets in lengths up to 20'
- 2.5mm buffer tubes with enhanced flexibility simplify routing and splice preparation

Multi-Purpose Design

- Suitable for aerial lashed, duct, and direct buried installation (when armored)
- Small diameter and light weight, extends reel and installation lengths
- Optional ezPREP® corrugated steel tape armor provides mechanical protection and rodent resistance

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500A DS016 EXPRESSLT DRY 02-16

Prysmian Group

PRYSMIAN Draka

ExpressLT™ Dry

Dry loose tube cable (2.5 mm)

Dielectric (Non-Armored) (EDH1JKT)

Fiber Count	# of Buffer Tubes	Diameter inches (mm)	Approximate Cable Weight lb/kft (kg/km)	Bend Radius | Load inches (cm)	Bend Radius | No Load inches (cm)
4 to 60	5	0.40 (10.1)	43 (64)	8 (20)	4 (10)
62 to 72	6	0.43 (10.9)	50 (75)	8 (22)	4 (11)
74 to 96	8	0.50 (12.6)	65 (97)	10 (25)	5 (13)
98 to 120	10	0.55 (14.1)	81 (121)	11 (28)	6 (14)
122 to 144	12	0.63 (15.9)	105 (156)	13 (32)	6 (16)
146 to 216	18	0.63 (15.9)	105 (156)	13 (32)	6 (16)
228 to 264	22	0.68 (17.3)	128 (190)	14 (35)	7 (17)
276 to 288	24	0.72 (18.3)	145 (216)	14 (37)	7 (18)
290 to 432	36	0.80 (20.4)	154 (229)	16 (41)	8 (21)

Single Jacket Armored (SP) (EDH1A1J)

Fiber Count	# of Buffer Tubes	Diameter inches (mm)	Approximate Cable Weight lb/kft (kg/km)	Bend Radius | Load inches (cm)	Bend Radius | No Load inches (cm)
4 to 60	5	0.46 (11.8)	89 (132)	9 (24)	5 (12)
62 to 72	6	0.50 (12.6)	97 (145)	10 (25)	5 (13)
74 to 96	8	0.56 (14.3)	125 (186)	11 (29)	6 (14)
98 to 120	10	0.62 (15.8)	148 (220)	12 (32)	6 (16)
122 to 144	12	0.69 (17.6)	176 (262)	14 (35)	7 (18)
146 to 216	18	0.70 (17.9)	176 (262)	14 (36)	7 (18)
228 to 264	22	0.76 (19.4)	196 (291)	15 (39)	8 (19)
276 to 288	24	0.81 (20.7)	214 (319)	16 (42)	8 (21)
290 to 432	36	0.90 (23.0)	230 (342)	18 (46)	9 (23)

Double Jacket Single Armored (PSP) (EDH1A2J)

Fiber Count	# of Buffer Tubes	Diameter inches (mm)	Approximate Cable Weight lb/kft (kg/km)	Bend Radius | Load inches (cm)	Bend Radius | No Load inches (cm)
4 to 60	5	0.53 (13.5)	107 (160)	11 (27)	5 (14)
62 to 72	6	0.55 (14.0)	122 (181)	11 (28)	5 (14)
74 to 96	8	0.61 (15.5)	137 (204)	12 (31)	6 (16)
98 to 120	10	0.67 (17.1)	167 (249)	13 (34)	7 (17)
122 to 144	12	0.74 (18.9)	198 (294)	15 (38)	7 (19)
146 to 216	18	0.76 (19.2)	198 (294)	15 (38)	8 (19)
228 to 264	22	0.80 (20.4)	220 (327)	16 (41)	8 (20)
276 to 288	24	0.86 (21.8)	239 (356)	17 (44)	9 (22)
290 to 432	36	0.94 (24.0)	257 (382)	19 (48)	9 (24)

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500A DS016 EXPRESSLT DRY 02-16

Prysmian Group

PRYSMIAN Draka

ExpressLT™ Dry

Dry loose tube cable (2.5 mm)

Dielectric Double Jacket (PDP) (EDHNA2J)

