



ENTERPRISE FIBER OPTIC CABLE

Interconnect | Indoor | Indoor/Outdoor
Outdoor | ADSS | MicroCore®

Founded in 1984, AFL is a global leader providing fiber optic products, equipment, and engineering services to the telecommunications, electric utility, wireless, energy, private network and OEM markets. AFL also serves a diverse mix of industry segments that include service providers, military and defense, mining, oil and gas, and biomedical.

AFL brings years of experience in developing solutions for customers, fostering a creative culture to drive and deploy innovative technologies that will improve communications for years to come. Our product line consists of fiber optic cable, optical connectivity, fusion splicers and test equipment as well as fiber management systems, closures and accessories.

AFL is dedicated to bringing our customers a quality product as well as delivering superior value.



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Specifying AFL Premise Optical Cables

Cable Type	Jacket Type	Fiber Count	Fiber Type*	Unit Jacket Diameter	Print	Jacket Color	Tight Buffer Color	Tight Buffer Type	Additional Information*
C	R	012	5	55	1	0	0	1	AIA
B = Breakout C = Circular Premise Cable D = Dual-link G = Sub-unitized Microcore K = Indoor/Outdoor S = Simplex U = Quad-link W = Ribbon X = Tactical Z = Zipcord	R = Riser P = Plenum E = LSZH U = Polyurethane F = Furcation B = Bare	004 = 4 fiber 006 = 6 fiber 012 = 12 fiber etc.	5 = 50 µm MM 6 = 62.5 µm MM 9 = Single-mode L = 10G 300 m K = Bend-Insensitive SM * more available	55 = 5.5 mm	1 = AFL standard 2 = Non-standard U = Unprinted	0 = Standard 1 = Blue 2 = Orange 3 = Green 4 = Brown 5 = Slate 6 = White 7 = Red 8 = Black 9 = Yellow A = Violet B = Rose C = Aqua	0 = Standard	1 = Standard Strip 3 = EZ strip 6 = 600 µm Tight Buffer 8 = Medium Strip B = Bare G = Elastomer over 250 µm H = Elastomer over 500 µm U = 500 µm Bare Fiber	AIA = Aluminum Interlocking Armor AIAR = Aluminum Interlocking Armor/Riser Jacket AIAP = Aluminum Interlocking Armor/Plenum Jacket * or other customer specific information

* Different configurations, fiber types, etc. may be available. Please consult your AFL representative for more details.

Cable Print Examples



AFL Standard Print

AFL OPTICAL CABLE 1-800-AFL-FIBER 50/125 12 FIBER (UL) TYPE OFNR c(UL) RoHS MM/YY 000000 METERS REEL NUMBER

Generic Print

OPTICAL FIBER CABLE 50/125 12 FIBER E121250 TYPE OFNR (UL) c(UL) RoHS-COMPLIANT MM/YY 000000 METERS REEL NUMBER

* Custom print is available.





Fiber-In-A-Box

AFL's "Fiber-In-A-Box" solution offers contractors lightweight, easy to use cable packaging with "out of the box" disbursement of fiber cable. No reel supports or pay-off's are required. Simply set the box down in a convenient place, unlock the built-in braking mechanism and begin pulling. Adjust the braking mechanism to apply the amount of pulling tension required. Stack and configure boxes together to disburse cable from several reels at the same time. Available in lengths of 1000, 2000 and 3000 feet, this unique cable package solution will save contractors valuable time and cost.

Features/Benefits

- Easy count printing – descending marks (feet or meters) indicating amount of cable remaining on reel
- Light weight and easy to transport with grips on both sides of the box for easy handling
- Eliminates the need for reel supports and cable spooling equipment
- Unique braking mechanism allows reel to be locked in place within carton during transport and provides control of tension during cable pulls
- Boxes can be stacked and configured to support easy pay-off of multiple cable runs
- Warning under feed-through slot reminds installers of proper pulling methods for optical cable
- Factory packaging ensures cable is not "over-stressed" in non-factory cable cutting operations where personnel may not be sensitive to proper handling of fiber optic cable
- Available in lengths of 1000, 2000 and 3000 feet, depending on cable diameter
- Easy access to reel from top allows installers to repackage excess cable removed from box
- Easy way to organize, store and manage short lengths of excess cable

Applications

- Horizontal cabling / Fiber-to-the-Desk
- Fiber Drops within MDUs
- Short-to-medium length cable runs between buildings

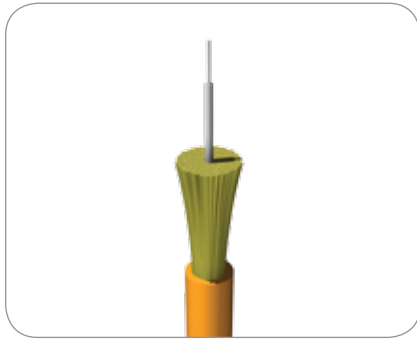
Ordering Information

Add suffix "-XMFBX" to part number to specify "Fiber-In-A-Box" solution where X indicates length of the cable in thousands of feet (1, 2, or 3).

AFL CABLES AVAILABLE FOR PURCHASE WITH "FIBER-IN-A-BOX" PACKAGING SOLUTION:

FIBER COUNT	CABLE TYPE	MF – THOUSANDS OF FEET
1	Simplex, 3 mm	1, 2, 3
2	Zipcord, 3 mm	1, 2
2	Dual-Link (Round), 4.8 mm	1
4	Quad-Link	1
6, 8, 12	Circular Premise Cable	1
2, 4, 6	Indoor/Outdoor Tight Buffered Cable (Plenum or Riser)	1
2	High Impact Indoor Cable	2
4, 6, 8, 12	High Impact Indoor Cable	1





Simplex Cable

Simplex fiber optic cables provide the strength and flexibility required for today's fiber interconnect applications. AFL offers the broadest selection of simplex cordage including Plenum, Riser and LSZH, available in all diameters. Our simplex cable is tested to meet Telcordia GR-326 when used in connectorized assemblies. AFL provides customized performance with regard to jacket stiffness and flexibility, diameter, print legend, jacket color and tight buffer strippability. The easy strip option allows removal of up to one meter of 900 µm material without stripping the fiber's 250 µm coating. Compliant with Directive 2002/95/EC (RoHS).

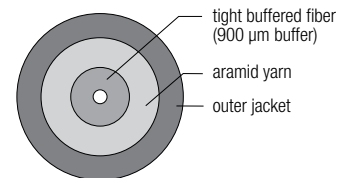
Features

- Tested to meet or exceed EIA/TIA 568-133 and Telcordia GR-409-CORE
- Compliant to Directive 2002/95/EC (RoHS)
- LSZH meets the requirements of IEC 61034-1, 61034-2, 60332-1-1, 60332-1-2, 60754-1, 60754-2

Applications

- Building Interconnections (Campus LAN)
- Trunking Lines Direct to Telecommunications Closet
- Fiber patch panels within communications closets
- Long Haul Networks
- Links between electronic equipment and fiber patch panels
- Connectorized patch cords for cross connect applications

Cable Components



Mechanical Data

AFL NO.		FIBER COUNT	NOMINAL DIAMETER	WEIGHT		TENSION		BENDING RADIUS		TEMPERATURE RANGE	
				RISER	PLENUM	LBS (N)		INCHES (CM)			
			INCHES (MM)	LBS/1000 FT (KG/KM)	LBS/1000 FT (KG/KM)	INSTALLATION	LONG TERM	INSTALLATION	LONG TERM	OPERATING/ INSTALLATION	STORAGE
PLENUM	SP001★301001	1	0.11 (2.9)	—	6 (9)	22 (100)	7 (30)	2.0 (5.0)	1.2 (3.0)	0°C to +70°C	-40°C to +75°C
	SP001★241001	1	0.09 (2.4)	—	5 (7)	22 (100)	7 (30)	2.0 (5.0)	1.2 (3.0)		
	SP001★201001	1	0.08 (2.0)	—	3 (5)	22 (100)	7 (30)	2.0 (5.0)	1.2 (3.0)		
	SP001★161001	1	0.06 (1.6)	—	2 (3)	22 (100)	7 (30)	2.0 (5.0)	1.2 (3.0)		
RISER	SA001★301001	1	0.11 (2.9)	5 (7)	—	22 (100)	7 (30)	2.0 (5.0)	1.2 (3.0)	-20°C to +70°C	-40°C to +75°C
	SR001★241001	1	0.09 (2.4)	3 (5)	—	22 (100)	7 (30)	2.0 (5.0)	1.2 (3.0)		
	SR001★201001	1	0.08 (2.0)	3 (4)	—	22 (100)	7 (30)	2.0 (5.0)	1.2 (3.0)		
	SR001★161001	1	0.06 (1.6)	2 (2)	—	22 (100)	7 (30)	2.0 (5.0)	1.2 (3.0)		
LSZH	SE001★30100E	1	0.11 (2.9)	5 (7)	—	22 (100)	7 (30)	2.0 (5.0)	1.2 (3.0)	0°C to +70°C	-40°C to +75°C
	SE001★24100E	1	0.09 (2.4)	3 (5)	—	22 (100)	7 (30)	2.0 (5.0)	1.2 (3.0)		
	SE001★20100E	1	0.08 (2.0)	3 (4)	—	22 (100)	7 (30)	2.0 (5.0)	1.2 (3.0)		

★ Please specify fiber type when ordering (see below)

1 = 100/140 µm multimode fiber
 5 = 50/125 µm multimode GIGA-Link™ 600
 7 = 50/125 µm multimode GIGA-Link™ 2000
 6 = 62.5/125 µm multimode GIGA-Link™ 300
 8 = 62.5/125 µm multimode GIGA-Link™ 1000
 9 = 9/125 µm single-mode
 L = 50/125 µm multimode Laser-Link 300 for 10 Gigabit Ethernet
 K = Single-mode Futureguide SR-15e Bend Insensitive

Contact Customer Service for special fiber types/performance needs.

Simplex Cable

Specifications

CORE SIZE/ FIBER TYPE	ISO/ IEC	MAXIMUM ATTENUATION (DB/KM)			OVERFILL LAUNCH MIN. BANDWIDTH (MHZ•KM)		EMB _c (MHZ•KM)	GIGABIT ETHERNET MIN. LINK DISTANCE (METERS)		10 GIGABIT ETHERNET MIN. LINK DISTANCE (METERS)	
		850 NM	1300 NM	1550 NM	850 NM	1300 NM		850 NM	1300 NM	850 NM	1300 NM
(6) 62.5 Giga-Link™ 300	OM1	3.5	1.2	N/A	200	600	N/A	300	550	32	—
(8) 62.5 Giga-Link™ 1000	OM1	3.5	1.2	N/A	350	600	N/A	500	1000	65	—
(5) 50 Giga-Link™ 600	OM2	3.5	1.5	N/A	500	500	N/A	600	600	82	—
(7) 50 Giga-Link™ 2000	OM2	3.5	1.2	N/A	500	800	N/A	750	2000	110	—
(A) 50 Laser-Link 150	OM2	3.0	1.2	N/A	700	500	950	800	550	150	—
(L) 50 Laser-Link 300	OM3	3.0	1.2	N/A	1500	500	2000	1000	550	300	—
(C) 50 Laser-Link 550	OM4	3.0	1.2	N/A	3500	550	4700	1040	550	550	—
(K) SM Futureguide SR-15e Bend Insensitive (ITU G.657.A)	OS2	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5000	N/A	10,000
(9) SM	OS2	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5,000	N/A	10,000
(1) 100/140 Multimode		5.5	3.5	N/A	100	100	N/A	N/A	N/A	N/A	N/A

Tested to meet or exceed EIA/TIA 568-B3 / Telcordia GR-409-CORE

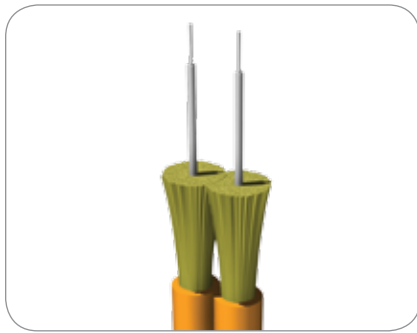
Maximum Cable Length - Reel Size

ITEM	FIBER BOX*	REEL Z	REEL A	REEL B
Reel/Box Height (inches)	15.13	14.0	16.0	24.0
Reel/Box Outside Width (inches)	13.0	12.0	15.0	17.0
Drum Diameter (inches)	8.0	8.0	8.0	12.0
Reel Weight (lbs)	6.0	7.0	10.0	23.0
CAPACITY: METERS (FEET)				
Simplex 1.6	—	5,000 (16,404)	5,000 (16,404)	—
Simplex 2.0	—	3,500 (11,483)	5,000 (16,404)	—
Simplex 2.4	—	—	4,000 (13,123)	5,000 (16,404)
Simplex 3.0	914 (3,000)	—	2,500 (8,202)	5,000 (16,404)

* Add suffix "—XMFBOX" to cable AFL number to specify "Fiber-In-A-Box" solution. "X" indicates length of cable in thousands of feet. Only available in standard lengths as indicated in chart above.

EXAMPLE: SP0019301001—3MFBOX

Would be the resulting AFL number for 3,000 feet of SP001*301001 cable with 9/125 µm single-mode fiber and the Fiber-In-A-Box solution. Refer to Fiber-In-A-Box data at front of catalog.



Zipcord, Dual-link and Micro-Dual Cable

Zipcord, DUAL-link and Micro-Dual cables provide links to the future for such protocols as FDDI, 10 Gigabit Ethernet, ATM, and Fibre Channel. Connections are easy to terminate with this flexible, two-fiber design. AFL offers the broadest selection of duplex cordage including Plenum, Riser and LSZH in all diameters. LSZH jacketed cables are OFNR listed. One design for global companies that don't want to maintain multiple cable types for varying global standards. Compliant with Directive 2002/95/EC (RoHS).

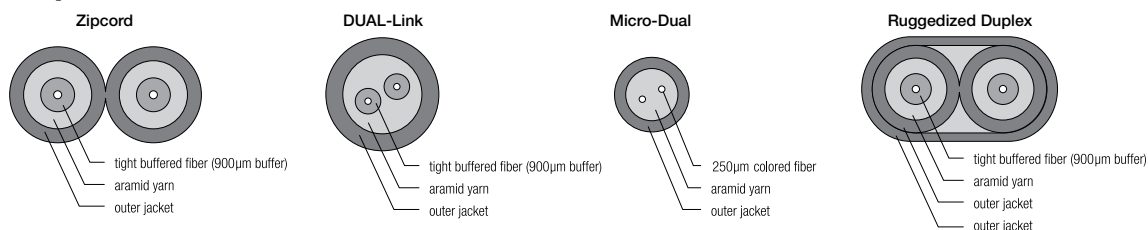
Features

- Print legend customization
- Jacket color (12 standard colors available)
- Tight Buffer strippability (easy strip option allows removal of up to 1 meter of 900 μ m material without stripping the fiber's 250 μ m coating)
- Ruggedized Duplex designs for transport from communications closet to wall outlet
- Tested to meet or exceed EIA/TIA 568-133 and Telcordia GR-409-CORE
- LSZH meets the requirements of IEC 61034-1, 61034-2, 60332-1-1, 60332-1-2, 60754-1, 60754-2
- Compliant to Directive 2002/95/EC (RoHS)

Applications

- Communications closet to wall outlet
- Wall outlet to desk
- Connectorized patchcords for interconnect and cross-connect applications
- Easy interface to ESCON®, FDDI, and various other duplex connectors

Cable Components



Mechanical Data

CABLE TYPE	AFL NO.		LSZH	FIBER COUNT	NOMINAL DIAMETER	WEIGHT		TENSION		BENDING RADIUS		TEMPERATURE RANGE	
	RISER	PLENUM			INCHES (mm)	RISER	PLENUM	LBS (N)		INCHES (CM)		OPERATING/ INSTALLATION	STORAGE
						LBS/ 1000 FT (kg/km)	LBS/ 1000 FT (kg/km)	INSTALLATION	LONG TERM	INSTALLATION	LONG TERM		
Zipcord	ZA002★301001	ZP002★301001	ZE002★30100E	2	0.11 x 0.22 (2.9 x 6.0)	10 (15)	12 (18)	22 (100)	7 (30)	2.0 (5.0)	1.2 (3.0)	PLENUM: 0°C to +70°C	-40°C to +75°C
	ZR002★241001	ZP002★241001	ZE002★24100E	2	0.09 x 0.19 (2.4 x 4.8)	7 (10)	9 (14)	22 (100)	7 (30)	2.0 (5.0)	1.2 (3.0)		
	ZR002★201001	ZP002★201001	ZE002★20100E	2	0.08 x 0.16 (2.0 x 4.0)	5 (8)	7 (10)	22 (100)	7 (30)	2.0 (5.0)	1.2 (3.0)		
	ZR002★161001	ZP002★161001	—	2	0.06 x 0.12 (1.6 x 3.2)	4 (6)	7 (6)	22 (100)	7 (30)	2.0 (5.0)	1.2 (3.0)		
Micro-Dual	DR002★20100B	DP002★20100B	DE002★20100B	2	0.08 (2.0)	3 (5)	5 (7)	22 (100)	7 (30)	1.2 (3.0)	0.78 (2.0)	RISER: -20°C to +70°C	
DUAL-Link	DA002★481001	DP002★481001	DE002★48100E	2	0.19 (4.8)	13 (20)	17 (20)	22 (100)	7 (30)	3.1 (7.2)	2.0 (7.2)		
	DR002★281001	DP002★281001	DE002★28100E	2	0.11 (2.8)	5 (7)	6 (9)	22 (100)	7 (30)	2.0 (5.0)	1.2 (3.0)		
	DR002★241001	DP002★241001	DE002★24100E	2	0.094 (2.4)	3 (5)	5 (7)	22 (100)	7 (30)	2.0 (5.0)	1.2 (3.0)		
Ruggedized Duplex	RR002★301001	RP002★241001	—	2	0.185 x 0.30 (4.7 x 7.6)	34 (50)	—	22 (100)	7 (30)	2.8 (7.1)	1.9 (4.7)		

★ Please specify fiber type when ordering (see below)

5 = 50/125 μ m multimode GIGA-Link™ 600
7 = 50/125 μ m multimode GIGA-Link™ 2000
6 = 62.5/125 μ m multimode GIGA-Link™ 300
8 = 62.5/125 μ m multimode GIGA-Link™ 1000
9 = 9/125 μ m single-mode
L = 50/125 μ m multimode Laser-Link 300 for 10 Gigabit Ethernet

K = Single-mode Futureguide SR-15e Bend Insensitive

Contact Customer Service for special fiber types/performance needs

Zipcord, Dual-link and Micro-Dual Cable

Specifications

CORE SIZE/ FIBER TYPE	ISO/ IEC	MAXIMUM ATTENUATION (DB/KM)			OVERFILL LAUNCH MIN. BANDWIDTH (MHZ•KM)		EMB _c (MHZ•KM)	GIGABIT ETHERNET MIN. LINK DISTANCE (METERS)		10 GIGABIT ETHERNET MIN. LINK DISTANCE (METERS)	
		850 NM	1300 NM	1550 NM	850 NM	1300 NM		850 NM	1300 NM	850 NM	1300 NM
(6) 62.5 Giga-Link™ 300	OM1	3.5	1.2	N/A	200	600	N/A	300	550	32	—
(8) 62.5 Giga-Link™ 1000	OM1	3.5	1.2	N/A	350	600	N/A	500	1000	65	—
(5) 50 Giga-Link™ 600	OM2	3.5	1.5	N/A	500	500	N/A	600	600	82	—
(7) 50 Giga-Link™ 2000	OM2	3.5	1.2	N/A	500	800	N/A	750	2000	110	—
(A) 50 Laser-Link 150	OM2	3.0	1.2	N/A	700	500	950	800	550	150	—
(L) 50 Laser-Link 300	OM3	3.0	1.2	N/A	1500	500	2000	1000	550	300	—
(C) 50 Laser-Link 550	OM4	3.0	1.2	N/A	3500	550	4700	1040	550	550	—
(K) SM Futureguide SR-15e Bend Insensitive (ITU G.657.A)	OS2	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5000	N/A	10,000
(9) SM	OS2	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5,000	N/A	10,000
(1) 100/140 Multimode		5.5	3.5	N/A	100	100	N/A	N/A	N/A	N/A	N/A

Tested to meet or exceed EIA/TIA 568-B3 / Telcordia GR-409-CORE

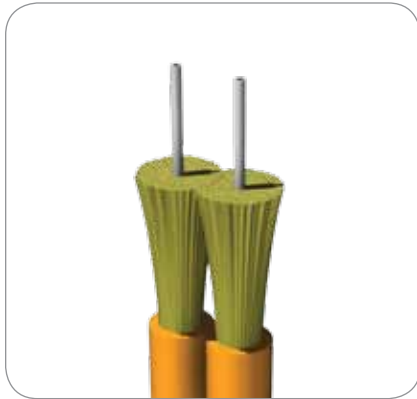
Maximum Cable Length - Reel Size

ITEM	FIBER BOX*	REEL A	REEL B	REEL C
Reel/Box Height (inches)	15.13	16	24	30
Reel/Box Outside Width (inches)	13.0	15	17	15.25
Drum Diameter (inches)	8.0	8	12	12
Reel Weight (lbs)	6.0	10	23	34
CAPACITY: Meters (Feet)				
Zipcord 1.6mm	—	4,500 (14,764)	—	—
Zipcord 2.0mm	—	2,850 (9,350)	5,000 (16,400)	—
Zipcord 2.4mm	—	2,000 (6,562)	5,000 (16,400)	—
Zipcord 3.0mm	914 (3,000)	1,250 (4,100)	4,000 (13,123)	5,000 (16,400)
DUAL-Link 2.4mm	—	4,000 (13,123)	5,000 (16,400)	—
DUAL-Link 2.8mm	—	2,500 (8,200)	5,000 (16,400)	—
DUAL-Link 4.8mm	305 (1,000)	900 (2,953)	3,200 (10,500)	4,500 (14,764)
Ruggedized Duplex	—	—	1,500 (4,921)	2,500 (8,200)

* Add suffix "—XMFBOX" to cable AFL number to specify "Fiber-In-A-Box" solution. "X" indicates length of cable in thousands of feet. Only available in standard lengths as indicated in chart above.

EXAMPLE: ZA0029301001—3MFB0X

Would be the resulting AFL number for 3,000 feet of ZA002*301001 cable with 9/125 µm single-mode fiber and the Fiber-In-A-Box solution. Refer to Fiber-In-A-Box data at front of catalog.



250µm Fan-out (Furcation) Tubing

AFL Furcation tubing offerings reflect the high performance and quality standards present throughout AFL's complete cordage line. The Fluoropolymer inner tube allows for smooth and easy fiber insertion while maintaining the integrity required for robust connectorization.

Features

- Lead Free, UL94V0 materials
- Standard diameters
- Custom Print Legend
- 380/900 µm inner tube provides optimal performance for crush/kink resistance
- Smooth fiber insertion
- Low Shrinkage for superior resistance to aging and high temperatures
- Ferrule adherence tested using industry standard adhesives
- Compliant to Directive 2002/95/EC (RoHS)
- LSZH meets the requirements of IEC 61034-1, 61034-2, 60332-1-1, 60332-1-2, 60754-1, 60754-2

Temperature Performance

PARAMETER	VALUE
Installation Temperature	-20°C to +70°C
Operation Temperature	-20°C to +70°C
Storage Temperature	-40°C to +70°C

Tubing Diameters Available

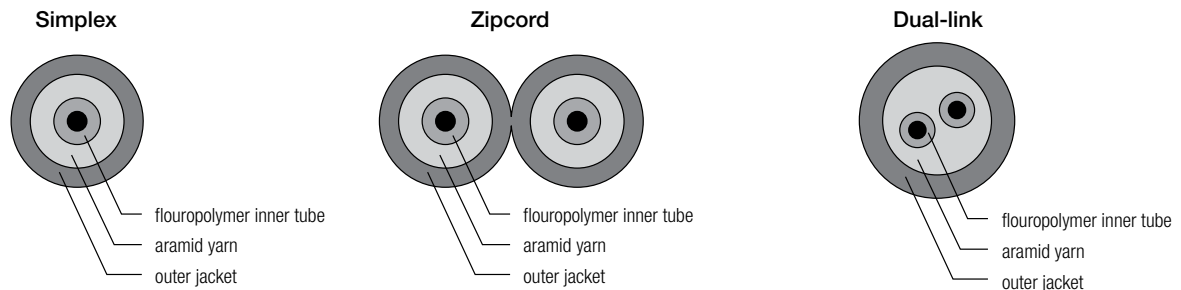
ID	OD	MATERIAL
350 µm	900 µm	PVDF
500 µm	900 µm	PVDF
500 µm	900 µm	Hytrel
1.2 mm	1.6 mm	PVC

NOTES: 350 µm x 900 µm diameter is standard
1.2 mm x 1.6 mm only available in 3.0 mm jacket

Applications

- Ribbon and Trunk cable fan-out to single fiber connections

Tubing Components



Mechanical Data

AFL NO.		TUBE COUNT	NOMINAL DIAMETER INCHES (MM)	WEIGHT LBS/1,000 FT (KG/KM)	TENSION – LBS (N)		BENDING RADIUS – INCHES (CM)	
PVC	LSZH				INSTALLATION	LONG TERM	INSTALLATION	LONG TERM
SIMPLEX								
SF000★301000	SE000★301000H	1	0.11 (2.9)	5 (7)	200 (100)	7 (30)	2.0 (5.0)	1.25 (3.17)
SF000★241000	SE000★241000H	1	0.09 (2.4)	3 (5)	200 (100)	7 (30)	2.0 (5.0)	1.25 (3.17)
SF000★201000	SE000★201000H	1	0.08 (2.0)	3 (4)	200 (100)	7 (30)	2.0 (5.0)	1.25 (3.17)
SF000★161000	—	1	0.06 (1.6)	2 (2)	200 (100)	7 (30)	2.0 (5.0)	1.25 (3.17)
ZIPCORD								
ZF000★301000	ZE000★301000H	2	0.11 x 0.22 (2.9 x 6.0)	10 (15)	200 (100)	7 (30)	2.0 (5.0)	1.25 (3.17)
ZF000★241000	ZE000★241000H	2	0.09 x 0.19 (2.4 x 4.8)	7 (10)	200 (100)	7 (30)	2.0 (5.0)	1.25 (3.17)
ZF000★201000	ZE000★201000H	2	0.08 x 0.16 (2.0 x 2.4)	5 (8)	200 (100)	7 (30)	2.0 (5.0)	1.25 (3.17)
ZF000★161000	—	2	0.06 x 0.12 (1.6 x 3.2)	4 (6)	200 (100)	7 (30)	2.0 (5.0)	1.25 (3.17)
Dual-Link								
DF000★481000	DE000★481000H	2	0.19 (4.8)	13 (20)	200 (100)	7 (30)	2.0 (5.0)	1.25 (3.17)
DF000★281000	DE000★281000H	2	0.11 (2.8)	5 (7)	200 (100)	7 (30)	2.0 (5.0)	1.25 (3.17)
DF000★241000	DE000★241000H	2	0.094 (2.4)	3 (5)	200 (100)	7 (30)	2.0 (5.0)	1.25 (3.17)

★ - 900 µm / 350 µm Fluoropolymer inner tube (OD – 900 µm, ID – 380 µm)



RIBBON-Link® Cable

RIBBON-Link cables combine high fiber density in a small diameter, flexible package. These cables can be terminated with 12 or 24 fiber multi-fiber connectors or the fibers can be fanned out and terminated individually. Plenum, Riser and LSZH options are all UL listed.

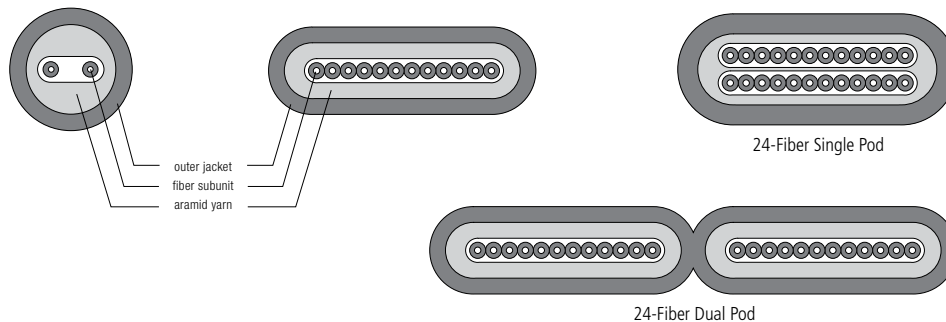
Features

- Fiber counts up to 48 with unitized, zip configuration construction
- Maximum of two 12-fiber ribbons per unit
- Skew matched ribbons available (<10, <6, <5, <4, <3, <2, <1.2 ps/meter)
- Easy interface to MT and MTP based connectors as well as today's newest ribbon connectors (12- or 24-fiber ferrules)
- Ruggedized versions with additional jacketing are available
- Tested to meet or exceed EIA/TIA 568-A / GR-409-CORE
- Compliant to Directive 2002/95/EC (RoHS)

Applications

- Direct interface to computers with the use of "backplane" style fiber connectors
- High density interconnection to wall outlets or patch panels with ribbon connector interfaces
- "Micro-diameter" fanout cables utilizing standard industry fiber connectors (ST, SC, FC, LC, MT-RJ.)
- VSR OC-192/OC-768 Interface based on parallel fiber optics

Cable Components



Specifications

CORE SIZE/ FIBER TYPE	ISO/ IEC	MAXIMUM ATTENUATION (DB/KM)			OVERFILL LAUNCH MIN. BANDWIDTH (MHZ•KM)		EMB _c (MHZ•KM)	GIGABIT ETHERNET MIN. LINK DISTANCE (METERS)		10 GIGABIT ETHERNET MIN. LINK DISTANCE (METERS)	
		850 NM	1300 NM	1550 NM	850 NM	1300 NM		850 NM	1300 NM	850 NM	1300 NM
(6) 62.5 Giga-Link™ 300	OM1	3.5	1.2	N/A	200	600	N/A	300	550	32	—
(8) 62.5 Giga-Link™ 1000	OM1	3.5	1.2	N/A	350	600	N/A	500	1000	65	—
(5) 50 Giga-Link™ 600	OM2	3.5	1.5	N/A	500	500	N/A	600	600	82	—
(7) 50 Giga-Link™ 2000	OM2	3.5	1.2	N/A	500	800	N/A	750	2000	110	—
(A) 50 Laser-Link 150	OM2	3.0	1.2	N/A	700	500	950	800	550	150	—
(L) 50 Laser-Link 300	OM3	3.0	1.2	N/A	1500	500	2000	1000	550	300	—
(C) 50 Laser-Link 550	OM4	3.0	1.2	N/A	3500	550	4700	1040	550	550	—
(K) SM Futureguide SR-15e Bend Insensitive	OS2	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5000	N/A	10,000
(9) SM	OS2	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5,000	N/A	10,000
(1) 100/140 Multimode		5.5	3.5	N/A	100	100	N/A	N/A	N/A	N/A	N/A

Tested to meet or exceed EIA/TIA 568-B3 / Telcordia GR-409-CORE

RIBBON-Link® Cable

Mechanical Data

CABLE TYPE	AFL NO.				FIBER COUNT	NOMINAL DIAMETER	WEIGHT	TENSION		BENDING RADIUS		TEMPERATURE RANGE			
	PLENUM (PVDF)	PLENUM (PVC)	RISER	LSZH		INCHES (MM)		LBS/ 1000 FT (KG/KM)	INSTALLATION	LONG TERM	INSTALLATION			LONG TERM	
RIBBON- LINK (single pod)	WP004★141012	WK004★141012	WR004★141012	WE004★141012	4	0.08 x 0.16 (2.1 x 4.0)	7.5 (11)	22 (100)	7 (30)	2.4 (6.0)	1.6 (4.0)	RISER: -20°C to +70°C PLENUM: 0°C to +70°C	-40°C to +75°C		
	WP006★161012	WK006★161012	WR006★161012	WE006★161012	6	0.08 x 0.16 (2.1 x 4.0)	7.5 (11)	22 (100)	7 (30)	2.4 (6.0)	1.6 (4.0)				
	WP008★181012	WK008★181012	WR008★181012	WE008★181012	8	0.08 x 0.16 (2.1 x 4.0)	7.5 (11)	22 (100)	7 (30)	2.4 (6.0)	1.6 (4.0)				
	WP012★1C1012	WK012★1C1012	WR012★1C1012	WE012★1C1012	12	0.08 x 0.18 (2.1 x 4.6)	8 (12)	22 (100)	7 (30)	2.7 (6.9)	1.8 (4.6)				
	WP024★1D1012	WK024★1D1012	WR024★1D1012	WE024★1D1012	24	0.10 x 0.18 (2.5 x 4.6)	8.7 (13)	22 (100)	7 (30)	2.7 (6.9)	1.8 (4.6)				
RIBBON- LINK (dual- pod)	WP008★241012	—	WR008★241012	WE008★241012	8	0.08 x 0.32 (2.1 x 8.2)	15 (22)	22 (100)	7 (30)	2.4 (6.0)	1.6 (4.0)				
	WP012★261012	—	WR012★261012	WE012★261012	12	0.08 x 0.32 (2.1 x 8.2)	15 (22)	22 (100)	7 (30)	2.4 (6.0)	1.6 (4.0)				
	WP016★281012	—	WR016★281012	WE016★281012	16	0.08 x 0.32 (2.1 x 8.2)	15 (22)	22 (100)	7 (30)	2.4 (6.0)	1.6 (4.0)				
	WP024★2C1012	—	WR024★2C1012	WE024★2C1012	24	0.08 x 0.36 (2.1 x 9.2)	15 (24)	22 (100)	7 (30)	2.7 (6.9)	1.8 (4.6)				
ROUND RIBBON (simplex)	WP002★301012	—	WR002★301012	WE002★301012	2	0.11 (2.9)	5 (7)	22 (100)	7 (30)	2.0 (5.0)	1.2 (3.0)				
	WP004★301012	—	WR004★301012	WE004★301012	4	0.11 (2.9)	5 (7)	22 (100)	7 (30)	2.0 (5.0)	1.2 (3.0)				

★ Please specify fiber type when ordering (see below)

5 = 50/125 µm multimode GIGA-Link™ 600

7 = 50/125 µm multimode GIGA-Link™ 2000

6 = 62.5/125 µm multimode GIGA-Link™ 300

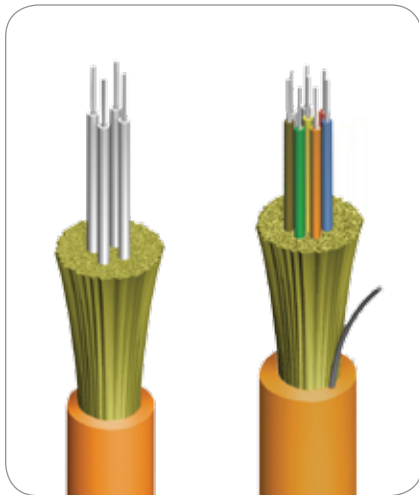
8 = 62.5/125 µm multimode GIGA-Link™ 1000

9 = 9/125 µm single-mode

L = 50/125 µm multimode Laser-Link 300 for 10 Gigabit Ethernet

K = Single-mode Futureguide SR-15e Bend Insensitive

Contact Customer Service for optical performance specifications and for additional mechanical specifications.



QUAD-link and Circular Premise Cable

QUAD-Link and single unit Circular Premise Cable designs allow for excellent packaging density, flexibility, and ease of routing. Buffered to 900 μm , these cables can be directly terminated into connectors in loaded panels or in communications closets.

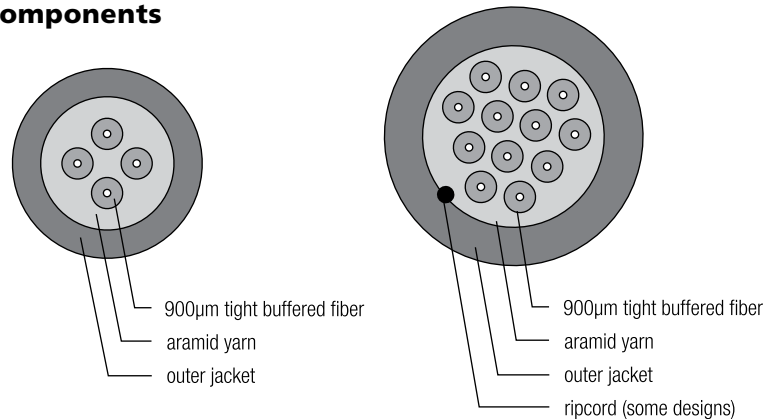
Applications

- Connectorized communications cables with both send-and-receive and send-and-receive backup in a single unit
- Routing between communications closets and equipment rooms
- Intrabuilding backbones

Features

- Tested to meet or exceed EIA/TIA 568-A / GR-409-CORE
- Compliant to Directive 2002/95/EC (RoHS)
- Mixed fiber designs available

Cable Components



Mechanical Data

CABLE TYPE	AFL NO.		FIBER COUNT	NOMINAL DIAMETER	WEIGHT		TENSION		BENDING RADIUS		TEMPERATURE RANGE	
	RISER	PLENUM			INCHES (MM)	LBS/ 1000 FT (KG/KM)	LBS/ 1000 FT (KG/KM)	LBS (N)		INCHES (CM)		
				INSTALLATION				LONG TERM	INSTALLATION	LONG TERM	OPERATING/ INSTALLATION	STORAGE
QUAD-Link	UA004★481001	UP004★481001	4	0.19 (4.8)	17 (25)	20 (30)	100 (440)	30 (132)	3.0 (7.2)	2.0 (5.0)	RISER: -20°C to +70°C PLENUM: 0°C to +70°C	-40°C to +75°C
CPC	CR006★441001	CP006★441001	6	0.17 (4.4)	12 (17)	13 (20)	100 (440)	30 (132)	3.0 (7.2)	2.0 (5.0)		
	CR008★481001	CP008★481001	8	0.19 (4.8)	13 (19)	17 (25)	100 (440)	30 (132)	3.0 (7.2)	2.0 (5.0)		
	CR012★551001	CP012★551001	12	0.22 (5.5)	17 (25)	20 (30)	100 (440)	30 (132)	3.5 (8.3)	2.5 (5.5)		
	CR018★801001	CP018★761001	18	0.32 (8.0)	34 (50)	38 (56)	100 (440)	30 (132)	5.0 (12.0)	3.2 (8.0)		
	CR024★891001	CP024★841001	24	0.34 (8.5)	41 (61)	46 (69)	150 (660)	45 (198)	5.5 (12.9)	3.5 (8.6)		

★ Please specify fiber type when ordering (see below)

5 = 50/125 μm multimode GIGA-Link™ 600

7 = 50/125 μm multimode GIGA-Link™ 2000

6 = 62.5/125 μm multimode GIGA-Link™ 300

8 = 62.5/125 μm multimode GIGA-Link™ 1000

9 = 9/125 μm single-mode

L = 50/125 μm multimode Laser-Link 300 for 10 Gigabit Ethernet

K = Single-mode Futureguide SR-15e Bend Insensitive

Contact Customer Service for special fiber types/performance needs.

QUAD-link and Circular Premise Cable

Specifications

CORE SIZE/ FIBER TYPE	ISO/ IEC	MAXIMUM ATTENUATION (DB/KM)			OVERFILL LAUNCH MIN. BANDWIDTH (MHZ•KM)		EMB _c (MHZ•KM)	GIGABIT ETHERNET MIN. LINK DISTANCE (METERS)		10 GIGABIT ETHERNET MIN. LINK DISTANCE (METERS)	
		850 NM	1300 NM	1550 NM	850 NM	1300 NM		850 NM	1300 NM	850 NM	1300 NM
(6) 62.5 Giga-Link™ 300	OM1	3.5	1.2	N/A	200	600	N/A	300	550	32	—
(8) 62.5 Giga-Link™ 1000	OM1	3.5	1.2	N/A	350	600	N/A	500	1000	65	—
(5) 50 Giga-Link™ 600	OM2	3.5	1.5	N/A	500	500	N/A	600	600	82	—
(7) 50 Giga-Link™ 2000	OM2	3.5	1.2	N/A	500	800	N/A	750	2000	110	—
(A) 50 Laser-Link 150	OM2	3.0	1.2	N/A	700	500	950	800	550	150	—
(L) 50 Laser-Link 300	OM3	3.0	1.2	N/A	1500	500	2000	1000	550	300	—
(C) 50 Laser-Link 550	OM4	3.0	1.2	N/A	3500	550	4700	1040	550	550	—
(K) SM Futureguide SR-15e Bend Insensitive (ITU G. 657.A)	OS2	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5000	N/A	10,000
(9) SM	OS2	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5,000	N/A	10,000
(1) 100/140 Multimode		5.5	3.5	N/A	100	100	N/A	N/A	N/A	N/A	N/A

Tested to meet or exceed EIA/TIA 568-B3 / Telcordia GR-409-CORE

Maximum Cable Length - Reel Size

ITEM	FIBER BOX*	REEL A	REEL B	REEL C	REEL D
Reel/Box Height (inches)	15.13	16	24	30	34
Reel/Box Outside Width (inches)	13.0	15	17	15.25	21.25
Drum Diameter (inches)	8.0	8	12	12	12
Reel Weight (lbs)	6.0	10	23	34	44
CAPACITY: METERS (FEET)					
4 Fiber Quad-Link	305 (1,000)	1,000 (3,281)	3,200 (10,500)	5,000 (16,404)	—
6 Fiber CPC	305 (1,000)	1,200 (3,937)	3,800 (12,467)	5,000 (16,404)	—
8 Fiber CPC	305 (1,000)	1,000 (3,281)	3,200 (10,500)	5,000 (16,404)	—
12 Fiber CPC	305 (1,000)	800 (2,625)	2,400 (7,874)	4,000 (13,123)	5,000 (16,404)
18 Fiber CPC (single unit)	—	—	1,300 (4,265)	2,100 (6,890)	3,350 (11,000)
24 Fiber CPC (single unit)	—	—	1,000 (3,281)	1,700 (5,777)	3,150 (10,335)

* Add suffix "—XMFBOX" to cable AFL number to specify "Fiber-In-A-Box" solution. "X" indicates length of cable in thousands of feet. Only available in standard lengths as indicated in chart above.