Fiber Count	# of Buffer Tubes	Diameter inches (mm)	Approximate Cable Weight lb/kft (kg/km)	Bend Radius | Load inches (cm)	Bend Radius | No Load inches (cm)
4 to 60	5	0.46 (11.7)	63 (96)	9 (23)	5 (12)
62 to 72	6	0.48 (12.2)	73 (108)	10 (25)	5 (12)
74 to 96	8	0.54 (13.8)	89 (133)	11 (28)	5 (14)
98 to 120	10	0.61 (15.4)	111 (165)	12 (31)	6 (15)
122 to 144	12	0.67 (17.1)	133 (198)	13 (34)	7 (17)
146 to 216	18	0.67 (17.1)	137 (204)	13 (34)	7 (17)
218 to 264	22	0.74 (18.7)	159 (237)	15 (37)	7 (19)
266 to 288	24	0.78 (19.8)	179 (266)	16 (40)	8 (20)

Double Jacket Double Armored (SPSP) (EDH2A2J)

Fiber Count	# of Buffer Tubes	Diameter inches (mm)	Approximate Cable Weight lb/kft (kg/km)	Bend Radius | Load inches (cm)	Bend Radius | No Load inches (cm)
4 to 60	5	0.64 (16.3)	182 (272)	13 (33)	6 (16)
62 to 72	6	0.67 (17.1)	194 (289)	13 (34)	7 (17)
74 to 96	8	0.75 (19.1)	226 (336)	15 (38)	8 (19)
98 to 120	10	0.80 (20.4)	258 (384)	16 (41)	8 (20)
122 to 144	12	0.88 (22.4)	312 (465)	18 (45)	9 (22)
146 to 216	18	0.88 (22.4)	305 (454)	18 (45)	9 (22)
218 to 264	22	0.94 (23.9)	338 (503)	19 (48)	9 (24)
266 to 288	24	0.98 (24.9)	368 (547)	20 (50)	10 (25)

Triple Jacket Double Armored (PSPSP) (EDH2A3J)

Fiber Count	# of Buffer Tubes	Diameter inches (mm)	Approximate Cable Weight lb/kft (kg/km)	Bend Radius | Load inches (cm)	Bend Radius | No Load inches (cm)
4 to 60	5	0.70 (17.8)	215 (320)	14 (36)	7 (18)
62 to 72	6	0.73 (18.6)	228 (339)	15 (37)	7 (19)
74 to 96	8	0.78 (19.9)	265 (394)	16 (40)	8 (20)
98 to 120	10	0.86 (21.9)	313 (466)	17 (43)	9 (22)
122 to 144	12	0.93 (23.7)	367 (546)	19 (47)	9 (24)
146 to 216	18	0.93 (23.7)	367 (546)	19 (47)	9 (24)
218 to 264	22	0.98 (25.0)	402 (598)	20 (50)	10 (25)
266 to 288	24	1.02 (26.0)	429 (639)	20 (52)	10 (26)

Installation

Maximum installation load: 600 lbf (2700 N)
Maximum operation load: 180 lbf (800 N)

Temperature Range

Shipping and Storage:	-40° F to +167° F	(-40° C to +75° C)
Installation:	-22° F to +140° F	(-30° C to +60° C)
Operation:	-40° F to +158° F	(-40° C to +70° C)

Prysmian Group
700 Industrial Drive | Lexington, SC 29072
+1-800-879-9862 | +1-800-669-0808 | website: na.prysmiangroup.com/telecom

500A DS016 EXPRESSLT DRY 02-16

Prysmian Group

PRYSMIAN Draka

Ordering Guide

The Prysmian Group part number incorporates several significant attributes involving cable design and optical performance.
The appropriate part number can be configured using the process described below

Example: ExpressLT™ dry (gel-free) | single armor single jacket (12 fibers/tube) with 72 single-mode fibers (printed in feet)

1 LENGTH MARKINGS	2 PRODUCT FAMILY	3 CONSTRUCTION	4 FIBER GROUPING	5 FIBER TYPE	6 FIBER COUNT	7 FIBER GRADE
F	EDH	1A1J	12	HB	072	E3

PART NUMBER CONSTRUCTION

1 LENGTH MARKINGS

F = Feet or M = Meters

2 PRODUCT FAMILY

EDH = ExpressLT Dry

3 CONSTRUCTION

1JKT = Single Jacket
1A1J = Single Armor, Single Jacket
1A2J = Single Armor, Dual Jacket
2A2J = Double Armor, Dual Jacket
2A3J = Double Armor, Triple Jacket
NA2J = Non Armored, Dual Jacket

4 FIBER GROUPING

12 = 12f per tube

FIBER INFORMATION

5 FIBER TYPE

SINGLE-MODE

HB = Single-Mode (ITU G.652 C & D) Low Water Peak
ES = Enhanced Single-Mode (ITU G.652 C & D)
CE = Corning™ SMF28e+ Single-Mode
B1 = Bend-Insensitive Single-Mode (ITU G.657.A1 & G.652.D)
B2 = Bend-Insensitive Single-Mode (ITU G.657.A2 & .B2, & G.652.D)
TU = TeraLight Ultra Single-Mode (ITU G.655 & G.656)
LA = NZDSF-LA Single-Mode (ITU G.655)
LE = LEAF NZDSF (ITU G.655)

MULTIMODE	Wavelength (nm)	Bandwidth (MHz)	1 GbE Dist (m)	10 GbE Dist (m)
G6 = OM1 (62.5µm)	850/1300	200/500	300/550	33/___
G5 = OM2+ BIF (50µm)	850/1300	700/500	800	150/___
G3 = OM3 BIF (50µm)	850/1300	1500/500	1000	300/___
G4 = OM4 BIF (50µm)	850/1300	3500/500	1100	550/___

6 FIBER COUNT

004 to 432 fibers

7 FIBER GRADE

SINGLE-MODE Attenuation (dB/km)	Wavelength (nm)	Fiber Type
E1 = 0.40/0.40/0.30	1310/1383/1550	HB, ES, or CE
E3 = 0.35/0.35/0.25	1310/1383/1550	HB, ES, CE, B1, or B2
NA = 0.40/0.25	1310/1550	TeraLight Ultra Single-Mode
N1 = 0.25	1550	NZDSF-LA Single-Mode

MULTIMODE Attenuation (dB/km)	Wavelength (nm)
M2 = 3.5/1.0	850/1300
M3 = 3.0/1.0	850/1300

Other cable constructions and fiber performance grades available on request.

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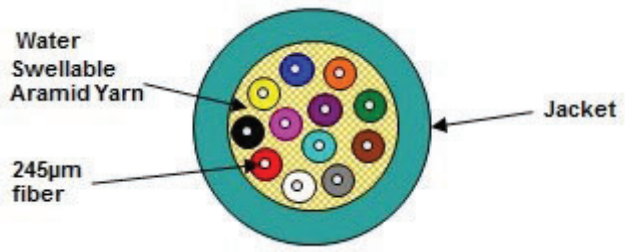
500A DS016 EXPRESSLT DRY 02-16

Part No: 33M-XXX-XXX-RXNOOP Issue Date: 08/24/2018 Revision #: 00

33M-Series Micro Distribution I/O Plenum Rated Fiber Optic Cable

Cable Cross Section



(Representation of a standard 12 fiber construction)

Scope

This document establishes the specification requirements for an indoor/outdoor micro distribution fiber optic cable. This cable construction consists of a 245µm fibers with aramid yarns and a plenum rated jacket.

Applications

Outdoors in Duct, Indoors in the Plenum Space, Tray Installations

Applicable Documents

-TIA/EIA FOTP Standards 455
-Color Coding of Fiber Optic Cables TIA/EIA-598
-UL 910
-GR-409-CORE
-Compliant with ANSI/TIA-568-C.3 standard

Cable Construction Details

•Fiber
Dimension: 245µm, Nominal
•Tight Buffer Color Code:
As per TIA/EIA-598 standard or per customer requirement
•Cable Strength:
Water swellable aramid yarns are pulled in with the fibers under the outer jacket
•Overall Sheath: UV Resistant Remguard Plenum Rated Polymer