EXAMPLE: UA0049481001—3MFBOX

Would be the resulting AFL number for 3,000 feet of UA004*481001 cable with 9/125 µm single-mode fiber and the Fiber-In-A-Box solution. Refer to Fiber-In-A-Box data at front of catalog.



Multi-Unit Circular Premise Cable

Multi-Unit Circular Premise Cables are for use in applications requiring fiber counts between 18 and 144 fibers. Unitized construction allows for ease of fiber identification and rapid installation.

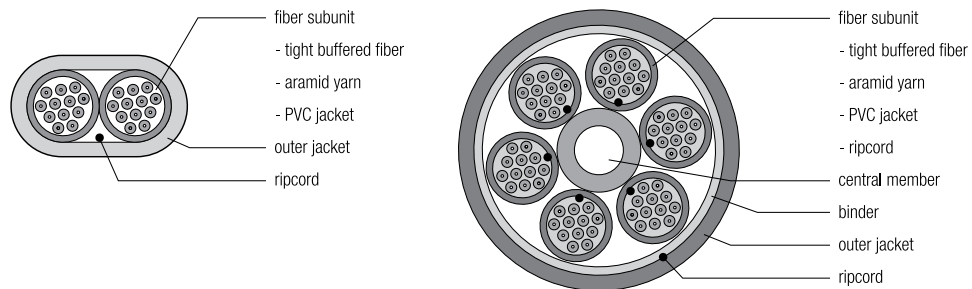
Applications

- Head-end termination to a fiber "backbone"
- Termination of fiber rack systems
- Multi-floor deployment where select fibers are used at each floor
- Intrabuilding "backbones"

Features

- Tested to meet or exceed EIA/TIA 568-A / GR-409-CORE
- Compliant to Directive 2002/95/EC (RoHS)
- Hybrid constructions are available

Cable Components



Mechanical Data

CABLE TYPE	AFL NO.		FIBER COUNT	NOMINAL DIAMETER	WEIGHT		TENSION		BENDING RADIUS	
	RISER	PLENUM			RISER	PLENUM	LBS (N)		INCHES (CM)	
				INCHES (MM)	LBS/1000FT (KG/KM)	LBS/1000FT (KG/KM)	INSTALLATION	LONG TERM	INSTALLATION	LONG TERM
CPC with 6 Fiber Subunits	CR018★441001	CP018★441001	18	0.55 (13.3)	121 (180)	134 (200)	300 (1320)	150 (660)	8.3 (20.0)	5.5 (13.3)
	CR024★441001	CP024★441001	24	0.55 (13.3)	121 (180)	134 (200)	300 (1320)	150 (660)	8.3 (20.0)	5.5 (13.3)
	CR036★441001	CP036★441001	36	0.62 (15.6)	147 (220)	171 (255)	300 (1320)	150 (660)	9.2 (23.4)	6.2 (15.6)
CPC with 12 Fiber Subunits	CR024★551001	CP024★551001	24	0.30 x 0.52 (7.6 x 13.2)	57 (86)	62 (92)	300 (1320)	150 (660)	5.0 (12.0)	4.0 (10.0)
	CR036★551001	CP036★551001	36	0.61 (15.4)	120 (180)	134 (200)	300 (1320)	150 (660)	9.1 (23.1)	6.1(15.4)
	CR048★551001	CP048★551001	48	0.61 (15.4)	120 (180)	134 (200)	300 (1320)	150 (660)	9.1 (23.1)	6.1 (15.4)
	CR060★551001	CP060★551001	60	0.76 (19.3)	184 (275)	211 (315)	300 (1320)	150 (660)	10.4 (26.4)	6.9 (17.6)
	CR072★551001	CP072★551001	72	0.76 (19.3)	184 (275)	211 (315)	300 (1320)	150 (660)	11.4 (29.0)	7.6 (19.3)
	CR096★551001	CP096★551001	96	0.90 (22.8)	281 (420)	295 (440)	300 (1320)	150 (660)	13.5 (34.2)	9.0 (22.8)
	CR144★551001	CP144★551001	144	1.0 (25.4)	288 (430)	302 (450)	300 (1320)	150 (660)	15.0 (38.1)	10.0 (25.4)

★ Please specify fiber type when ordering (see below)

5 = 50/125 µm multimode GIGA-Link™ 600

7 = 50/125 µm multimode GIGA-Link™ 2000

6 = 62.5/125 µm multimode GIGA-Link™ 300

8 = 62.5/125 µm multimode GIGA-Link™ 1000

9 = 9/125 µm single-mode

L = 50/125 µm multimode Laser-Link 300 for 10 Gigabit Ethernet

K = Single-mode Futureguide SR-15e Bend Insensitive

Contact Customer Service for special fiber types/performance

Temperature Specifications

TEMPERATURE RANGE		
CABLE TYPE	OPERATING/ INSTALLATION	STORAGE
PLENUM	0°C to +70°C	-40°C to +75°C
RISER	-20°C to +70°C	

Multi-Unit Circular Premise Cable

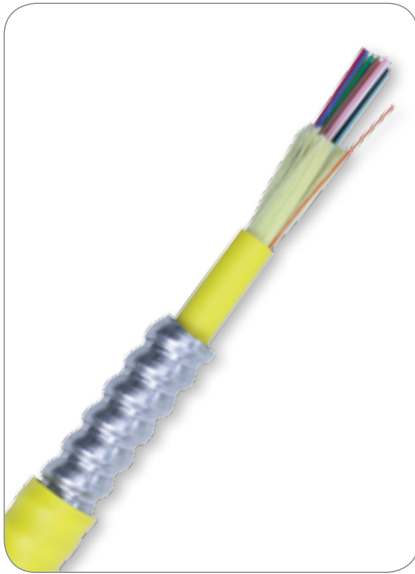
Specifications

CORE SIZE/ FIBER TYPE	ISO/ IEC	MAXIMUM ATTENUATION (DB/KM)			OVERFILL LAUNCH MIN. BANDWIDTH (MHZ•KM)		EMB _c (MHZ•KM)	GIGABIT ETHERNET MIN. LINK DISTANCE (METERS)		10 GIGABIT ETHERNET MIN. LINK DISTANCE (METERS)	
		850 NM	1300 NM	1550 NM	850 NM	1300 NM		850 NM	1300 NM	850 NM	1300 NM
(6) 62.5 Giga-Link™ 300	OM1	3.5	1.2	N/A	200	600	N/A	300	550	32	—
(8) 62.5 Giga-Link™ 1000	OM1	3.5	1.2	N/A	350	600	N/A	500	1000	65	—
(5) 50 Giga-Link™ 600	OM2	3.5	1.5	N/A	500	500	N/A	600	600	82	—
(7) 50 Giga-Link™ 2000	OM2	3.5	1.2	N/A	500	800	N/A	750	2000	110	—
(A) 50 Laser-Link 150	OM2	3.0	1.2	N/A	700	500	950	800	550	150	—
(L) 50 Laser-Link 300	OM3	3.0	1.2	N/A	1500	500	2000	1000	550	300	—
(C) 50 Laser-Link 550	OM4	3.0	1.2	N/A	3500	550	4700	1040	550	550	—
(K) SM Futureguide SR-15e Bend Insensitive (ITU G.657.A)	OS2	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5000	N/A	10,000
(9) SM	OS2	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5,000	N/A	10,000
(1) 100/140 Multimode		5.5	3.5	N/A	100	100	N/A	N/A	N/A	N/A	N/A

Tested to meet or exceed EIA/TIA 568-B3 / Telcordia GR-409-CORE

Cable Length - Reel Size

ITEM	REEL F	REEL G
Reel Height (inches)	42	60
Reel Outside Width (inches)	36	36
Drum Diameter (inches)	23	30
Reel Weight (lbs)	148	287
CAPACITY: METERS (FEET)		
18 Fiber CPC	2,300 (7,546)	2,500 / (8,200)
24 Fiber CPC	2,300 (7,546)	2,500 / (8,200)
36 Fiber CPC (6F subunits)	1,600 (5,250)	2,500 / (8,200)
36 Fiber CPC (12F subunits)	1,500 (4,921)	—
48 Fiber CPC	1,500 (4,921)	—
60 Fiber CPC	1,250 (4,100)	1,500 / (4,921)
72 Fiber CPC	1,000 (3,280)	1,500 / (4,921)
96 Fiber CPC	—	1,500 / (4,921)
144 Fiber CPC	—	1,300 / (4,265)



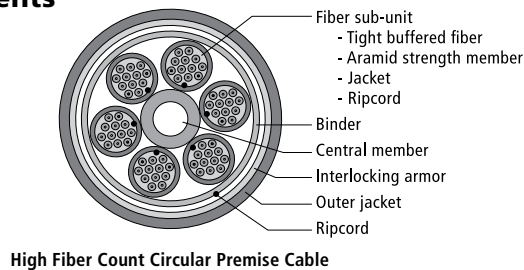
Armored Tight Buffered Circular Premise Cable

Armored Tight Buffered CPC Cables incorporate 4 to 144 fiber count CPC cables in a jacketed, aluminum interlocking armor. Jacketed aluminum interlocking armor provides the best balance of ruggedness, flexibility, and low weight. Flame rated armored cables with no outer jacket and flame rated armored cables with steel interlocking armor are also available. Interlocking armor can also be used with other types of trunk cables, including Indoor/Outdoor Distribution, Breakout and Premise MicroCore®.

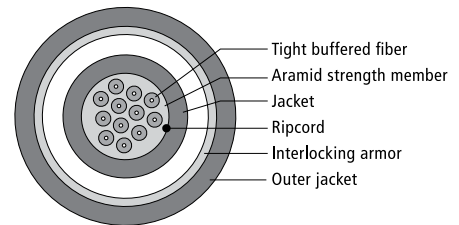
Applications

- Routing inside of buildings where additional ruggedness is required or where increased rodent resistance is required
- Extra protection for fiber optic cables in harsh industrial environments
- Manufacturing plants
- High-density routings in data center application

Cable Components



High Fiber Count Circular Premise Cable



Circular Premise Cable

Specifications

CORE SIZE/ FIBER TYPE	ISO/ IEC	MAXIMUM ATTENUATION (DB/KM)			OVERFILL LAUNCH MIN. BANDWIDTH (MHZ•KM)		EMB _c (MHZ•KM)	GIGABIT ETHERNET MIN. LINK DISTANCE (METERS)		10 GIGABIT ETHERNET MIN. LINK DISTANCE (METERS)	
		850 NM	1300 NM	1550 NM	850 NM	1300 NM		850 NM	1300 NM	850 NM	1300 NM
(6) 62.5 Giga-Link™ 300	OM1	3.5	1.2	N/A	200	600	N/A	300	550	32	—
(8) 62.5 Giga-Link™ 1000	OM1	3.5	1.2	N/A	350	600	N/A	500	1000	65	—
(5) 50 Giga-Link™ 600	OM2	3.5	1.5	N/A	500	500	N/A	600	600	82	—
(7) 50 Giga-Link™ 2000	OM2	3.5	1.2	N/A	500	800	N/A	750	2000	110	—
(A) 50 Laser-Link 150	OM2	3.0	1.2	N/A	700	500	950	800	550	150	—
(L) 50 Laser-Link 300	OM3	3.0	1.2	N/A	1500	500	2000	1000	550	300	—
(C) 50 Laser-Link 550	OM4	3.0	1.2	N/A	3500	550	4700	1040	550	550	—
(K) SM Futureguide SR-15e Bend Insensitive	OS2	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5000	N/A	10,000
(9) SM	OS2	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5,000	N/A	10,000
(1) 100/140 Multimode		5.5	3.5	N/A	100	100	N/A	N/A	N/A	N/A	N/A

Tested to meet or exceed EIA/TIA 568-B3 / Telcordia GR-409-CORE

Armored Tight Buffered Circular Premise Cable

Mechanical Data

AFL NO.		FIBER COUNT	NOMINAL DIAMETER	WEIGHT		TENSION				BENDING RADIUS	
RISER	PLENUM		INCHES (MM)	RISER	PLENUM	RISER		PLENUM		INSTALLATION	LONG TERM
				LBS/1000 FT (KG/KM)	LBS/1000 FT (KG/KM)	INSTALLATION	LONG TERM	INSTALLATION	LONG TERM		
						LBS (N)	LBS (N)	LBS (N)	LBS (N)	INCHES (CM)	INCHES (CM)
UR004*481001-AIAR	UP004*481001-AIAP	4	0.46 (11.8)	79 (117)	89 (132)	150 (660)	45 (198)	100 (440)	30 (132)	7.0 (17.7)	5.0 (12.7)
CR006*441001-AIAR	CP006*441001-AIAP	6	0.46 (11.8)	74 (109)	82 (122)	150 (660)	45 (198)	100 (440)	30 (132)	7.0 (17.7)	4.8 (12.2)
CR012*551001-AIAR	CP012*551001-AIAP	12	0.46 (11.8)	79 (117)	89 (132)	150 (660)	45 (198)	100 (440)	30 (132)	7.0 (17.7)	5.0 (12.7)
CR024*891001-AIAR	CP024*841001-AIAP	24	0.62 (15.7)	129 (193)	144 (215)	300 (1320)	90 (396)	150 (660)	45 (198)	9.3 (23.6)	5.3 (13.4)
CR024*441001-AIAR	CP024*441001-AIAP	24	0.52 (13.3)	247 (367)	273 (407)	300 (1320)	90 (396)	150 (660)	45 (198)	7.9 (20.0)	5.2 (13.3)
CR036*551001-AIAR	CP036*551001-AIAP	36	0.94 (24)	256 (395)	294 (439)	300 (1320)	90 (396)	150 (660)	45 (198)	14.2 (36.0)	9.4 (24.0)
CR048*551001-AIAR	CP048*551001-AIAP	48	0.94 (24)	256 (395)	294 (439)	300 (1320)	90 (396)	150 (660)	45 (198)	14.2 (36.0)	9.4 (24.0)
CR072*551001-AIAR	CP072*551001-AIAP	72	1.10 (27.9)	355 (530)	401 (597)	300 (1320)	90 (396)	150 (660)	45 (198)	16.5 (41.9)	11.0 (27.9)
CR096*551001-AIAR	CP096*551001-AIAP	96	1.21 (30.7)	472 (705)	507 (755)	300 (1320)	90 (396)	150 (660)	45 (198)	18.1 (46.1)	12.1 (30.7)
CR144*551001-AIAR	CP144*551001-AIAP	144	1.32 (33.5)	498 (742)	534 (796)	300 (1320)	90 (396)	150 (660)	45 (198)	19.8 (50.3)	13.2 (33.5)

★ Please specify fiber type when ordering (see below)

5 = 50/125 µm multimode GIGA-Link™ 600

7 = 50/125 µm multimode GIGA-Link™ 2000

6 = 62.5/125 µm multimode GIGA-Link™ 300

8 = 62.5/125 µm multimode GIGA-Link™ 1000

9 = 9/125 µm single-mode

L = 50/125 µm multimode Laser-Link 300 for 10 Gigabit Ethernet

K = Single-mode Futureguide SR-15e Bend Insensitive

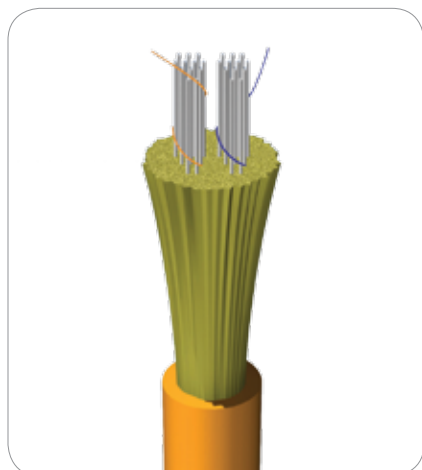
Contact Customer Service for special fiber types/performance needs.

Temperature Specifications

TYPE	TEMPERATURE RANGE	
	OPERATING/ INSTALLATION	STORAGE
Plenum	0°C to +70°C	-40°C to +75°C
Riser	-10°C to +70°	-40°C to +75°

Cable Length - Reel Size

ITEM	REEL F	REEL G
Reel Height (inches)	42	60
Reel Outside Width (inches)	36	36
Drum Diameter (inches)	23	30
Reel Weight (lbs)	148	287
CAPACITY: METERS (FEET)		
4 Fiber w/Interlocking Armor	2,600 (8,530)	5,000 (16,404)
6 Fiber w/Interlocking Armor	2,600 (8,530)	5,000 (16,404)
8 Fiber w/Interlocking Armor	2,600 (8,530)	5,000 (16,404)
12 Fiber w/Interlocking Armor	2,250 (7,382)	4,800 (15,748)
18 Fiber w/Interlocking Armor	1,700 (5,577)	3,600 (11,811)
24 Fiber w/Interlocking Armor	1,500 (4,921)	3,200 (10,500)



Interconnect Premise MicroCore® Cable

Interconnect Premise Microcore Cables are designed for MTP terminations and meet the interconnect standards of Telcordia GR-409. To minimize the cable's diameter, multiple colored 250 μm fibers and aramid strands are packaged in a high performance PVC jacket. Fiber counts from 8 to 48 fibers are available. Both simplex and zipcord designs are available.