Continued

Huge Selection and Personal Service

Remee WIRE & CABLE

Engineered With You In Mind

Nominal Cable Dimensions & Weights			
Remee Products Part Number	Number of Fibers	Cable OD in (mm)	Weight lb/1000ft (kg/km)
33M-002-XXX-RXNOOP	2	0.116(3.0)	8 (6)
33M-004-XXX-RXNOOP	4	0.116(3.0)	8 (6)
33M-006-XXX-RXNOOP	6	0.116(3.0)	8 (6)
33M-008-XXX-RXNOOP	8	0.116(3.0)	8 (6)
33M-012-XXX-RXNOOP	12	0.116(3.0)	8 (6)
**Cables printed in meters will have a "-MR" suffix on the part number.*			

Jacket Color	
Designation	Color
B	Black
Y	Yellow
Z	Orange
A	Aqua
M	Violet

Fiber Type (P/N)	Maximum Attenuation dB/km				Overfill Launch Min Bandwidth (MHz-km)		EMBc (MHz-km)	Gigabit Ethernet Minimum Link Distance (Meters)		10 Gigabit Ethernet Minimum Link Distance (Meters)	
	850 nm	1300 nm	1310 nm	1550 nm	850 nm	1300 nm		850 nm	1300 nm	850 nm	1300 nm
62.5µm OM1 1GIG (22J)	3.2	1.0	N/A	N/A	200	600	N/A	300	550	32	-
50µm OM2 10GIG (12D)	3.0	1.0	N/A	N/A	750	500	N/A	800	550	150	-
50µm OM3 10GIG (12N)	3.0	1.0	N/A	N/A	1500	500	2000	1000	550	300	-
50µm OM4 10GIG (12V)	3.0	1.0	N/A	N/A	3500	500	4700	1040	550	550	-
SM OS2 G.652.D (76K)	N/A	N/A	0.40	0.30	N/A	N/A	N/A	N/A	5000	N/A	10000
SM OS2 G.652.D (74K)	N/A	N/A	0.35	0.25	N/A	N/A	N/A	N/A	5000	N/A	10000
SM OS2 G.652.D/G.657.A1 BIF (76U)*	N/A	N/A	0.40	0.30	N/A	N/A	N/A	N/A	5000	N/A	10000
SM OS2 G.652.D/G.657.A2, B2 BIF (76F)**	N/A	N/A	0.40	0.30	N/A	N/A	N/A	N/A	5000	N/A	10000

** G.657.A1 (76U) Mandrel Radius of 10mm, 1 turn at 1550nm with an induced attenuation of ≤0.50dB*

*** G.657.A2,B2 (76F) Mandrel Radius of 7.5mm, 1 turn at 1550nm with an induced attenuation of ≤0.40dB*

Please call the factory for all other fiber types

Continued

Remee Wire & Cable
1751 State Rte 17A
Florida, New York 10921

Phone: 800.431.3864
Fax: 845.651.4160
Email: info@remee.com

www.remee.com

MADE IN USA

Huge Selection and Personal Service

Remee WIRE & CABLE

Engineered With You In Mind

Mechanical & Environmental Performance

- Maximum Tensile Load
  Installation : 95N / 21lbf
  Long Term : 25N / 5lbf

- Minimum Bending Radius
  Loaded : 20 x Diameter
  Unloaded : 10 x Diameter

- Impact Resistance (min.)
  25 Impacts

- Flexing ± 90° (min.)
  25 Cycles

- Temperature Rating
  Operation : -20°C to +85°C
  Installation : 0°C to +75°C
  Storage : -40°C to +85°C

Warranty Information

All warranty information can be viewed at www.remee.com. This product is RoHS compliant and is directive 2002/95/EC. It is the sole responsibility of the user to have the most current specification. Specifications are subject to change without notice.

Preparation for Shipment

The cable shall be packaged to preclude the inducement of damage due to handling and transportation, and shall be in accordance with the best
commercial practices available. Shipping containers shall be constructed as to eliminate any possible damage to the cables due to shipment.