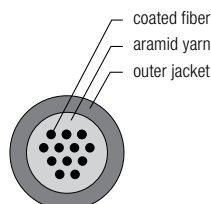
Features

- Plenum NFPA 262 Rated
- Tested to meet or exceed GR-409-CORE
- Compliant to Directive 2002/95/EC (RoHS)
- 3.0 mm Outer Diameter for Round Boot 12-count MTP Cables
- 3.8 mm Outer Diameter for Round Boot 24-count MTP Cables
- 4.8 mm Outer Diameter for Round Boot 48-count MTP Cables
- LSZH cables compliant to IEC60332, IEC60333, and IEC61034

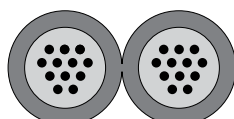
Applications

- Building Interconnections
- Data Centers and Central Offices
- Anywhere MTP connections can be used
- High Density Interconnects
- 40gbit and 100gbit Ethernet Architecture

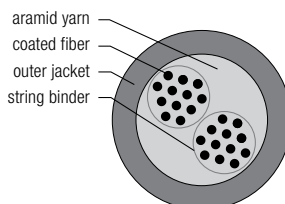
Cable Components



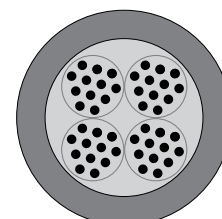
8 or 12 Fiber Simplex



16 or 24 Fiber Zipcord



16 or 24 Fiber Simplex



48 Fiber Simplex

Mechanical Data

CABLE TYPE	PLENUM	LSZH	FIBER COUNT	NOMINAL DIAMETER	WEIGHT	TENSION LBS (N)		BENDING RADIUS INCHES (CM)	
	AFL NO.			INCHES (MM)	LBS/1000FT (KG/KM)	INSTALLATION	LONG TERM	INSTALLATION	LONG TERM
	SP/ZP	SE/ZE							
Simplex	SP008*30100B	SE008*30100B	8	0.12 (3.0)	5.8 (8.6)	50 (222)	17 (76)	1.8 (4.5)	1.2 (3.0)
	SP012*30100B	SE012*30100B	12	0.12 (3.0)	6.0 (9.0)	50 (222)	17 (76)	1.8 (4.5)	1.2 (3.0)
	SP016*38100B	SE016*38100B	16	0.15 (3.8)	9.6 (15.4)	100 (445)	33 (147)	2.2 (5.7)	1.5 (3.8)
	SP024*38100B	SE024-38100B	24	0.15 (3.8)	13.2 (19.6)	100 (445)	33 (147)	2.2 (5.7)	1.5 (3.8)
	SP048*48100B	SE048-48100B	48	0.19 (4.8)	26.4 (40.0)	100 (445)	33 (147)	2.8 (7.2)	1.9 (4.8)
Zipcord	ZP016*30100B	ZE016-30100B	16	0.12 (3.0)	11.8 (17.6)	100 (445)	33 (147)	1.8 (4.5)	1.2 (3.0)
	ZP024*30100B	ZE024-30100B	24	0.12 (3.0)	12.4 (18.4)	100 (445)	33 (147)	1.8 (4.5)	1.2 (3.0)

Temperature Specifications

TEMPERATURE RANGE	
OPERATING/INSTALLATION	STORAGE
0°C to +70°C	-40°C to +75°C

Interconnect Premise MicroCore® Cable

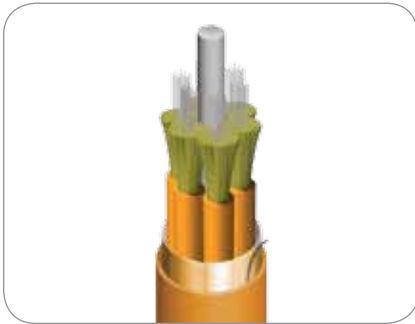
Specifications

CORE SIZE/ FIBER TYPE	ISO	MAXIMUM ATTENUATION (DB/KM)			OVERFILL LAUNCH MIN. BANDWIDTH (MHZ•KM)		EMB _c (MHZ•KM)	GIGABIT ETHERNET MIN. LINK DISTANCE (METERS)		10 GIGABIT ETHERNET MIN. LINK DISTANCE (METERS)	
		850 NM	1300 NM	1550 NM	850 NM	1300 NM		850 NM	1300 NM	850 NM	1300 NM
(6) 62.5 Giga-Link™ 300	OM1	3.5	1.2	N/A	200	600	N/A	300	550	32	—
(8) 62.5 Giga-Link™ 1000	OM1	3.5	1.2	N/A	350	600	N/A	500	1000	65	—
(5) 50 Giga-Link™ 600	OM2	3.5	1.5	N/A	500	500	N/A	600	600	82	—
(7) 50 Giga-Link™ 2000	OM2	3.5	1.2	N/A	500	800	N/A	750	2000	110	—
(A) 50 Laser-Link 150	OM2	3.0	1.2	N/A	700	500	950	800	550	150	—
(L) 50 Laser-Link 300	OM3	3.0	1.2	N/A	1500	500	2000	1000	550	300	—
(C) 50 Laser-Link 550	OM4	3.0	1.2	N/A	3500	550	4700	1040	550	550	—
(K) SM Futureguide SR-15e Bend Insensitive (ITU G.657.A)	—	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5000	N/A	10000
(9) SM	OS1	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5000	N/A	10000
(1) 100/140 Multimode	—	5.5	3.5	N/A	100	100	N/A	N/A	N/A	N/A	N/A

Tested to meet or exceed EIA/TIA 568-B3 / Telcordia GR-409-CORE

Cable Length - Reel Size

ITEM	REEL A	REEL B	REEL C	REEL D	REEL E
Reel Height (inches)	16	24	30	34	42
Reel Outside Width (inches)	15	17	15.25	21.25	36
Drum Diameter (inches)	8	12	12	12	23
Reel Weight (lbs)	10	23	34	44	140
CAPACITY: METERS (FEET)					
12 Fiber Interconnect	2200 (7220)	—	—	—	—
12 Fiber Ruggedized	1000 (3281)	3500 (11485)	—	—	—
24 Fiber	600 (1970)	2000 (6560)	4000 (13123)	—	—
36 Fiber (4 @ 1)	—	900 (2953)	1500 (4920)	3000 (9843)	—
48 Fiber	—	1501 (4920)	3000 (9843)	—	—
72 Fiber	—	—	—	1000 (3281)	2000 (6560)
96 Fiber	—	—	—	1000 (3281)	2000 (6560)
144 Fiber	—	—	—	—	1000 (3281)



Sub-unitized Premise MicroCore® Cable

Sub-unitized Premise MicroCore Cables are ideal for 12-144 fiber high performance premise installations where space is a premium. The round cross-sectional building blocks combine to provide a tight package, while enabling high density architecture. Each 12-fiber sub-unit consists of 250 μ m colored fibers and aramid strength members enclosed by a high performance jacket. The sub-units independently meet the interconnect standards of Telcordia GR-409.

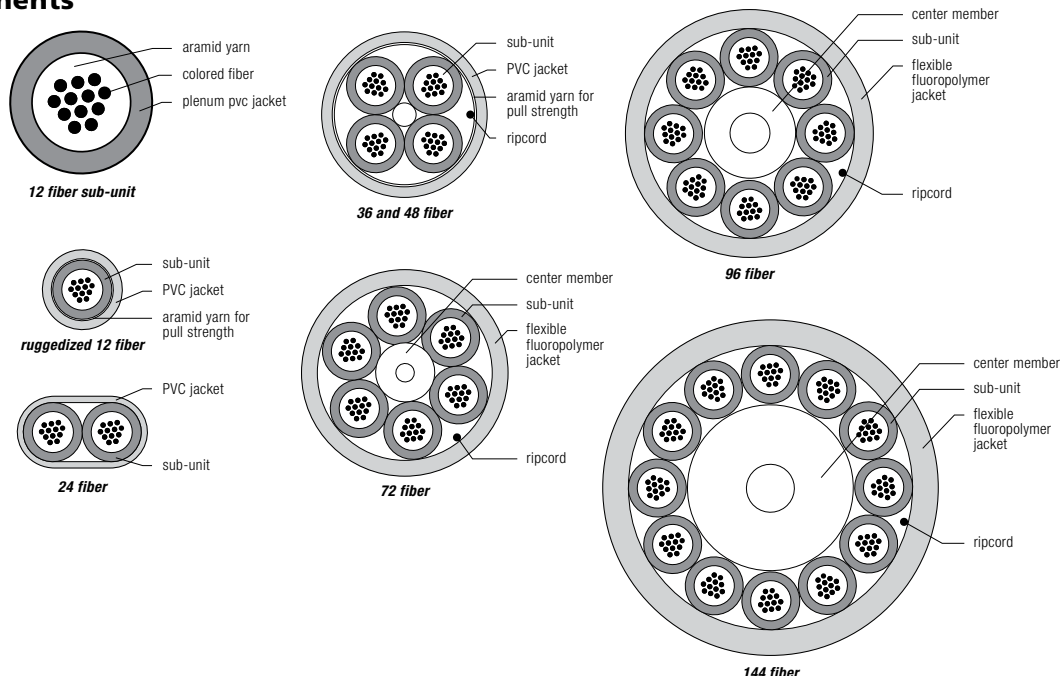
Applications

- In-building cable runs where space is a premium
- Trunk applications where flexibility and small required bend radius are needed to route cable.
- High density cable areas like Data Centers and Central Offices
- Lower cost cable runs where easy handling of tight buffered fibers not needed because cable will be spliced to factory terminated pigtails
- Trunk cables where MTP can be directly terminated on subunits

Features

- Plenum NFPA 262 rated
- Tested to meet or exceed EIA/TIA 568-B3, Telcordia GR-409-CORE and ANSI/ICEA S-83-596
- LSZH performance verified to IEC 60754-2, 61034-2 and 60332-3-24
- Flexible dielectric FRP central strength member in four position, 24 fiber designs and higher
- High performance fluoropolymer, outer PVC, LSZH outer sheath
- No preferential bend typically found in stacked ribbon designs
- Small diameter/superior bend performance
- All aramid tensile strength members within sub-units
- Sub-units are suitable for direct termination with round boot MTP
- Compliant to Directive 2002/95/EC (RoHS)

Cable Components



Sub-unitized Premise MicroCore® Cable

Mechanical Data

PART NUMBER		FIBER COUNT	NOMINAL DIAMETER	WEIGHT	TENSION		BENDING RADIUS		TEMPERATURE RANGE	
LSZH	PLENUM				LBS (N)		INCHES (CM)			
			INCHES (MM)	LBS/1000FT (KG/KM)	INSTALL-ATION	LONG TERM	INSTALL-ATION	LONG TERM	OPERATING/INSTALLATION	STORAGE
GE012★31100B	GP012★31100B	12	0.18 (4.5)	15 (22)	150 (660)	45 (198)	2.7 (6.8)	1.8 (4.5)	0°C to +70°C	-40°C to +70°C
GE024★31100B-2	GP024★31100B-2	24	0.18 x 0.30 (4.5 x 7.4)	22 (33)	150 (660)	45 (198)	2.7 (6.8)	1.8 (4.5)		
GE024★31100B-4	GP024★31100B-4	24	0.38 (9.7)	54 (80)	150 (660)	45 (198)	5.7 (15.5)	3.8 (9.7)		
GE036★31100B	GP036★31100B	36	0.38 (9.7)	54 (80)	150 (660)	45 (198)	5.7 (15.5)	3.8 (9.7)		
GE048★31100B	GP048★31100B	48	0.38 (9.7)	54 (80)	150 (660)	45 (198)	5.7 (15.5)	3.8 (9.7)		
GE072★31100B	GP072★31100B	72	0.44 (11.1)	84 (125)	150 (660)	45 (198)	6.6 (16.8)	4.4 (11.1)		
GE096★31100B	GP096★31100B	96	0.52 (13.3)	118 (175)	150 (660)	45 (198)	7.8 (19.8)	5.2 (13.3)		
GE144★31100B	GP144★31100B	144	0.69 (17.4)	155 (230)	150 (660)	45 (198)	10.4 (26.3)	6.9 (17.4)		

★ Please specify fiber type when ordering (see below)

5 = 50/125 µm multimode GIGA-Link™ 600

7 = 50/125 µm multimode GIGA-Link™ 2000

6 = 62.5/125 µm multimode GIGA-Link™ 300

8 = 62.5/125 µm multimode GIGA-Link™ 1000

Contact Customer Service for special fiber types/performance needs

9 = 9/125 µm single-mode

L = 50/125 µm multimode Laser-Link 300 for 10 Gigabit Ethernet

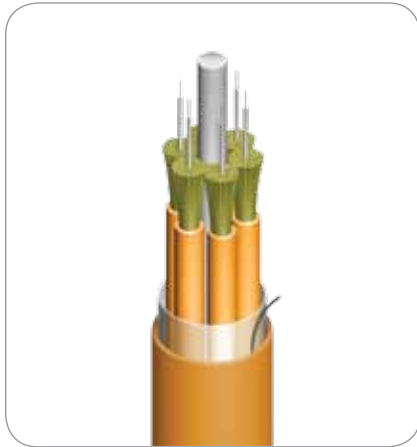
K = Single-mode Futureguide SR-15e Bend Insensitive

Specifications

CORE SIZE/ FIBER TYPE	ISO/ IEC	MAXIMUM ATTENUATION (DB/KM)			OVERFILL LAUNCH MIN. BANDWIDTH (MHZ•KM)		EMB _c (MHZ•KM)	GIGABIT ETHERNET MIN. LINK DISTANCE (METERS)		10 GIGABIT ETHERNET MIN. LINK DISTANCE (METERS)	
		850 NM	1300 NM	1550 NM	850 NM	1300 NM		850 NM	1300 NM	850 NM	1300 NM
(6) 62.5 Giga-Link™ 300	OM1	3.5	1.2	N/A	200	600	N/A	300	550	32	—
(8) 62.5 Giga-Link™ 1000	OM1	3.5	1.2	N/A	350	600	N/A	500	1000	65	—
(5) 50 Giga-Link™ 600	OM2	3.5	1.5	N/A	500	500	N/A	600	600	82	—
(7) 50 Giga-Link™ 2000	OM2	3.5	1.2	N/A	500	800	N/A	750	2000	110	—
(A) 50 Laser-Link 150	OM2	3.0	1.2	N/A	700	500	950	800	550	150	—
(L) 50 Laser-Link 300	OM3	3.0	1.2	N/A	1500	500	2000	1000	550	300	—
(C) 50 Laser-Link 550	OM4	3.0	1.2	N/A	3500	550	4700	1040	550	550	—
(K) SM Futureguide SR-15e Bend Insensitive (ITU G.657.A)	OS2	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5000	N/A	10,000
(9) SM	OS2	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5,000	N/A	10,000
(1) 100/140 Multimode		5.5	3.5	N/A	100	100	N/A	N/A	N/A	N/A	N/A

Cable Length - Reel Size

ITEM	REEL A	REEL B	REEL C	REEL D	REEL E
Reel Height (inches)	16	24	30	34	42
Reel Outside Width (inches)	15	17	15.25	21.25	36
Drum Diameter (inches)	8	12	12	12	23
Reel Weight (lbs)	10	23	34	44	140
CAPACITY: METERS (FEET)					
12 Fiber Interconnect	2200 (7220)	—	—	—	—
12 Fiber Ruggedized	1000 (3281)	3500 (11485)	—	—	—
24 Fiber	600 (1970)	2000 (6560)	4000 (13123)	—	—
36 Fiber (4 @ 1)	—	900 (2953)	1500 (4920)	3000 (9843)	—
48 Fiber	—	1501 (4920)	3000 (9843)	—	—
72 Fiber	—	—	—	1000 (3281)	2000 (6560)
96 Fiber	—	—	—	1000 (3281)	2000 (6560)
144 Fiber	—	—	—	—	1000 (3281)



Breakout Cable

Breakout cables combine multiple fiber flexibility with the strength of individually jacketed fibers. Breakout cables from AFL can be terminated for fanout assemblies. Breakout cable is available in counts of 2-24 fibers.

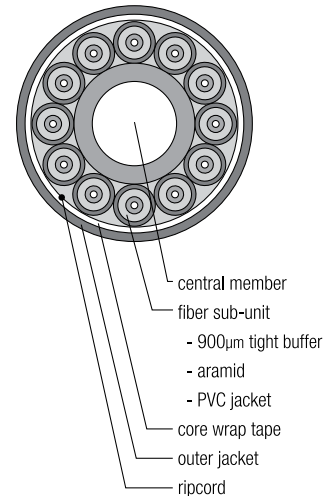
Applications

- Rugged multi-fiber cross-connects
- Intrabuilding "backbone"
- Fiber "backbone" to communications closet

Features

- Sub-units printed every 6 inches
- Tested to meet or exceed EIA/TIA 568-A / GR-409-CORE
- Compliant to Directive 2002/95/EC (RoHS)
- MSHA approved for mining applications
- Tight buffer and sub-unit jacket are available in a variety of colors

Cable Components



Mechanical Data

CABLE TYPE	AFL NO.	FIBER COUNT	NOMINAL DIAMETER INCHES (MM)	WEIGHT LBS/1000FT (KG/KM)	TENSION LBS (N)		BENDING RADIUS INCHES (CM)	
					INSTALLATION	LONG TERM	INSTALLATION	LONG TERM
Riser Breakout Cable	BR004★241001	4	0.33 (8.5)	44 (65)	150 (660)	45 (198)	5.1 (12.8)	3.4 (8.5)
	BR006★241001	6	0.40 (10.1)	64 (95)	150 (660)	45 (198)	6.0 (15.2)	4.0 (10.1)
	BR008★241001	8	0.46 (11.6)	84 (125)	150 (660)	45 (198)	6.9 (17.4)	4.6 (11.6)
	BR012★241001	12	0.58 (14.7)	138 (205)	150 (660)	45 (198)	8.7 (22.1)	5.8 (14.7)
	BR024★241001	24	0.65 (16.6)	118 (175)	300 (1320)	90 (396)	11.4 (29.0)	7.6 (19.3)
Plenum Breakout Cable	BP004★301001	4	0.36 (9.0)	57 (85)	100 (440)	30 (132)	5.3 (13.5)	3.6 (9.0)
	BP006★301001	6	0.42 (10.6)	79 (118)	100 (440)	30 (132)	6.3 (15.9)	4.2 (10.6)
	BP008★301001	8	0.48 (12.2)	105 (156)	100 (440)	30 (132)	7.2 (18.3)	4.8 (12.2)
	BP012★301001	12	0.61 (15.5)	169 (252)	100 (440)	30 (132)	9.2 (23.2)	6.1 (15.5)

- ★ Riser sub-units are 2.4 mm (2.0 mm and 3.0 mm sub-units are also available)
- ★ Plenum sub-units are 3.0 mm (2.0 mm, 2.4 mm and 2.8 mm sub-units are also available)
- ★ Please specify fiber type when ordering (see below)

5 = 50/125 µm multimode GIGA-Link™ 600
 7 = 50/125 µm multimode GIGA-Link™ 2000
 6 = 62.5/125 µm multimode GIGA-Link™ 300
 8 = 62.5/125 µm multimode GIGA-Link™ 1000
 9 = 9/125 µm single-mode
 L = 50/125 µm multimode Laser-Link 300 for 10 Gigabit Ethernet
 K = Single-mode Futureguide SR-15e Bend Insensitive

(see page P-2 for optical performance specs for these fiber types)
 Contact Customer Service for special fiber types/performance needs.

Temperature Specifications

TEMPERATURE RANGE	
OPERATING/ INSTALLATION	STORAGE
0°C to +70°C	-40°C to +75°C

Breakout Cable

Specifications

CORE SIZE/ FIBER TYPE	ISO/ IEC	MAXIMUM ATTENUATION (DB/KM)			OVERFILL LAUNCH MIN. BANDWIDTH (MHZ•KM)		EMB _c (MHZ•KM)	GIGABIT ETHERNET MIN. LINK DISTANCE (METERS)		10 GIGABIT ETHERNET MIN. LINK DISTANCE (METERS)	
		850 NM	1300 NM	1550 NM	850 NM	1300 NM		850 NM	1300 NM	850 NM	1300 NM
(6) 62.5 Giga-Link™ 300	OM1	3.5	1.2	N/A	200	600	N/A	300	550	32	—
(8) 62.5 Giga-Link™ 1000	OM1	3.5	1.2	N/A	350	600	N/A	500	1000	65	—
(5) 50 Giga-Link™ 600	OM2	3.5	1.5	N/A	500	500	N/A	600	600	82	—
(7) 50 Giga-Link™ 2000	OM2	3.5	1.2	N/A	500	800	N/A	750	2000	110	—
(A) 50 Laser-Link 150	OM2	3.0	1.2	N/A	700	500	950	800	550	150	—
(L) 50 Laser-Link 300	OM3	3.0	1.2	N/A	1500	500	2000	1000	550	300	—
(C) 50 Laser-Link 550	OM4	3.0	1.2	N/A	3500	550	4700	1040	550	550	—
(K) SM Futureguide SR-15e Bend Insensitive (ITU G.657.A)	OS2	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5000	N/A	10,000
(9) SM	OS2	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5,000	N/A	10,000
(1) 100/140 Multimode		5.5	3.5	N/A	100	100	N/A	N/A	N/A	N/A	N/A

Tested to meet or exceed EIA/TIA 568-B3 / Telcordia GR-409-CORE

Cable Length - Reel Size

ITEM	REEL F
Reel Height (inches)	42
Reel Outside Width (inches)	36
Drum Diameter (inches)	23
Reel Weight (lbs)	148
CAPACITY: meters (feet)	
4 Fiber Breakout	2,500 / (8,200)
6 Fiber Breakout	2,500 / (8,200)
8 Fiber Breakout	2,500 / (8,200)
12 Fiber Breakout	1,600 / (5,250)



Indoor/Outdoor Breakout Cable

AFL's Indoor/Outdoor Breakout Cables are perfectly suited for rugged applications and installations requiring increased performance. Available in 2 to 12 fiber counts, these cables feature a UV- and fungal-resistant semi-pressure extruded outer jacket. The individual sub-units measure 2.5 mm, allowing for ease of field termination, and use water-blocking aramid which further protects the tight-buffered fiber.

Features

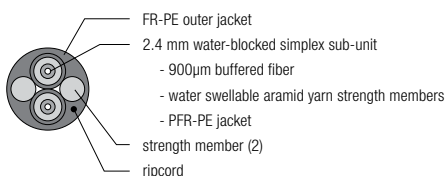
- Fungus, water and UV-resistant PVC jacket featuring SP extrusion technology
- Riser-rated with water-blocked sub-units
- Sub-units and tight buffer available in a variety of colors
- Tested to meet or exceed GR-409-CORE and ICEA-S-104-696
- Compliant to Directive 2002/95/EC (RoHS)
- MSHA approved for mining applications

Applications

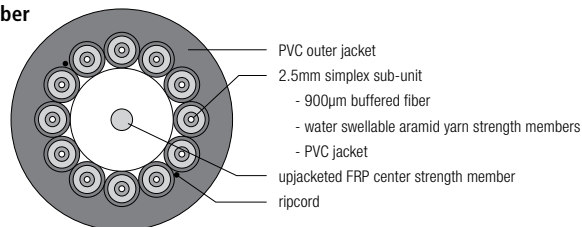
- Harsh Environment
- Mining
- Industrial
- Campus Environment

Cable Components

2-Fiber



12-Fiber



Mechanical Data

AFL NO.	FIBER COUNT	NOMINAL DIAMETER	WEIGHT LBS/1000FT (KG/KM)	TENSION LBS (N)		BENDING RADIUS INCHES (CM)	
		INCHES (MM)		INSTALLATION	LONG TERM	INSTALLATION	LONG TERM
BX002★251801	2	0.30 (7.5)	32 (49)	300 (1335)	150 (667)	3.8 (9.6)	2.5 (6.4)
BX004★251801	4	0.32 (8.2)	37 (55)	450 (2000)	185 (825)	3.9 (9.9)	3.2 (8.1)
BX006★251801	6	0.38 (9.6)	54 (80)	750 (3360)	375 (1680)	4.8 (12.2)	3.8 (9.7)
BX008★251801	8	0.44 (11.1)	75 (111)	1000 (4450)	425 (1750)	6.6 (16.8)	4.4 (11.2)
BX012★251801	12	0.57 (14.5)	165 (245)	1425 (6360)	570 (2535)	8.5 (21.6)	5.7 (14.5)

2.9 mm sub-units are also available.

★ Please specify fiber type when ordering (see below)

5 = 50/125 µm multimode GIGA-Link™ 600
 7 = 50/125 µm multimode GIGA-Link™ 2000
 6 = 62.5/125 µm multimode GIGA-Link™ 300
 8 = 62.5/125 µm multimode GIGA-Link™ 1000
 9 = 9/125 µm single-mode
 L = 50/125 µm multimode Laser-Link 300 for 10 Gigabit Ethernet
 K = Single-mode Futureguide SR-15e Bend Insensitive

Contact Customer Service for special fiber types/performance needs.

Temperature Specifications

PARAMETER	VALUE
Storage	-40°C to +70°C
Operating	-40°C to +70°C
Installation	-20°C to +70°C



Indoor/Outdoor Breakout Cable

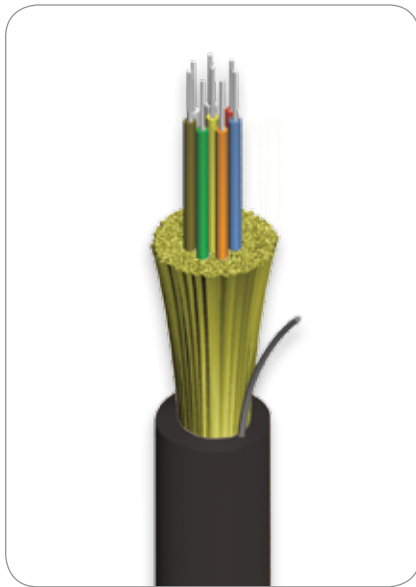
Specifications

CORE SIZE/ FIBER TYPE	ISO/ IEC	MAXIMUM ATTENUATION (DB/KM)			OVERFILL LAUNCH MIN. BANDWIDTH (MHZ•KM)		EMB _C (MHZ•KM)	GIGABIT ETHERNET MIN. LINK DISTANCE (METERS)		10 GIGABIT ETHERNET MIN. LINK DISTANCE (METERS)	
		850 NM	1300 NM	1550 NM	850 NM	1300 NM		850 NM	1300 NM	850 NM	1300 NM
(6) 62.5 Giga-Link™ 300	OM1	3.5	1.2	N/A	200	600	N/A	300	550	32	—
(8) 62.5 Giga-Link™ 1000	OM1	3.5	1.2	N/A	350	600	N/A	500	1000	65	—
(5) 50 Giga-Link™ 600	OM2	3.5	1.5	N/A	500	500	N/A	600	600	82	—
(7) 50 Giga-Link™ 2000	OM2	3.5	1.2	N/A	500	800	N/A	750	2000	110	—
(A) 50 Laser-Link 150	OM2	3.0	1.2	N/A	700	500	950	800	550	150	—
(L) 50 Laser-Link 300	OM3	3.0	1.2	N/A	1500	500	2000	1000	550	300	—
(C) 50 Laser-Link 550	OM4	3.0	1.2	N/A	3500	550	4700	1040	550	550	—
(K) SM Futureguide SR-15e Bend Insensitive (ITU G.657.A)	OS2	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5000	N/A	10,000
(9) SM	OS2	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5,000	N/A	10,000
(1) 100/140 Multimode		5.5	3.5	N/A	100	100	N/A	N/A	N/A	N/A	N/A

Tested to meet or exceed EIA/TIA 568-B3 / Telcordia GR-409-CORE

Cable Length - Reel Size

ITEM	REEL F
Reel Height (inches)	42
Reel Outside Width (inches)	36
Drum Diameter (inches)	23
Reel Weight (lbs)	148
CAPACITY: meters (feet)	
4 Fiber Breakout	2,500 / (8,200)
6 Fiber Breakout	2,500 / (8,200)
8 Fiber Breakout	2,500 / (8,200)
12 Fiber Breakout	1,600 / (5,250)



Indoor/Outdoor Riser Tight Buffered Cable

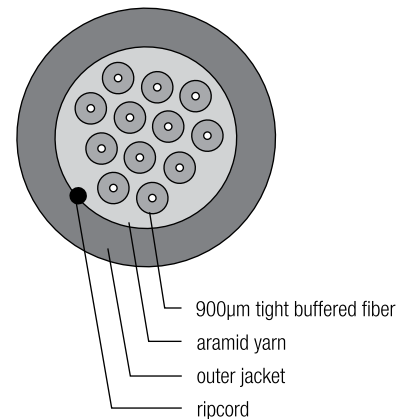
Indoor/Outdoor Tight Buffered cables are specified for campus network cabling between buildings where interbuilding lengths are short enough that the installer can recognize savings from the lower costs of terminating tight buffered cables.

For indoor applications the cable is OFNR listed. For outdoor applications the cable is manufactured with an outer jacket that incorporates a UV stabilizer for protection against exposure to the sun plus an anti-fungus protection for use in underground applications.

Features

- Cables are water blocked and meet water penetration requirements of GR-20-CORE (this helps ensure that any damage to cable is restricted to a repairable length of several meters)
- Outer jacket is moisture-resistant, fungus-resistant and UV resistant for outdoor use
- With a Riser rating, this cable can be used in all environments: Riser, general inside plant and outside plant
- Tested to meet or exceed EIA/TIA 568-A / GR-409-CORE and ICEA-S-104-696
- MSHA approved for mining applications
- Compliant to Directive 2002/95/EC (RoHS)

Cable Components



Mechanical Data

CABLE TYPE	AFL NO.	FIBER COUNT	NOMINAL DIAMETER	WEIGHT	TENSION		BENDING RADIUS	
			INCHES (MM)	LBS/1000FT (KG/ KM)	LBS (N)		INCHES (CM)	
	INSTALLA- TION				LONG TERM	INSTALLA- TION	LONG TERM	
Indoor/Outdoor Tight Buffered Cable	KR002★481001	2	0.19 (4.8)	14 (21)	150 (660)	45 (198)	2.8 (7.2)	1.9 (4.8)
	KR004★481001	4	0.19 (4.8)	15 (23)	150 (660)	45 (198)	2.8 (7.2)	1.9 (4.8)
	KR006★531001	6	0.21 (5.3)	19 (28)	150 (660)	45 (198)	3.1 (8.0)	2.1 (5.3)
	KR008★561001	8	0.22 (5.6)	23 (33)	150 (660)	45 (198)	3.3 (8.4)	2.2 (5.6)
	KR012★651001	12	0.26 (6.5)	26 (38)	150 (660)	45 (198)	3.5 (9.0)	2.6 (6.5)
	KR018★801001	18	0.31 (8.0)	40 (59)	300 (1320)	90 (396)	4.7 (12.0)	3.1 (8.0)
	KR024★871001	24	0.33 (8.7)	46 (69)	300 (1320)	90 (396)	5.2 (13.1)	3.4 (8.7)

★ Please specify fiber type when ordering (see below)

5 = 50/125 µm multimode GIGA-Link™ 600
 7 = 50/125 µm multimode GIGA-Link™ 2000
 6 = 62.5/125 µm multimode GIGA-Link™ 300
 8 = 62.5/125 µm multimode GIGA-Link™ 1000
 9 = 9/125 µm single-mode
 L = 50/125 µm multimode Laser-Link 300 for 10 Gigabit Ethernet
 K = Single-mode Futureguide SR-15e Bend Insensitive

Contact Customer Service for special fiber types/performance needs.
 Standard jacket color is black. Other colors available by request.

Temperature Specifications

TEMPERATURE RANGE		
OPERATING	INSTALLATION	STORAGE
-40°C to +75°C	-20°C to +75°C	-40°C to +75°C



Indoor/Outdoor Riser Tight Buffered Cable

Specifications

CORE SIZE/ FIBER TYPE	ISO/ IEC	MAXIMUM ATTENUATION (DB/KM)			OVERFILL LAUNCH MIN. BANDWIDTH (MHZ•KM)		EMB _c (MHZ•KM)	GIGABIT ETHERNET MIN. LINK DISTANCE (METERS)		10 GIGABIT ETHERNET MIN. LINK DISTANCE (METERS)	
		850 NM	1300 NM	1550 NM	850 NM	1300 NM		850 NM	1300 NM	850 NM	1300 NM
(6) 62.5 Giga-Link™ 300	OM1	3.5	1.2	N/A	200	600	N/A	300	550	32	—
(8) 62.5 Giga-Link™ 1000	OM1	3.5	1.2	N/A	350	600	N/A	500	1000	65	—
(5) 50 Giga-Link™ 600	OM2	3.5	1.5	N/A	500	500	N/A	600	600	82	—
(7) 50 Giga-Link™ 2000	OM2	3.5	1.2	N/A	500	800	N/A	750	2000	110	—
(A) 50 Laser-Link 150	OM2	3.0	1.2	N/A	700	500	950	800	550	150	—
(L) 50 Laser-Link 300	OM3	3.0	1.2	N/A	1500	500	2000	1000	550	300	—
(C) 50 Laser-Link 550	OM4	3.0	1.2	N/A	3500	550	4700	1040	550	550	—
(K) SM Futureguide SR-15e Bend Insensitive (ITU G.657.A)	OS2	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5000	N/A	10,000
(9) SM	OS2	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5,000	N/A	10,000
(1) 100/140 Multimode		5.5	3.5	N/A	100	100	N/A	N/A	N/A	N/A	N/A

Tested to meet or exceed EIA/TIA 568-B3 / Telcordia GR-409-CORE

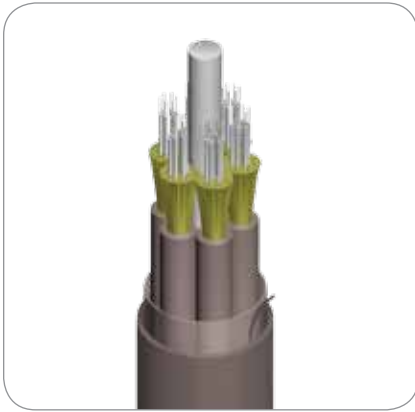
Maximum Cable Length - Reel Size

ITEM	FIBER BOX*	REEL A	REEL B	REEL C	REEL D	REEL E
Reel/Box Height (inches)	15.13	16	24	30	34	34
Reel/Box Outside Width (inches)	13.0	15	17	15.25	21.25	20
Drum Diameter (inches)	8.0	8	12	12	12	24
Reel Weight (lbs)	6.0	10	23	34	44	48
CAPACITY: METERS (FEET)						
2 Fiber	305 (1,000)	1,000 (3,281)	3,200 (10,500)	5,000 (16,404)	—	—
4 Fiber	305 (1,000)	1,000 (3,281)	3,200 (10,500)	5,000 (16,404)	—	—
6 Fiber	305 (1,000)	—	2,000 (6,561)	3,400 (11,154)	5,000 (16,404)	—
8 Fiber	—	—	1,700 (5,577)	4,000 (9,514)	5,000 (16,404)	—
12 Fiber	—	—	1,250 (4,100)	2,100 (6,890)	—	—
18 Fiber	—	—	—	—	—	1,500 (4,921)
24 Fiber	—	—	—	—	—	1,500 (4,921)

* Add suffix "—XMFBOX" to cable AFL number to specify "Fiber-In-A-Box" solution. "X" indicates length of cable in thousands of feet. Only available in standard lengths as indicated in chart above.

EXAMPLE: KR0029481001—3MFBOX

Would be the resulting AFL number for 3,000 feet of KR002*481001 cable with 9/125 µm single-mode fiber and the Fiber-In-A-Box solution. Refer to Fiber-In-A-Box data at front of catalog.



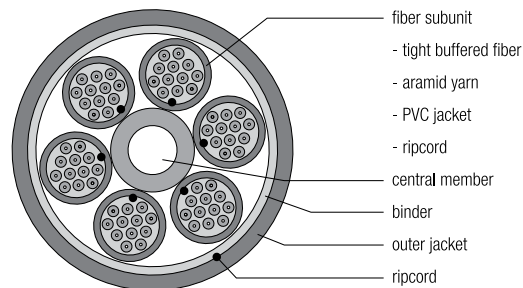
Indoor/Outdoor Multi-unit Riser Tight Buffered Cable

AFL now offers high fiber count Indoor/Outdoor Riser Cables. Waterblocked 12-fiber sub-units are helically stranded to provide sub-unitized cables ranging from 24 to 72 fiber counts. These cables are OFNR listed for indoor applications. Both the sub-unit jackets and outer sheath contain a UV stabilizer and anti-fungus protection for use in outdoor applications. Sub-units contain a water-swellable aramid and 12 tight buffered fibers.

Features

- Sub-units are water blocked and meet water penetration requirements of GR-20-CORE (this helps ensure that any damage to cable is restricted to a repairable length of several meters)
- Outer jacket is moisture-resistant, fungus-resistant and UV resistant for outdoor use
- With a Riser rating, this cable can be used in all environments: Riser, general inside plant and outside plant
- Sub-units are tested to meet or exceed EIA/TIA 568-A / GR-409-CORE and ICEA-S-104-696
- Compliant to Directive 2002/95/EC (RoHS)
- MSHA approved for mining applications

Cable Components



Mechanical Data

CABLE TYPE	AFL NO.	FIBER COUNT	NOMINAL DIAMETER	WEIGHT	TENSION		BENDING RADIUS	
	RISER		INCHES (MM)	LBS/1000 FT (KG/KM)	LBS (N)		INCHES (CM)	
					INSTALLATION	LONG TERM	INSTALLATION	LONG TERM
Indoor/Outdoor Tight Buffered Cable	KR024★601001	24	0.67 (16.9)	169 (252)	300 (1320)	90 (396)	10.0 (25.3)	6.7 (16.9)
	KR036★601001	36	0.67 (16.9)	178 (265)	300 (1320)	90 (396)	10.0 (25.3)	6.7 (16.9)
	KR048★601001	48	0.67 (16.9)	187 (278)	300 (1320)	90 (396)	10.0 (25.3)	6.7 (16.9)
	KR060★601001	60	0.76 (19.2)	197 (293)	300 (1320)	90 (396)	11.3 (28.8)	7.6 (19.2)
	KR072★601001	72	0.81 (20.7)	233 (346)	300 (1320)	90 (396)	12.2 (31.0)	8.1 (20.7)

★ Please specify fiber type when ordering (see below)

5 = 50/125 µm multimode GIGA-Link™ 600
 7 = 50/125 µm multimode GIGA-Link™ 2000
 6 = 62.5/125 µm multimode GIGA-Link™ 300
 8 = 62.5/125 µm multimode GIGA-Link™ 1000
 9 = 9/125 µm single-mode
 L = 50/125 µm multimode Laser-Link 300 for 10 Gigabit Ethernet
 K = Single-mode Futureguide SR-15e Bend Insensitive

Contact Customer Service for special fiber types/performance needs.
 Standard jacket color is black. Other colors available by request.

Temperature Specifications

TEMPERATURE RANGE		
OPERATING	INSTALLATION	STORAGE
-40°C to +75°C	-20°C to +75°C	-40°C to +75°C



Indoor/Outdoor Multi-unit Riser Tight Buffered Cable

Specifications

CORE SIZE/ FIBER TYPE	ISO/ IEC	MAXIMUM ATTENUATION (DB/KM)			OVERFILL LAUNCH MIN. BANDWIDTH (MHZ•KM)		EMB _c (MHZ•KM)	GIGABIT ETHERNET MIN. LINK DISTANCE (METERS)		10 GIGABIT ETHERNET MIN. LINK DISTANCE (METERS)	
		850 NM	1300 NM	1550 NM	850 NM	1300 NM		850 NM	1300 NM	850 NM	1300 NM
(6) 62.5 Giga-Link™ 300	OM1	3.5	1.2	N/A	200	600	N/A	300	550	32	—
(8) 62.5 Giga-Link™ 1000	OM1	3.5	1.2	N/A	350	600	N/A	500	1000	65	—
(5) 50 Giga-Link™ 600	OM2	3.5	1.5	N/A	500	500	N/A	600	600	82	—
(7) 50 Giga-Link™ 2000	OM2	3.5	1.2	N/A	500	800	N/A	750	2000	110	—
(A) 50 Laser-Link 150	OM2	3.0	1.2	N/A	700	500	950	800	550	150	—
(L) 50 Laser-Link 300	OM3	3.0	1.2	N/A	1500	500	2000	1000	550	300	—
(C) 50 Laser-Link 550	OM4	3.0	1.2	N/A	3500	550	4700	1040	550	550	—
(K) SM Futureguide SR-15e Bend Insensitive (ITU G.657.A)	OS2	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5000	N/A	10,000
(9) SM	OS2	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5,000	N/A	10,000
(1) 100/140 Multimode		5.5	3.5	N/A	100	100	N/A	N/A	N/A	N/A	N/A

Tested to meet or exceed EIA/TIA 568-B3 / Telcordia GR-409-CORE

Cable Length - Reel Size

ITEM	REEL F	REEL G
Reel Height (inches)	42	60
Reel Outside Width (inches)	36	36
Drum Diameter (inches)	23	30
Reel Weight (lbs)	148	287
CAPACITY: METERS (FEET)		
18 Fibers	2,300 (7,546)	2,500 / (8,200)
24 Fibers	2,300 (7,546)	2,500 / (8,200)
36 Fibers	1,600 (5,250)	2,500 / (8,200)
48 Fibers	1,500 (4,921)	—
60 Fibers	1,250 (4,100)	1,500 / (4,921)
72 Fibers	1,000 (3,280)	1,500 / (4,921)



Indoor/Outdoor Plenum Tight Buffered Cable

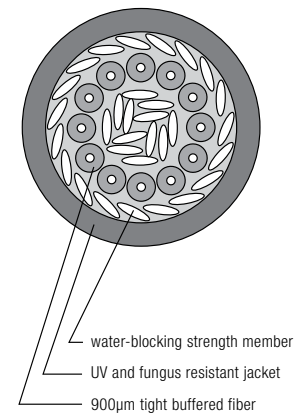
Indoor/Outdoor Tight Buffered cables are specified for campus network cabling between buildings where interbuilding lengths are short enough that the installer can recognize savings from the lower costs of terminating tight buffered cables.

For indoor applications the cable is OFNP listed. For outdoor applications the cable is manufactured with an outer jacket that incorporates a UV stabilizer for protection against exposure to the sun plus an anti-fungus protection for use in underground applications.