Note: While Remee Products Corp. has made every reasonable effort to ensure the accuracy of the information in this document, Remee Products Corp. does not guarantee that it is error-free, nor does Remee Products Corp. make any other representation, warranty, or guarantee that the information is accurate, correct, reliable or current. Remee Products Corp. reserves the right to make any adjustments to the information contained herein at any time without notice. Remee Products Corp. expressly disclaims all implied warranties regarding the information contained herein, including but not limited to, any implied warranties of merchantability or fitness for particular purpose. The dimensions in this documents are for reference purposes only and are subject to change without notice.

Spec Approval (Custom Designs Only)

Your signature constitutes that you have read and agreed to this specification sheet and upon confirmation of your order: this item may be non-cancelable and non-returnable.

Signature:_____Date:_____

Remee Wire & Cable
1751 State Rte 17A
Florida, New York 10921

Phone: 800.431.3864
Fax: 845.651.4160
Email: info@remee.com

www.remee.com

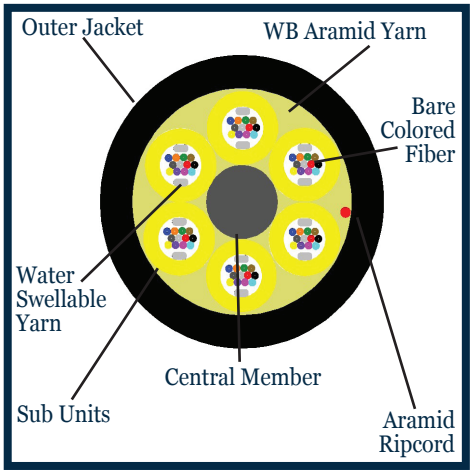
MADE IN USA

2-72 Fiber Dry Loose Tube Indoor-Outdoor Cable, Plenum

The Light Connection Inc.

Features and Benefits

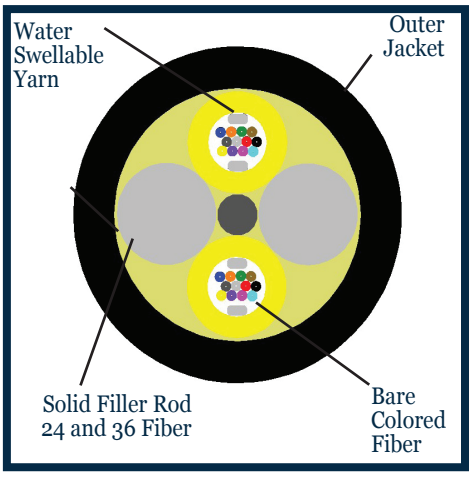
- Gel-Free waterblocked design
- UV protected rugged jacket
- 2 thru 72 fiber count
- Available in all fiber types



Description

The Light Connection multi-tube Dry Loose Tube Indoor-Outdoor Cable is composed of one to six sub-units, water blocking aramid yarn, central strength member, optional solid filler rods, and a PVC outer jacket. Each sub-unit consists of 2 to 12 colored optical fibers and water-swellable yarn with a PVC jacket 2.5mm in diameter. All component materials meet the EU RoHS and REACH Directive standards. Sub-units can be color-coded or sequentially numbered.

TLC Dry Loose Tube is available in 12 TIA standard colors or special-order colors. UL Listed OFNP cables are available, and unlisted, unrated cables can be supplied to accommodate special needs. Standard surface print denotes construction, NEC rating, and fiber type, and includes footage markers. Custom print can also be accommodated.



Application

Plenum
Duct
Indoor/Outdoor

Flame Rating

NFPA262

SPECIFICATIONS

Temperature Range	
Storage Temperature	-40 C to +70 C
Operating Temperature	-40 C to +70 C

Cable Characteristics	
Fiber Count	2-12, 24, 36, 48, 72
Outer Jacket Material	Flame Retardant PVC
Sub Units	Flame Retardant PVC
Strenth Member	Aramid Yarn
Central Strength Member	Fiber Reinforced Rod
Coating on Central Strength Member	Flame Retardant PVC