Features

- Cables are water blocked and meet water penetration requirements of GR-20-CORE (this helps ensure that any damage to cable is restricted to a repairable length of several meters and minimizes the likelihood of having to replace the entire cable)
- Outer jacket is moisture-resistant, fungus-resistant and UV resistant for outdoor use
- With a plenum rating, this cable can be used in all environments: plenum, riser, general inside plant and outside plant
- Tested to meet or exceed EIA/TIA 568-A / GR-409-CORE
- Compliant to Directive 2002/95/EC (RoHS)

Cable Components



Mechanical Data

CABLE TYPE	AFL NO.	FIBER COUNT	NOMINAL DIAMETER INCHES (MM)	WEIGHT LBS/1000FT (KG/KM)	TENSION LBS (N)		BENDING RADIUS INCHES (CM)	
					INSTALLATION	LONG TERM	INSTALLATION	LONG TERM
	PLENUM							
Indoor/Outdoor Tight Buffered Cable	KP002★481001	2	0.19 (4.8)	18 (27)	100 (440)	30 (132)	3.8 (9.6)	1.9 (4.8)
	KP004★481001	4	0.19 (4.8)	18 (27)	100 (440)	30 (132)	3.8 (9.6)	1.9 (4.8)
	KP006★551001	6	0.22 (5.5)	22 (33)	100 (440)	30 (132)	4.3 (11.0)	2.2 (5.5)
	KP008★601001	8	0.24 (6.0)	26 (38)	100 (440)	30 (132)	4.7 (12.0)	2.4 (6.0)
	KP012★701001	12	0.26 (7.0)	34 (50)	100 (440)	30 (132)	5.5 (14.0)	2.8 (7.0)
	KP018★781001	18	0.28 (7.8)	40 (60)	150 (660)	45 (198)	6.1 (15.6)	3.1 (7.8)
	KP024★851001	24	0.33 (8.5)	54 (80)	150 (660)	45 (198)	6.7 (17.0)	3.4 (8.5)

★ Please specify fiber type when ordering (see below)

5 = 50/125 µm multimode GIGA-Link™ 600

7 = 50/125 µm multimode GIGA-Link™ 2000

6 = 62.5/125 µm multimode GIGA-Link™ 300

8 = 62.5/125 µm multimode GIGA-Link™ 1000

9 = 9/125 µm single-mode

L = 50/125 µm multimode Laser-Link 300 for 10 Gigabit Ethernet

K = Single-mode Futureguide SR-15e Bend Insensitive

Contact Customer Service for special fiber types/performance needs.
Standard jacket color is black. Other colors available by request.

Temperature Specifications

TEMPERATURE RANGE		
OPERATING	INSTALLATION	STORAGE
-20°C to +70°C	0°C to +70°C	-40°C to +75°C

Indoor/Outdoor Plenum Tight Buffered Cable

Specifications

CORE SIZE/ FIBER TYPE	ISO/ IEC	MAXIMUM ATTENUATION (DB/KM)			OVERFILL LAUNCH MIN. BANDWIDTH (MHZ•KM)		EMB _c (MHZ•KM)	GIGABIT ETHERNET MIN. LINK DISTANCE (METERS)		10 GIGABIT ETHERNET MIN. LINK DISTANCE (METERS)	
		850 NM	1300 NM	1550 NM	850 NM	1300 NM		850 NM	1300 NM	850 NM	1300 NM
(6) 62.5 Giga-Link™ 300	OM1	3.5	1.2	N/A	200	600	N/A	300	550	32	—
(8) 62.5 Giga-Link™ 1000	OM1	3.5	1.2	N/A	350	600	N/A	500	1000	65	—
(5) 50 Giga-Link™ 600	OM2	3.5	1.5	N/A	500	500	N/A	600	600	82	—
(7) 50 Giga-Link™ 2000	OM2	3.5	1.2	N/A	500	800	N/A	750	2000	110	—
(A) 50 Laser-Link 150	OM2	3.0	1.2	N/A	700	500	950	800	550	150	—
(L) 50 Laser-Link 300	OM3	3.0	1.2	N/A	1500	500	2000	1000	550	300	—
(C) 50 Laser-Link 550	OM4	3.0	1.2	N/A	3500	550	4700	1040	550	550	—
(K) SM Futureguide SR-15e Bend Insensitive (ITU G.657.A)	OS2	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5000	N/A	10,000
(9) SM	OS2	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5,000	N/A	10,000
(1) 100/140 Multimode		5.5	3.5	N/A	100	100	N/A	N/A	N/A	N/A	N/A

Tested to meet or exceed EIA/TIA 568-B3 / Telcordia GR-409-CORE

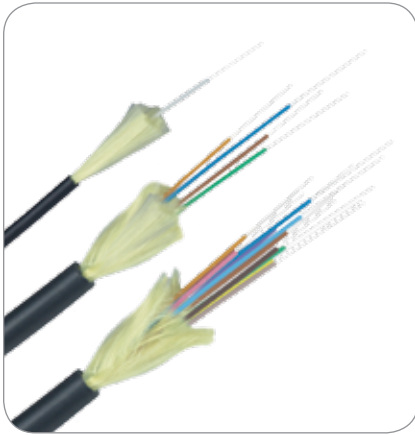
Maximum Cable Length - Reel Size

ITEM	FIBER BOX*	REEL A	REEL B	REEL C	REEL D	REEL E
Reel/Box Height (inches)	15.13	16	24	30	34	34
Reel/Box Outside Width (inches)	13.0	15	17	15.25	21.25	20
Drum Diameter (inches)	8.0	8	12	12	12	24
Reel Weight (lbs)	6.0	10	23	34	44	48
CAPACITY: METERS (FEET)						
2 Fiber	305 (1,000)	1,000 (3,281)	3,200 (10,500)	5,000 (16,404)	—	—
4 Fiber	305 (1,000)	1,000 (3,281)	3,200 (10,500)	5,000 (16,404)	—	—
6 Fiber	305 (1,000)	—	2,400 (7,874)	4,000 (13,123)	5,000 (16,404)	—
8 Fiber	—	—	2,400 (7,874)	4,000 (13,123)	5,000 (16,404)	—
12 Fiber	—	—	1,300 (4,265)	2,100 (6,890)	3,900 (12,795)	—
18 Fiber	—	—	—	—	—	1,500 (4,921)
24 Fiber	—	—	—	—	—	1,500 (4,921)

* Add suffix "—XMFBOX" to cable AFL number to specify "Fiber-In-A-Box" solution. "X" indicates length of cable in thousands of feet. Only available in standard lengths as indicated in chart above.

EXAMPLE: KP0029481001—3MFBOX

Would be the resulting AFL number for 3,000 feet of KP002*481001 cable with 9/125µm single-mode fiber and the Fiber-In-A-Box solution. Refer to Fiber-In-A-Box data at front of catalog.



Broadcast Deployable Tight Buffered Cable

AFL Broadcast Quality Tight Buffered Cables are ideal for use in installations where extreme environmental conditions are present. Designed to be deployed and retrieved in the field, these cables are highly resistant to damage caused by repetitive impact or harsh conditions.

Applications

- Field deployment in abusive environments
- High traffic areas
- Security and sensing applications
- Broadcast deployments
- Installations in harsh environments
- Sporting and media events
- Temporary installation of critical communications lines where quick retrieval and re-use is necessary

Features

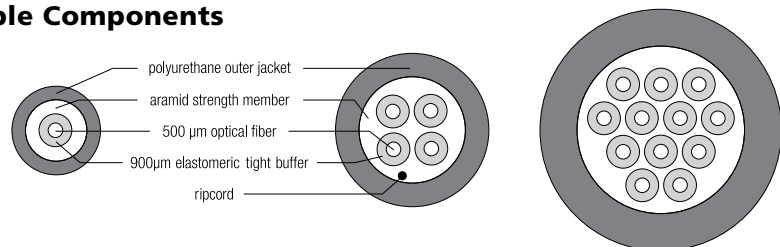
- Cut resistant polyurethane outer jacket
- Highly flexible construction allows for multiple deployments
- All aramid strength members
- Performance in wide temperature range
- High impact and crush resistance
- Durable in high traffic areas
- Water and UV resistant
- Multiple jacket colors available
- MSHA approval pending

Temperature Range

Operating - 46°C to + 85°C

Installation - 20°C to + 85°C

Cable Components



Specifications

CHARACTERISTIC	TEST PROCEDURE	PERFORMANCE
Tensile and elongation	EIA/TIA-455-33	
Operating tensile strength	EIA/TIA-455-33	
Low-temp flexibility	EIA/TIA-455-37	
Cyclic flexing	EIA/TIA-455-104	2000
Crush resistance	EIA/TIA-455-41	2000 N/cm
Impact	EIA/TIA-455-25	200
Temperature cycling	EIA/TIA-455-3	-46°C to 85°C
Temperature/humidity cycling	EIA/TIA-455-5 Method B	
Life aging	EIA/TIA-455-4	
Freezing water immersion	EIA/TIA-455-98	

Ordering Information

AFL NO.	FIBER COUNT	NOMINAL DIAMETER	WEIGHT LBS/1000FT (KG/KM)	TENSION LBS (N)		BENDING RADIUS INCHES (CM)	TEMPERATURE RANGE		
		INCHES (MM)		INSTALLATION	LONG TERM		OPERATING	INSTALLATION	STORAGE
XU001★30180G-SH	1	.12 (2.9)	5.4 (8)	250 (1112)	66 (290)	1.2 (3.0)	-46°C to 85°C	-20°C to 85°C	-57°C to 85°C
XU002★58180G-SH	2	.23 (5.8)	21.5 (32)	325 (1450)	66 (290)	2.3 (5.8)			
XU004★58180G-SH	4	.23 (5.8)	21.5 (32)	325 (1450)	66 (290)	2.3 (5.8)			
XU006★61180G-SH	6	.24 (6.1)	21.5 (33)	325 (1450)	66 (290)	2.4 (6.1)			
XU012★70180G-SH	12	.28 (7.0)	31.7 (47)	394 (1750)	79 (350)	2.8 (7.0)			

Note: Diameter and weight subject to change without notice

Replace asterisk (★) in AFL number with number corresponding below.

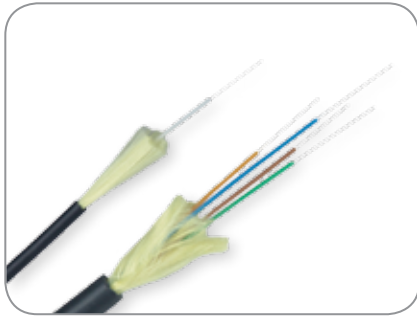
5 = 50/125 µm multimode GIGA-Link™ 600

9 = Single-mode

6 = 62.5/125 µm multimode GIGA-Link™ 300

K = SM Futureguide SR-15e Bend Insensitive

* Other fiber types available.



Features

- Cut resistant, Flame Retardant Polyurethane outer jacket
- Highly flexible construction allows for multiple deployments
- All aramid strength members
- Performance in wide temperature range
- High impact and crush resistance
- Durable in high traffic areas
- MIL-PRF-46291 qualified fiber available (-RH designation)
- Tested to meet or exceed EIA/TIA 568-B3, Telecordia GR-409-CORE, ANSI/ICEA S-83-596, and ANSI/ICEA S-104-696
- Two- and four-fiber cables designed to meet MIL-PRF-85045

Temperature Range

Operating: -56°C to +85°C

Installation: -20°C to +85°C

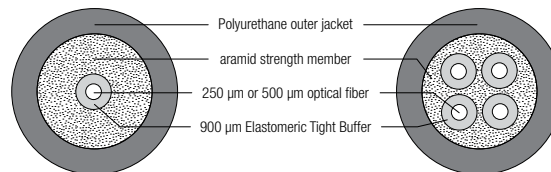
Tactical Tight Buffered Cable

AFL Tactical Tight Buffered Cables are ideal for use in installations where extreme environmental conditions are present. Designed to be deployed and retrieved in the field, AFL's Tactical Tight Buffered Cables are highly resistant to damage caused by repeated impacts or harsh conditions.

Applications

- Field deployment in abusive environments
- Temporary installation of critical communications lines where quick retrieval and re-use is necessary
- High Traffic areas
- Security and Sensing applications
- Broadcast deployments
- Installations in harsh environments

Cable Components



Specifications

CHARACTERISTIC	TEST PROCEDURE	PERFORMANCE
Tensile and elongation	EIA/TIA-455-33	
Operating tensile strength	EIA/TIA-455-33	
Low-temp flexibility	EIA/TIA-455-37	
Cyclic flexing	EIA/TIA-455-104	2000
Crush resistance	EIA/TIA-455-41	2000 N/cm
Impact	EIA/TIA-455-25	200
Temperature cycling	EIA/TIA-455-3	-46°C to 85°C
Temperature/humidity cycling	EIA/TIA-455-5 Method B	
Life aging	EIA/TIA-455-4	
Freezing water immersion	EIA/TIA-455-98	

Ordering Information

AFL NO.	FIBER COUNT	NOMINAL DIA.		NOMINAL WT.		MAXIMUM TENSILE LOAD		MINIMUM BEND RADIUS	
		INCHES	(MM)	LBS/1000FT	(KG/KM)	LBS (N)		INCHES (CM)	
						INSTALLATION	LONG TERM	INSTALLATION	LONG TERM
XU001★30180G	1	0.12	(2.9)	5.4	(8)	250 (1112)	75 (334)	1.5 (3.8)	1.25 (3.2)
XU002★58180G	2	0.23	(5.8)	21.5	(32)	375 (1668)	150 (667)	3.25 (8.3)	2.25 (5.7)
XU004★58180G	4	0.23	(5.8)	21.5	(32)	375 (1668)	150 (667)	3.25 (8.3)	2.25 (5.7)

Note: Diameter and weight subject to change without notice

Replace asterisk (★) in AFL number with number corresponding below.

5 = 50/125 µm multimode GIGA-Link™ 600

6 = 62.5/125 µm multimode GIGA-Link™ 300

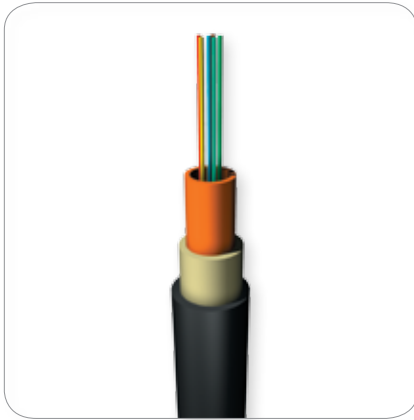
9 = Single-mode

K = SM Futureguide SR-15e Bend Insensitive

Fiber Notes/Options

G = Elastomer over 500 µm

– RH = Indicates Radiation Hardened Fiber



Uniflex® Indoor/Outdoor Loose Tube Cable

Single tube products allow for installations that require a high degree of flexibility combined with a small cable diameter. AFL has designed a cable that has all the characteristics of stranded loose tube cables from a mechanical and environmental standpoint, combined with the high flexibility and small diameter requirements of real world installations. This cable is the ultimate solution for flexible, connectorized applications, as well as crowded ducts in existing fiber applications, and can be lashed to an aerial messenger. Uniflex Indoor/Outdoor cable not only services the outside plant environment, but also qualifies as an Indoor/Outdoor cable, allowing potential cost savings with fewer splice points. Uniflex Indoor/Outdoor complies with EIA/TIA standards and is listed for OFNR use per UL standards.

Product Applications

- OFNR
- Service (Drop) Cables
- Building Interconnections (Campus LAN)
- Connectorized Trunking Cables
- Distance Learning
- Distribution
- MSHA Approved for Mining Applications

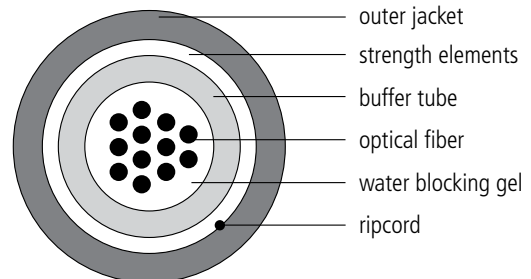
Temperature Range

Operating: -40°C to +70°C

Storage: -40°C to +75°C

Installation: -30°C to +70°C

Cable Components



Maximum Lengths

NOMINAL DIAMETER	REEL A (42 x 36 x 23)		REEL B (58 x 36 x 28)	
	FEET	METERS	FEET	METERS
8.4	16,400	4,995	27,500	8,400

Ordering Information

AFL NO.	FIBER COUNT	NOMINAL DIAMETER		NOMINAL WEIGHT		MAXIMUM TENSILE LOAD		MINIMUM BEND RADIUS	
		INCHES	(MM)	LBS/1000FT	(KG/KM)	LBS (N)		INCHES (CM)	
LV002★21100N1	2	0.33	(8.4)	50	(75)	600 (2670)	200 (890)	6.7 (17.0)	3.5 (9.0)
LV004★41100N1	4								
LV006★61100N1	6								
LV008★81100N1	8								
LV010★A1100N1	10								
LV012★C1100N1	12								

Note: Diameter and weight subject to change without notice

★ Fiber Types – Replace asterisk (★) in AFL number with number corresponding to desired fiber type below.

5 = 50/125 µm multimode GIGA-Link™ 600

7 = 50/125 µm multimode GIGA-Link™ 2000

6 = 62.5/125 µm multimode GIGA-Link™ 300

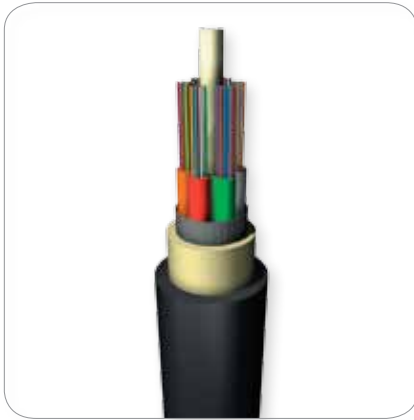
8 = 62.5/125 µm multimode GIGA-Link™ 1000

L = 50/125 µm multimode Laser-Link™ 300

9 = Single-mode

Q = Non-zero dispersion-shifted single-mode

K = SM Futureguide SR-15e Bend Insensitive



Indoor/Outdoor Loose Tube Cable

Indoor/outdoor stranded loose tube combines the robust mechanical and environmental characteristics of an outside plant cable with the flexibility of an inside plant riser cable. By installing indoor/outdoor stranded loose tube, costly splice locations entering into a building are avoided, being routed directly from the outside plant to telecommunications closets, or main distribution frames (MDF) through the riser of a building and eliminating the "50-foot rule." Indoor/Outdoor Stranded Design loose tube cable is moisture and U.V. resistant, S-Z stranded for easy mid-span access, listed for OFNR use per UL standards, and can be used in both duct and lashed applications.

Applications

- Building Interconnections (Campus LAN)
- Trunking Lines Direct to Telecommunications Closet
- Local Loop
- Distance Learning
- Distribution
- Intrabuilding Backbones
- MSHA Approved for Mining Applications

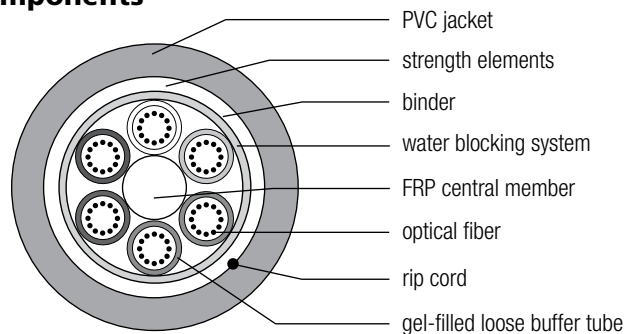
Temperature Range

Operating -40°C to +70°C

Storage -40°C to +75°C

Installation -30°C to +70°C

Cable Components



Typical Lengths

MAXIMUM LENGTHS*				
FIBER COUNT	SINGLE-MODE		MULTIMODE	
	FEET	METERS	FEET	METERS
6 - 144	22,900	7,000	22,900	7,000

* Longer lengths may be available.

Optical Information

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
(8) 62.5/125 GIGA-Link™ 1000	3.5	1.2	N/A	N/A	350	600	500	1000
(5) 50/125 GIGA-Link™ 600	2.9	0.9	N/A	N/A	500	500	600	600
(7) 50/125 GIGA-Link™ 2000	2.9	0.9	N/A	N/A	500	800	750	2000
(L) 50 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
(K) SM Futureguide SR-15e Bend Insensitive (ITU G.657.A)	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.