Physical Characteristics	Value
Nominal Outer Diameter (mm) of of 2-12, 24, 36, 48, 72 (fiber count)	4.8/ 8.5/ 8.5/ 8.5/ 10.4
Weight (lbs/ km) of 2-12, 24, 36, 48, 72 (fiber count)	78/ 150/ 150/ 182/ 252
Minimum Bend Radius, Installation (cm) of 2-12, 24, 36, 48, 72 (fiber count)	7.2/ 12.8/ 12.8/ 12.8/ 15.6
Minimum Bend Radius, Operation (cm) of 2-12, 24, 36, 48, 72 (fiber count)	4.8/ 8.5/ 8.5/ 8.5/ 10.4

Optical Characteristics

Items	Single Mode	OM1	OM2	OM3	OM4
Core Size	9 um	62.5 um	50 um	50 um	50 um
Wavelength	(1310/ 1550) nm	(850/ 1300) nm	(850/ 1300) nm	(850/ 1300) nm	(850/ 1300) nm
Max. Attenuation	(0.5/ 0.4) dB/ km	(3.5/ 1.5) dB/ km	(3.5/ 1.5) dB/ km	(3.5/ 1.5) dB/ km	(3.5/ 1.5) dB/ km
Bandwidth (EMB) (High Performance)	–	220 MHz @850nm	850 MHz @850nm	2000 MHz @850nm	4700 MHz @850nm
Link Length (10Gb/ s)	–	–	150 mtr	300 mtr	550 mtr

Part Numbers

Fiber Count	Single Mode	OM1	OM2	OM3	OM4
2-12	S09DL##**NPBL25	M62DL##**NPBL25	M50DL##**NPBL25	M50DL##**NPBL25	M50DL##**NPBL25
24	S09DL24**NPBL25	M62DL24**NPBL25	M50DL24**NPBL25	M50DL24**NPBL25	M50DL24**NPBL25
36	S09DL36**NPBL25	M62DL36**NPBL25	M50DL36**NPBL25	M50DL36**NPBL25	M50DL36**NPBL25
48	S09DL48**NPBL25	M62DL48**NPBL25	M50DL48**NPBL25	M50DL48**NPBL25	M50DL48**NPBL25
72	S09DL72**NPBL25	M62DL72**NPBL25	M50DL72**NPBL25	M50DL72**NPBL25	M50DL72**NPBL25

Fiber Type (9/125)	**
SMF-28 Ultra	CZ
ClearCurve LBL	C7
ClearCurve ZBL	CC

Fiber Type (50/125)	**
ClearCurve OM2	C2
Clear Curve OM3	CG
ClearCurve OM4	C4

Fiber Type (62.5/125)	**
InfiniCor 300	C3

Specifications are subject to change without notice.

132 Base Road
Oriskany, NY, 13424
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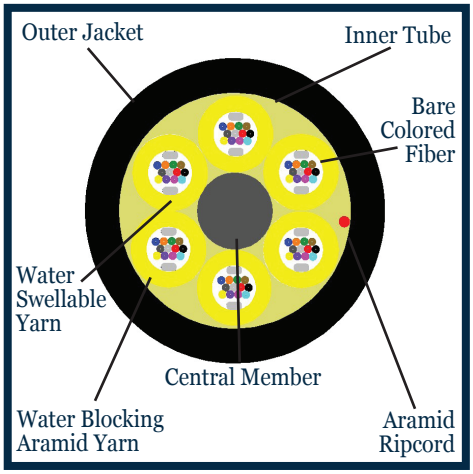
Toll free: 1-888-571-7111
sales@thelightconnection.com
www.thelightconnection.com

2-72 Fiber Dry Loose Tube Indoor-Outdoor Cable, Riser

The Light Connection Inc.