Indoor/Outdoor Loose Tube Cable

Ordering Information

AFL NO.	FIBER COUNT	NUMBER OF TUBES/FIBERS	NOMINAL DIAMETER	NOMINAL WEIGHT	MAXIMUM TENSILE LOAD		MINIMUM BEND RADIUS	
			INCHES (MM)	LBS/1,000 FT (KG/KM)	LBS. (N)		INCHES (CM)	
					SHORT TERM	LONG TERM	SHORT TERM	LONG TERM
LV006★C5101N1	6	1w/6 (4 fillers)	0.51 (12.9)	107 (159)	600 (2700)	200 (890)	10.2 (26)	5.1 (13)
LV012★C5101N1	12	1w/12 (4 fillers)	0.51 (12.9)	108 (160)	600 (2700)	200 (890)	10.2 (26)	5.1 (13)
LV018★C5101N1	18	1w/12, 1w/6 (3 fillers)	0.51 (12.9)	108 (161)	600 (2700)	200 (890)	10.2 (26)	5.1 (13)
LV024★C5101N1	24	2w/12 (3 fillers)	0.51 (12.9)	108 (161)	600 (2700)	200 (890)	10.2 (26)	5.1 (13)
LV030★C5101N1	30	2w/12, 1w/6 (2 fillers)	0.51 (12.9)	109 (162)	600 (2700)	200 (890)	10.2 (26)	5.1 (13)
LV036★C5101N1	36	3w/12 (2 fillers)	0.51 (12.9)	109 (162)	600 (2700)	200 (890)	10.2 (26)	5.1 (13)
LV048★C5101N1	48	4w/12 (1 filler)	0.51 (12.9)	110 (164)	600 (2700)	200 (890)	10.2 (26)	5.1 (13)
LV060★C5101N1	60	5w/12 (No fillers)	0.51 (12.9)	111 (165)	600 (2700)	200 (890)	10.2 (26)	5.1 (13)
LV072★C6101N1	72	6w/12 (No fillers)	0.54 (13.7)	128 (190)	600 (2700)	200 (890)	10.8 (28)	5.4 (14)
LV084★C8101N1	84	7w/12 (1 filler)	0.61 (15.5)	158 (236)	600 (2700)	200 (890)	12.2 (31)	6.1 (16)
LV096★C8101N1	96	8w/12 (No fillers)	0.61 (15.5)	159 (237)	600 (2700)	200 (890)	12.2 (31)	6.1 (16)
LV108★CA101N1	108	9w/12 (1 filler)	0.69 (17.4)	197 (294)	600 (2700)	200 (890)	14.0 (35)	7.0 (18)
LV120★CA101N1	120	10w/12 (No fillers)	0.69 (17.4)	198 (295)	600 (2700)	200 (890)	14.0 (35)	7.0 (18)
LV132★CC101N1	132	11w/12 (1 filler)	0.76 (19.3)	242 (360)	600 (2700)	200 (890)	15.2 (39)	7.6 (20)
LV144★CC101N1	144	12w/12 (No fillers)	0.76 (19.3)	243 (361)	600 (2700)	200 (890)	15.2 (39)	7.6 (20)

Note: Diameter and weight subject to change without notice

★ Fiber Types – Replace asterisk (★) in AFL number with number corresponding to desired fiber type below.

5 = 50/125 µm multimode GIGA-Link™ 600

7 = 50/125 µm multimode GIGA-Link™ 2000

6 = 62.5/125 µm multimode GIGA-Link™ 300

8 = 62.5/125 µm multimode GIGA-Link™ 1000

L = 50/125 µm multimode Laser-Link™ 300

9 = Single-mode

K = SM Futureguide SR-15e Bend Insensitive

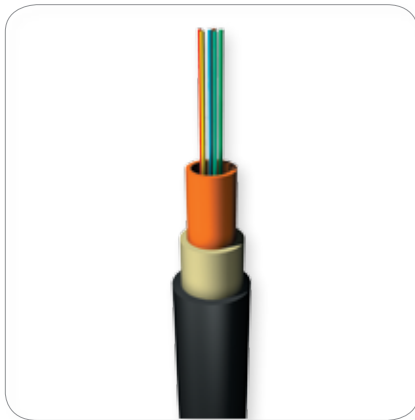
Q = Non-zero dispersion-shifted single-mode

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.

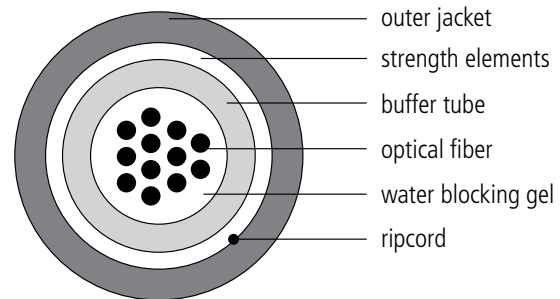
Larger reel sizes may be required to accommodate long cable lengths.



Uniflex® Non-Armored Loose Tube Cable

AFL's non-armored Uniflex® is a central loose tube cable used for duct and low fiber drop applications.

Cable Components



Temperature Range

Operating: -40°C to +70°C

Storage: -40°C to +75°C

Installation: -30°C to +70°C

Product Applications

- Service (Drop) Cables
- Building Interconnections (Campus LAN)
- Connectorized Trunking Cables
- Distance Learning
- Distribution

Maximum Lengths

NOMINAL DIAMETER	REEL A (42 x 32 x 23)		REEL B (58 x 32 x 28)	
	MM	FEET	FEET	METERS
7.8		19,000	27,500	8,400

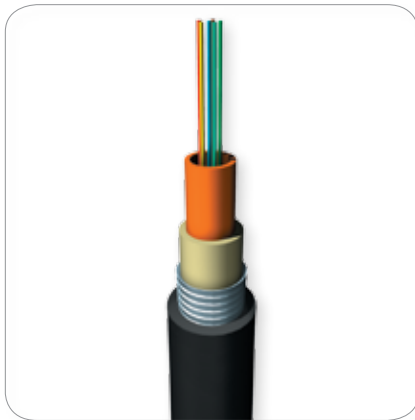
Ordering Information

AFL NO.	FIBER COUNT	NOMINAL DIAMETER INCHES (MM)	NOMINAL WEIGHT LBS/1,000FT (KG/KM)	MAXIMUM TENSILE LOAD		MINIMUM BEND RADIUS	
				LBS (N)		INCHES (CM)	
				SHORT TERM	LONG TERM	SHORT TERM	LONG TERM
LE002★21100N1	2	0.31 (7.8)	34 (50)	600 (2670)	200 (890)	6.3 (16.0)	3.1 (8.0)
LE004★41100N1	4						
LE006★61100N1	6						
LE008★81100N1	8						
LE010★A1100N1	10						
LE012★C1100N1	12						

Note: Diameter and weight subject to change without notice

★ Fiber Types – Replace asterisk (★) in AFL number with number corresponding to desired fiber type below.

5 = 50/125 µm multimode GIGA-Link™ 600
 7 = 50/125 µm multimode GIGA-Link™ 2000
 6 = 62.5/125 µm multimode GIGA-Link™ 300
 8 = 62.5/125 µm multimode GIGA-Link™ 1000
 L = 50/125 µm multimode Laser-Link™ 300
 9 = Single-mode
 Q = Non-zero dispersion-shifted single-mode
 K = SM Futureguide SR-15e Bend Insensitive



Uniflex® Armored Loose Tube Cable

AFL's Armored Uniflex cable is a central loose tube product used in various outside plant applications. Its compact design holds up to 12 fibers. The corrugated steel armor provides additional mechanical protection and also serves as toneable element within the cable.

Product Applications

- Service (Drop) Cables
- Building Interconnections (Campus LAN)
- Connectorized Trunking Cables
- Distance Learning
- Distribution

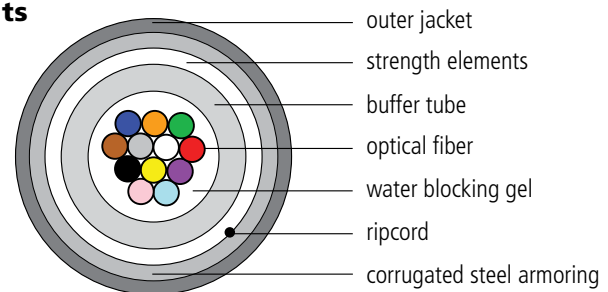
Temperature Range

Operating: -40°C to +70°C

Storage: -40°C to +75°C

Installation: -30°C to +70°C

Cable Components



Maximum Lengths

NOMINAL DIAMETER	REEL A (42 x 32 x 23)		REEL B (58 x 32 x 28)		REEL C (66 x 36 x 36)	
MM	FEET	METERS	FEET	METERS	FEET	METERS
12.2	7,700	2,345	18,250	5,560	24,400	7,435

* Maximum length of 27,500 feet available on larger reels.

Ordering Information

AFL NO.	FIBER COUNT	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
LE002★21200S1	2	0.48 (12.2)	95 (140)	600 (2670)	200 (890)	9.6 (25.0)	4.8 (13.0)
LE004★41200S1	4						
LE006★61200S1	6						
LE008★81200S1	8						
LE010★A1200S1	10						
LE012★C1200S1	12						

Note: Diameter and weight subject to change without notice

★ Fiber Types – Replace asterisk (★) in AFL number with number corresponding to desired fiber type below.

5 = 50/125 µm multimode GIGA-Link™ 600

7 = 50/125 µm multimode GIGA-Link™ 2000

6 = 62.5/125 µm multimode GIGA-Link™ 300

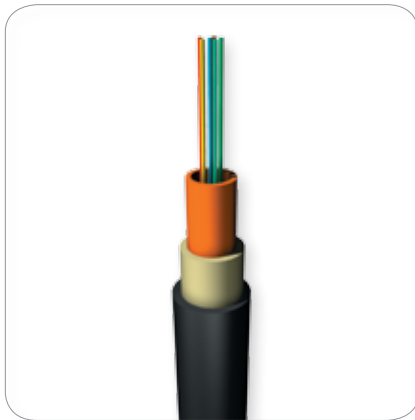
8 = 62.5/125 µm multimode GIGA-Link™ 1000

L = 50/125 µm multimode Laser-Link™ 300

9 = Single-mode

Q = Non-zero dispersion-shifted single-mode

K = SM Futureguide SR-15e Bend Insensitive



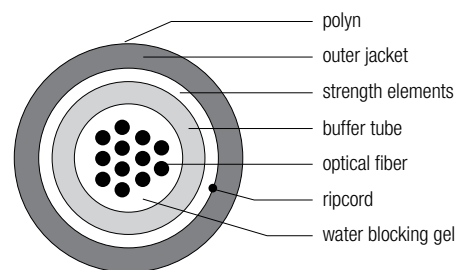
Heavy Duty Uniflex® Loose Tube Cable

AFL's Heavy Duty Uniflex loose tube cable features a central tube design and thicker-walled jacket. Often used in connectorized cable assemblies, it holds up to 12 fibers.

Product Applications

- Service (Drop) Cables
- Building Interconnections (Campus LAN)
- Connectorized Trunking Cables
- Distance Learning
- Distribution

Cable Components



Temperature Range

Operating: -40°C to +70°C

Storage: -40°C to +75°C

Installation: -30°C to +70°C

Ordering Information

AFL NO.	FIBER COUNT	NOMINAL DIAMETER INCHES (MM)	NOMINAL WEIGHT LBS/1,000FT (KG/KM)	MAXIMUM TENSILE LOAD		MINIMUM BEND RADIUS	
				LBS. (N)		INCHES (CM)	
				SHORT TERM	LONG TERM	SHORT TERM	LONG TERM
LU002★21200N1	2	0.366 (9.3)	40 (65)	600 (2670)	200 (890)	7.5 (19.0)	3.7 (9.5)
LU004★41200N1	4						
LU006★61200N1	6						
LU008★81200N1	8						
LU010★A1200N1	10						
LU012★C1200N1	12						

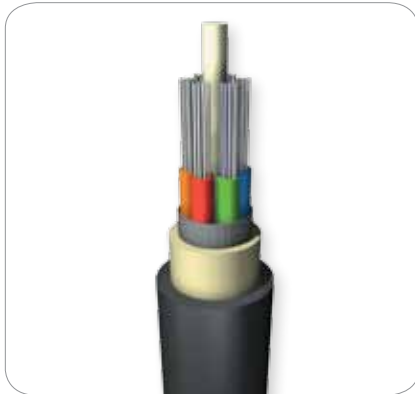
Note: Diameter and weight subject to change without notice

★ Fiber Types – Replace asterisk (★) in AFL number with number corresponding to desired fiber type below.

5 = 50/125 µm multimode GIGA-Link™ 600
 6 = 62.5/125 µm multimode GIGA-Link™ 300
 7 = 50/125 µm multimode GIGA-Link™ 2000
 8 = 62.5/125 µm multimode GIGA-Link™ 1000
 L = 50/125 µm multimode Laser-Link™ 300
 9 = Single-mode
 Q = Non-zero dispersion-shifted single-mode
 K = SM Futureguide SR-15e Bend Insensitive

Maximum Lengths

NOMINAL DIAMETER	REEL A (42 x 36 x 23)		REEL B (58 x 36 x 28)	
	MM	FEET	FEET	METERS
7.8		19,000	5,790	27,500
9.3		13,300	4,050	27,500



Non-Armored Loose Tube Cable – Single Jacket

Acting as the backbone for most of today's fiber based systems, stranded fiber optic cables play a critical role in the high speed network. AFL's Non-Armored Loose Tube fiber optic cables are designed to provide high fiber counts with the flexibility and versatility required for today's most demanding installations. With fiber counts up to 576 and S-Z strand designs for easy mid-span access, AFL's cables comply with EIA/TIA, REA/RUS PE-90 and GR-20. Industry standard designs combined with innovative technologies, such as a dry core product, yield a world class cable that will support today's and tomorrow's technological needs.

Product Applications

- Long Haul Networking
- Building Interconnections (Campus LAN)
- Trunking Lines Direct to Telecommunications Closet
- Local Loop
- Distance Learning
- Distribution
- Intrabuilding Backbones

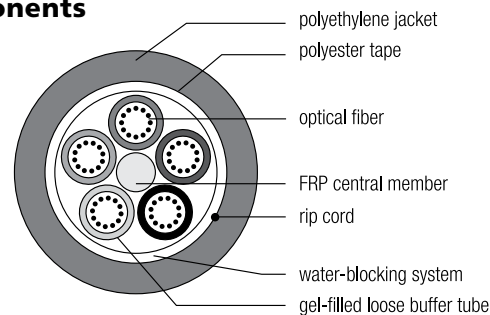
Temperature Range

Operating: -40°C to +70°C

Storage: -40°C to +75°C

Installation: -30°C to +70°C

Cable Components



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
146 - 216	22,900	7,000	22,900	7,000
218 - 288	16,400	5,000	16,400	5,000
290 - 432	14,100	4,300	14,000	4,300
434 - 576	10,800	3,300	11,000	3,300

* Longer lengths may be available upon request.

Optical Information

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
(8) 62.5/125 GIGA-Link™ 1000	3.5	1.2	N/A	N/A	350	600	500	1000
(5) 50/125 GIGA-Link™ 600	2.9	0.9	N/A	N/A	500	500	600	600
(7) 50/125 GIGA-Link™ 2000	2.9	0.9	N/A	N/A	500	800	750	2000
(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) SM Futureguide SR-15e Bend Insensitive	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.

Non-Armored Loose Tube Cable – Single Jacket

Ordering Information

AFL NO.	FIBER COUNT	NUMBER OF TUBES/FIBERS	NOMINAL DIAMETER		NOMINAL WEIGHT		MAXIMUM TENSILE LOAD		MINIMUM BEND RADIUS	
			INCHES	MM	LBS/1,000FT	KG/KM	LBS (N)		INCHES (CM)	
							SHORT TERM	LONG TERM	SHORT TERM	LONG TERM
LE006★C5101N1	6	1w/6 (4 fillers)	0.41	10.5	56	83	600 (2670)	200 (890)	8.2 (21)	4.1 (11)
LE012★C5101N1	12	1w/12 (4 fillers)	0.41	10.5	56	84	600 (2670)	200 (890)	8.2 (21)	4.1 (11)
LE018★C5101N1	18	1w/12, 1w/6 (3 fillers)	0.41	10.5	57	85	600 (2670)	200 (890)	8.2 (21)	4.1 (11)
LE024★C5101N1	24	2w/12 (3 fillers)	0.41	10.5	57	85	600 (2670)	200 (890)	8.2 (21)	4.1 (11)
LE030★C5101N1	30	2w/12, 1w/6 (2 fillers)	0.41	10.5	58	86	600 (2670)	200 (890)	8.2 (21)	4.1 (11)
LE036★C5101N1	36	3w/12 (2 fillers)	0.41	10.5	58	86	600 (2670)	200 (890)	8.2 (21)	4.1 (11)
LE048★C5101N1	48	4w/12 (1 filler)	0.41	10.5	59	87	600 (2670)	200 (890)	8.2 (21)	4.1 (11)
LE060★C5101N1	60	5w/12 (no fillers)	0.41	10.5	60	89	600 (2670)	200 (890)	8.2 (21)	4.1 (11)
LE072★C6101N1	72	6w/12 (no fillers)	0.45	11.5	71	106	600 (2670)	200 (890)	9.0 (22)	4.5 (11.5)
LE084★C8101N1	84	7w/12 (1 filler)	0.52	13.3	90	135	600 (2670)	200 (890)	10.4 (27)	5.2 (14)
LE096★C8101N1	96	8w/12 (no fillers)	0.52	13.3	91	136	600 (2670)	200 (890)	10.4 (27)	5.2 (14)
LE108★CA101N1	108	9w/12 (1 filler)	0.59	15.1	117	174	600 (2670)	200 (890)	11.8 (31)	5.9 (16)
LE120★CA101N1	120	10w/12 (no fillers)	0.59	15.1	118	175	600 (2670)	200 (890)	11.8 (31)	5.9 (16)
LE132★CC101N1	132	11w/12 (1 filler)	0.67	17.0	147	219	600 (2670)	200 (890)	13.4 (34)	6.7 (17)
LE144★CC101N1	144	12w/12 (no fillers)	0.67	17.0	148	220	600 (2670)	200 (890)	13.4 (34)	6.7 (17)
LE216★CI301N1	216	18w/12 (no fillers)	0.69	17.4	150	224	600 (2670)	200 (890)	14.0 (35)	6.9 (18)
LE288★CO301N1	288	24w/12 (no fillers)	0.79	20.1	202	301	600 (2670)	200 (890)	17.3 (41)	7.9 (21)
LE432★IO301N1	432	24w/18 (no fillers)	0.87	22.0	242	360	600 (2670)	200 (890)	17.4 (44)	8.7 (22)
LE576★OO301N1	576	24w/24 (no fillers)	1.00	25.3	319	475	600 (2670)	200 (890)	20.1 (51)	10.2 (26)

Note: Diameter and weight subject to change without notice

★ Fiber Types – Replace asterisk (★) in AFL number with number corresponding to desired fiber type below.

5 = 50/125 µm multimode GIGA-Link™ 600

7 = 50/125µm multimode GIGA-Link™ 2000

6 = 62.5/125 µm multimode GIGA-Link™ 300

8 = 62.5/125 µm multimode GIGA-Link™ 1000

9 = Single-mode

L = 50/125 µm multimode Laser-Link™ 300

K = SM Futureguide SR-15e Bend Insensitive

Q = Non-zero dispersion-shifted single-mode

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 accommodate long cable lengths.



Non-Armored Loose Tube Cable – Double Jacket

Acting as the backbone for most of today's fiber based systems, stranded fiber optic cables play a critical role in the high speed network. AFL's Non-Armored Double Jacket Loose Tube fiber optic cables are designed to provide high fiber counts with the flexibility and versatility required for today's most demanding installations while incorporating a second jacket when extra mechanical protection is desired. With fiber counts up to 576 and S-Z strand designs for easy mid-span access, AFL's cables comply with EIA/TIA, REA/ RUS PE-90 and GR-20. Industry standard designs combined with innovative technologies, such as a dry core product, yield a world class cable that will support today's and tomorrow's technological needs.

Product Applications

- Long Haul Networking
- Building Interconnections (Campus LAN)
- Trunking Lines Direct to Telecommunications Closet
- Local Loop
- Distance Learning
- Distribution
- Intrabuilding Backbones

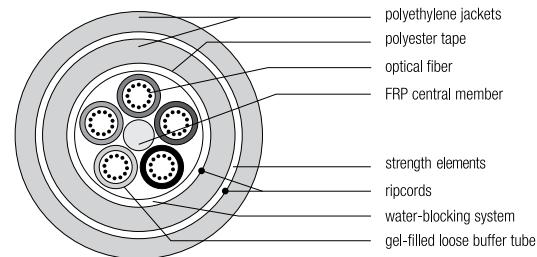
Temperature Range

Operating: -40°C to +70°C

Storage: -40°C to +75°C

Installation: -30°C to +70°C

Cable Components



Typical Lengths

MAXIMUM LENGTHS*				
FIBER COUNT	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
146 - 216	17,000	5,200	17,000	5,200
218 - 288	15,000	4,600	15,000	4,600
290 - 432	10,800	3,300	10,800	3,300
434 - 576	6,500	2,000	6,500	2,000

* Longer lengths may be available upon request.