Features and Benefits

- Gel-Free waterblocked design
- UV protected rugged jacket
- 2 thru 72 fiber count
- Available in all fiber types



Description

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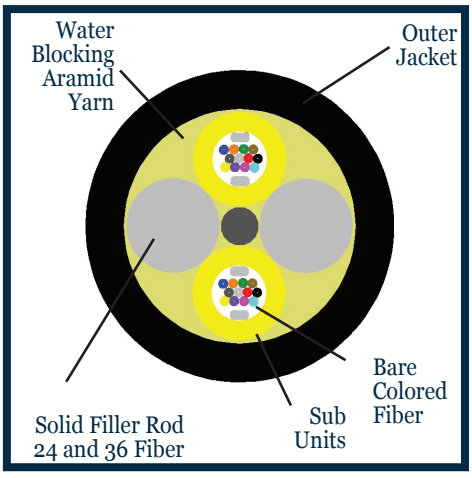
TLC Dry Loose Tube is available in 12 TIA standard colors or special-order colors. UL Listed OFNR cables are available, and unlisted, unrated cables can be supplied to accommodate special needs. Standard surface print denotes construction, NEC rating, and fiber type, and includes footage markers. Custom print can also be accommodated.



Application

Riser
Duct
Indoor/Outdoor

Flame Rating

UL1666

SPECIFICATIONS

Temperature Range	
Storage Temperature	-40 C to +70 C
Operating Temperature	-40 C to +70 C

Cable Characteristics	
Fiber Count	2-12, 24, 36, 48, 72
Outer Jacket Material	Flame Retardant PVC
Sub Units	Flame Retardant PVC
Strrenth Member	Aramid Yarn
Central Strength Member	Fiber Reinforced Rod
Coating on Central Strength Member	Flame Retardant PVC

Physical Characteristics	Value
Nominal Outer Diameter (mm) of of 2-12, 24, 36, 48, 72 (fiber count)	4.8/ 8.5/ 8.5/ 8.5/ 10.4
Weight (lbs/ km) of 2-12, 24, 36, 48, 72 (fiber count)	64/ 150/ 153/ 156/ 225
Minimum Bend Radius, Installation (cm) of 2-12, 24, 36, 48, 72 (fiber count)	7.2/ 12.8/ 12.8/ 12.8/ 15.6
Minimum Bend Radius, Operation (cm) of 2-12, 24, 36, 48, 72 (fiber count)	4.8/ 8.5/ 8.5/ 8.5/ 10.4

Optical Characteristics

Items	Single Mode	OM1	OM2	OM3	OM4
Core Size	9 um	62.5 um	50 um	50 um	50 um
Wavelength	(1310/ 1550) nm	(850/ 1300) nm	(850/ 1300) nm	(850/ 1300) nm	(850/ 1300) nm
Max. Attenuation	(0.5/ 0.4) dB/ km	(3.5/ 1.5) dB/ km	(3.5/ 1.5) dB/ km	(3.5/ 1.5) dB/ Km	(3.5/ 1.5) dB/ km
Bandwidth (EMB) (High Performance)	–	220 MHz @850nm	850 MHz @850nm	2000 MHz @850nm	4700 MHz @850nm
Link Length (10Gb/ s)	–	–	150 mtr	300 mtr	550 mtr

Part Numbers

Fiber Count	Single Mode	OM1	OM2	OM3	OM4
2-12	S09DL##**NRBL25	M62DL##**NRBL25	M50DL##**NRBL25	M50DL##**NRBL25	M50DL##**NRBL25
24	S09DL24**NRBL25	M62DL24**NRBL25	M50DL24**NRBL25	M50DL24**NRBL25	M50DL24**NRBL25
36	S09DL36**NRBL25	M62DL36**NRBL25	M50DL36**NRBL25	M50DL36**NRBL25	M50DL36**NRBL25
48	S09DL48**NRBL25	M62DL48**NRBL25	M50DL48**NRBL25	M50DL48**NRBL25	M50DL48**NRBL25
72	S09DL72**NRBL25	M62DL72**NRBL25	M50DL72**NRBL25	M50DL72**NRBL25	M50DL72**NRBL25

Fiber Type (9/125)	**
SMF-28 Ultra	CZ
ClearCurve LBL	C7
ClearCurve ZBL	CC

Fiber Type (50/125)	**
ClearCurve OM2	C2
Clear Curve OM3	CG
ClearCurve OM4	C4

Fiber Type (62.5/125)	**
InfiniCor 300	C3

Specifications are subject to change without notice.

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