Optical Information

FIBER TYPE	MAXIMUM ATTENUATION (DB/KM)				OVERFILL LAUNCH MIN. BANDWIDTH (MHZ•KM)		GIGABIT ETHERNET MINIMUM 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
(8) 62.5/125 GIGA-Link™ 1000	3.5	1.2	N/A	N/A	350	600	500	1000
(5) 50/125 GIGA-Link™ 600	2.9	0.9	N/A	N/A	500	500	600	600
(7) 50/125 GIGA-Link™ 2000	2.9	0.9	N/A	N/A	500	800	750	2000
(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
(K) SM Futurguide SR-15e Bend Insensitive	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.

Non-Armored Loose Tube Cable – Double Jacket

Ordering Information

AFL NO.	FIBER COUNT	NUMBER OF TUBES/FIBERS	NOMINAL DIAMETER		NOMINAL WEIGHT		MAXIMUM TENSILE LOAD		MINIMUM BEND RADIUS	
			INCHES	MM	LBS/1,000FT	KG/KM	LBS (N)		INCHES (CM)	
							SHORT TERM	LONG TERM	SHORT TERM	LONG TERM
LE006★C5111N1	6	1w/6 (4 fillers)	0.49	12.5	79	118	600 (2670)	200 (890)	9.8 (25)	4.9 (13)
LE012★C5111N1	12	1w/12 (4 fillers)	0.49	12.5	80	119	600 (2670)	200 (890)	9.8 (25)	4.9 (13)
LE018★C5111N1	18	1w/12, 1w/6 (3 fillers)	0.49	12.5	81	120	600 (2670)	200 (890)	9.8 (25)	4.9 (13)
LE024★C5111N1	24	2w/12 (3 fillers)	0.49	12.5	81	120	600 (2670)	200 (890)	9.8 (25)	4.9 (13)
LE030★C5111N1	30	2w/12, 1w/6 (2 fillers)	0.49	12.5	82	121	600 (2670)	200 (890)	9.8 (25)	4.9 (13)
LE036★C5111N1	36	3w/12 (2 fillers)	0.49	12.5	82	121	600 (2670)	200 (890)	9.8 (25)	4.9 (13)
LE048★C5111N1	48	4w/12 (1 filler)	0.49	12.5	83	123	600 (2670)	200 (890)	9.8 (25)	4.9 (13)
LE060★C5111N1	60	5w/12 (no fillers)	0.49	12.5	84	125	600 (2670)	200 (890)	9.8 (25)	4.9 (13)
LE072★C6111N1	72	6w/12 (no fillers)	0.53	13.4	97	144	600 (2670)	200 (890)	10.6 (27)	5.3 (14)
LE084★C8111N1	84	7w/12 (1 filler)	0.60	15.2	120	178	600 (2670)	200 (890)	12.0 (31)	6.0 (16)
LE096★C8111N1	96	8w/12 (no fillers)	0.60	15.2	121	180	600 (2670)	200 (890)	12.0 (31)	6.0 (16)
LE108★CA111N1	108	9w/12 (1 filler)	0.67	17.1	150	222	600 (2670)	200 (890)	13.4 (34)	6.7 (17)
LE120★CA111N1	120	10w/12 (no fillers)	0.67	17.1	151	224	600 (2670)	200 (890)	13.4 (34)	6.7 (17)
LE132★CC111N1	132	11w/12 (1 filler)	0.75	19.0	184	273	600 (2670)	200 (890)	15.0 (38)	7.5 (19)
LE144★CC111N1	144	12w/12 (no fillers)	0.75	19.0	185	275	600 (2670)	200 (890)	15.0 (38)	7.5 (19)
LE216★CI311N1	216	18w/12 (no fillers)	0.76	19.3	188	280	600 (2670)	200 (890)	15.2 (39)	7.6 (20)
LE288★CO311N1	288	24w/12 (no fillers)	0.87	22.0	245	365	600 (2670)	200 (890)	17.4 (44)	8.7 (22)
LE432★IO311N1	432	24w/18 (no fillers)	0.94	23.9	289	430	600 (2670)	200 (890)	18.8 (48)	9.4 (24)
LE576★OO311N1	576	24w/24 (no fillers)	1.08	27.3	372	554	600 (2670)	200 (890)	21.4 (55)	10.7 (28)

Note: Diameter and weight subject to change without notice

★ Fiber Types – Replace asterisk (★) in AFL number with number corresponding to desired fiber type below.

5 = 50/125 µm multimode GIGA-Link™ 600

7 = 50/125 µm multimode GIGA-Link™ 2000

6 = 62.5/125 µm multimode GIGA-Link™ 300

8 = 62.5/125 µm multimode GIGA-Link™ 1000

L = 50/125 µm multimode Laser-Link™ 300

9 = Single-mode

K = SM Futureguide SR-15e Bend Insensitive

Q = Non-zero dispersion-shifted single-mode

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 accommodate long cable lengths.



Armored Loose Tube Cable – Single Jacket/Single Armor

Acting as the backbone for most of today's fiber based systems, stranded fiber optic cables play a critical role in the high speed network. AFL's Armored Loose Tube Single Jacket/Single Armor fiber optic cables are designed to provide high fiber counts with the flexibility and versatility required for today's most demanding installations, including direct buried. With fiber counts up to 144 and S-Z strand designs for easy mid-span access, AFL's cables comply with EIA/TIA, REA/RUS PE-90 and GR-20. Industry standard designs combined with innovative technologies, such as a dry core product, yield a world class cable that will support today's and tomorrow's technological needs.

Product Applications

- Long Haul Networking
- Building Interconnections (Campus LAN)
- Trunking Lines Direct to Telecommunications Closet
- Local Loop
- Distance Learning
- Distribution
- Intrabuilding Backbones

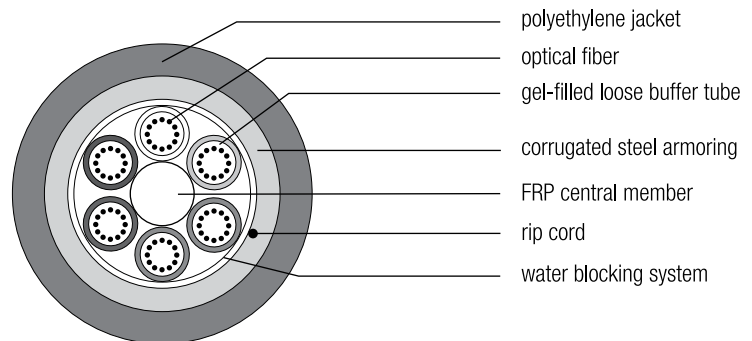
Temperature Range

Operating: -40°C to +70°C

Storage: -40°C to +75°C

Installation: -30°C to +70°C

Cable Components



Typical Lengths

MAXIMUM LENGTHS*				
FIBER COUNT	SINGLE-MODE		MULTIMODE	
	FEET	METERS	FEET	METERS
6 - 144	19,686	6,000	19,686	6,000

* Longer lengths may be available upon request.

Optical Information

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
(8) 62.5/125 GIGA-Link™ 1000	3.5	1.2	N/A	N/A	350	600	500	1000
(5) 50/125 GIGA-Link™ 600	2.9	0.9	N/A	N/A	500	500	600	600
(7) 50/125 GIGA-Link™ 2000	2.9	0.9	N/A	N/A	500	800	750	2000
(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
(K) SM Futureguide SR-15e Bend Insensitive	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.

Armored Loose Tube Cable – Single Jacket/Single Armor

Ordering Information

AFL NO.	FIBER COUNT	NUMBER OF TUBES/FIBERS	NOMINAL DIAMETER		NOMINAL WEIGHT		MAXIMUM TENSILE LOAD LBS (N)		MINIMUM BEND RADIUS INCHES (CM)	
			INCHES	MM	LBS/1,000FT	KG/KM	SHORT TERM	LONG TERM	SHORT TERM	LONG TERM
LE006★C5201S1	6	1w/6 (4 fillers)	0.52	13.3	102	152	600 (2670)	200 (890)	10.7 (28)	5.4 (14)
LE012★C5201S1	12	1w/12 (4 fillers)	0.52	13.3	102	152	600 (2670)	200 (890)	10.7 (28)	5.4 (14)
LE018★C5201S1	18	1w/12, 1w/6 (3 fillers)	0.52	13.3	103	153	600 (2670)	200 (890)	10.7 (28)	5.4 (14)
LE024★C5201S1	24	2w/12 (3 fillers)	0.52	13.3	103	154	600 (2670)	200 (890)	10.7 (28)	5.4 (14)
LE030★C5201S1	30	2w/12, 1w/6 (2 fillers)	0.52	13.3	104	155	600 (2670)	200 (890)	10.7 (28)	5.4 (14)
LE036★C5201S1	36	3w/12 (2 fillers)	0.52	13.3	104	155	600 (2670)	200 (890)	10.7 (28)	5.4 (14)
LE048★C5201S1	48	4w/12 (1 filler)	0.52	13.3	105	157	600 (2670)	200 (890)	10.7 (28)	5.4 (14)
LE060★C5201S1	60	5w/12 (no fillers)	0.52	13.3	106	158	600 (2670)	200 (890)	10.7 (28)	5.4 (14)
LE072★C6201S1	72	6w/12 (no fillers)	0.56	14.2	120	179	600 (2670)	200 (890)	11.4 (29)	5.7 (15)
LE084★C8201S1	84	7w/12 (1 filler)	0.63	16.0	146	218	600 (2670)	200 (890)	12.8 (33)	6.4 (16.3)
LE096★C8201S1	96	8w/12 (no fillers)	0.63	16.0	147	219	600 (2670)	200 (890)	12.8 (33)	6.4 (16.3)
LE108★CA201S1	108	9w/12 (1 filler)	0.70	17.8	176	262	600 (2670)	200 (890)	14.2 (37)	7.1 (18)
LE120★CA201S1	120	10w/12 (no fillers)	0.70	17.8	177	264	600 (2670)	200 (890)	14.2 (37)	7.1 (18)
LE132★CC201S1	132	11w/12 (1 filler)	0.78	19.7	213	317	600 (2670)	200 (890)	15.7 (40)	7.9 (20)
LE144★CC201S1	144	12w/12 (no fillers)	0.78	19.7	214	319	600 (2670)	200 (890)	15.7 (40)	7.9 (20)

Note: Diameter and weight subject to change without notice

★ Fiber Types – Replace asterisk (★) in AFL number with number corresponding to desired fiber type below.

5 = 50/125 µm multimode GIGA-Link™ 600

7 = 50/125 µm multimode GIGA-Link™ 2000

6 = 62.5/125 µm multimode GIGA-Link™ 300

8 = 62.5/125 µm multimode GIGA-Link™ 1000

L = 50/125 µm multimode Laser-Link™ 300

9 = Single-mode

Q = Non-zero dispersion-shifted single-mode

K = SM Futureguide SR-15e Bend Insensitive

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 accommodate long cable lengths.



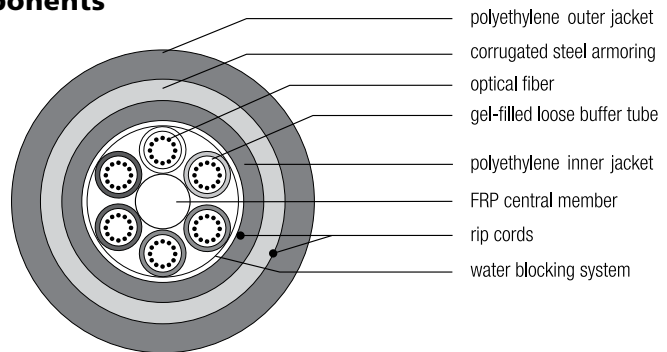
Armored Loose Tube Cable – Double Jacket/Single Armor

Acting as the backbone for most of today's fiber based systems, stranded fiber optic cables play a critical role in the high speed network. AFL's Armored Loose Tube Double Jacket/Single Armor fiber optic cables are designed to provide high fiber counts with the flexibility and versatility required for today's most demanding installations, including direct buried. With fiber counts up to 312 and S-Z strand designs for easy mid-span access, AFL' cables comply with EIA/TIA, REA/RUS PE-90 and GR-20. Industry standard designs combined with innovative technologies, such as a dry core product, yield a world class cable that will support today's and tomorrow's technological needs.

Product Applications

- Long Haul Networking
- Building Interconnections (Campus LAN)
- Trunking Lines Direct to Telecommunications Closet
- Local Loop
- Distance Learning
- Distribution
- Intrabuilding Backbones

Cable Components



Temperature Range

Operating: -40°C to +70°C

Storage: -40°C to +75°C

Installation: -30°C to +70°C

Typical Lengths

MAXIMUM LENGTHS*				
FIBER COUNT	SINGLE-MODE		MULTIMODE	
	FEET	METERS	FEET	METERS
6 - 72	20,000	6,000	20,000	6,000
84 - 96	14,700	4,500	14,700	4,500
108 - 120	13,000	4,000	13,000	4,000
132 - 144	11,100	3,400	11,100	3,400
146 - 312	10,000	3,000	10,000	3,000

* Longer lengths may be available upon request.

Optical Information

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
(8) 62.5/125 GIGA-Link™ 1000	3.5	1.2	N/A	N/A	350	600	500	1000
(5) 50/125 GIGA-Link™ 600	3.5	1.2	N/A	N/A	500	500	600	600
(7) 50/125 GIGA-Link™ 2000	3.5	1.2	N/A	N/A	500	800	750	2000
(L) 50 Laser-Link 300	3.5	1.2	N/A	N/A	1500	500	900	550
(9) Single-mode	N/A	0.4	0.4	0.3	N/A	N/A	N/A	N/A
(K) SM Futureguide SR-15e Bend Insensitive	N/A	0.5	0.5	N/A	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.

Armored Loose Tube Cable – Double Jacket/Single Armor

Ordering Information

AFL NO.	FIBER COUNT	NUMBER OF TUBES/FIBERS	NOMINAL DIAMETER		NOMINAL WEIGHT		MAXIMUM TENSILE LOAD		MINIMUM BEND RADIUS	
			INCHES	MM	LBS/1,000FT	KG/KM	LBS (N)		INCHES (CM)	
							SHORT TERM	LONG TERM	SHORT TERM	LONG TERM
LE006★C5111S1	6	1w/6 (4 fillers)	0.59	15.0	128	190	600 (2670)	180 (800)	12.4 (32.0)	5.9 (15.0)
LE012★C5111S1	12	1w/12 (4 fillers)	0.59	15.0	128	190	600 (2670)	180 (800)	12.4 (32.0)	5.9 (15.0)
LE018★C5111S1	18	1w/12, 1w/6 (3 fillers)	0.59	15.0	128	190	600 (2670)	180 (800)	12.4 (32.0)	5.9 (15.0)
LE024★C5111S1	24	2w/12 (3 fillers)	0.59	15.0	128	190	600 (2670)	180 (800)	12.4 (32.0)	5.9 (15.0)
LE030★C5111S1	30	2w/12, 1w/6 (2 fillers)	0.59	15.0	128	190	600 (2670)	180 (800)	12.4 (32.0)	5.9 (15.0)
LE036★C5111S1	36	3w/12 (2 fillers)	0.59	15.0	128	190	600 (2670)	180 (800)	12.4 (32.0)	5.9 (15.0)
LE048★C5111S1	48	4w/12 (1 filler)	0.59	15.0	128	190	600 (2670)	180 (800)	12.4 (32.0)	5.9 (15.0)
LE060★C5111S1	60	5w/12 (no fillers)	0.62	15.0	128	190	600 (2670)	180 (800)	12.4 (32.0)	5.9 (15.0)
LE072★C6111S1	72	6w/12 (no fillers)	0.62	15.9	143	212	600 (2670)	180 (800)	13.0 (33.0)	6.5 (16.4)
LE084★C8111S1	84	7w/12 (1 filler)	0.69	17.6	169	252	600 (2670)	180 (800)	14.4 (36.4)	7.2 (18.2)
LE096★C8111S1	96	8w/12 (no fillers)	0.69	17.6	169	252	600 (2670)	180 (800)	14.4 (36.4)	7.2 (18.2)
LE108★CA111S1	108	9w/12 (1 filler)	0.76	19.3	201	299	600 (2670)	180 (800)	15.8 (40.2)	7.9 (20.1)
LE120★CA111S1	120	10w/12 (no fillers)	0.76	19.3	201	299	600 (2670)	180 (800)	15.8 (40.2)	7.9 (20.1)
LE132★CC111S1	132	11w/12 (1 filler)	0.83	21.2	234	348	600 (2670)	180 (800)	18.0 (46.0)	9.0 (22.9)
LE144★CC111S1	144	12w/12 (no fillers)	0.83	21.2	234	348	600 (2670)	180 (800)	18.0 (46.0)	9.0 (22.9)
LE216★CI311S1	216	18w/12 (no fillers)	0.76	19.4	189	281	600 (2670)	180 (800)	15.0 (40.0)	7.6 (19.4)
LE264★CM311S1	264	22w/12 (no fillers)	0.81	20.7	212	315	600 (2670)	180 (800)	16.0 (41.0)	8.0 (21.0)
LE288★CP311S1	288	24w/12 (no fillers)	0.85	21.7	236	351	600 (2670)	180 (800)	17.0 (44.0)	8.5 (22.0)
LE312★CR311S1	312	26w/12 (no fillers)	0.91	23.0	258	384	600 (2670)	180 (800)	18.0 (46.0)	9.0 (22.9)

Note: Diameter and weight subject to change without notice

★ Fiber Types – Replace asterisk (★) in AFL number with number corresponding to desired fiber type below.

5 = 50/125 µm multimode GIGA-Link™ 600

7 = 50/125 µm multimode GIGA-Link™ 2000

6 = 62.5/125 µm multimode GIGA-Link™ 300

8 = 62.5/125 µm multimode GIGA-Link™ 1000

L = 50/125 µm multimode Laser-Link™ 300

9 = Single-mode

Q = Non-zero dispersion-shifted single-mode

K = SM Futureguide SR-15e Bend Insensitive



Armored Loose Tube Cable – Triple Jacket/Double Armor

Acting as the backbone for most of today's fiber based systems, stranded fiber optic cables play a critical role in the high speed network. AFL's Armored Loose Tube Triple Jacket/Double Armor fiber optic cables are designed to provide high fiber counts with the flexibility and versatility required for today's most demanding installations, including direct buried. With fiber counts up to 144 and S-Z strand designs for easy mid-span access, AFL' cables comply with EIA/TIA, REA/RUS PE-90 and GR-20. Industry standard designs combined with innovative technologies, such as a dry core product, yield a world class cable that will support today's and tomorrow's technological needs.

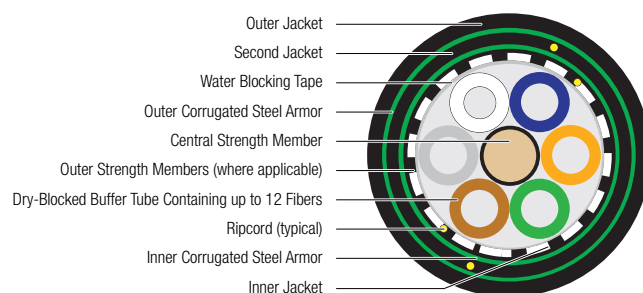
Applications

- Long Haul Networking
- Building Interconnections (Campus LAN)
- Trunking Lines Direct to Telecommunications Closet
- Local Loop
- Distance Learning
- Distribution
- Intrabuilding Backbones

Temperature Range

PARAMETER	VALUE
Operating	-40°C to +70°C
Storage	-40°C to +75°C
Installation	-30°C to +60°C

Cable Components



Typical Lengths

MAXIMUM LENGTHS*				
FIBER COUNT	SINGLE-MODE		MULTIMODE	
	FEET	METERS	FEET	METERS
6 - 72	20,000	6,000	20,000	6,000
84 - 96	14,700	4,500	14,700	4,500
108 - 120	13,000	4,000	13,000	4,000
132 - 144	11,100	3,400	11,100	3,400

* Longer lengths may be available upon request.

Armored Loose Tube Cable – Triple Jacket/Double Armor

Optical Information

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
(8) 62.5/125 GIGA-Link™ 1000	3.5	1.2	N/A	N/A	350	600	500	1000
(5) 50/125 GIGA-Link™ 600	2.9	0.9	N/A	N/A	500	500	600	600
(7) 50/125 GIGA-Link™ 2000	2.9	0.9	N/A	N/A	500	800	750	2000
(L) 50 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	N/A

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.

Ordering Information

AFL NO.	FIBER COUNT	NUMBER OF TUBES/FIBERS	NOMINAL DIAMETER		NOMINAL WEIGHT		MAXIMUM TENSILE LOAD		MINIMUM BEND RADIUS	
			INCHES	MM	LBS/1,000FT	KG/KM	LBS (N)		INCHES (CM)	
							SHORT TERM	LONG TERM	SHORT TERM	LONG TERM
LE006★C5421S1	6	1w/6 (4 fillers)	0.78	19.7	243	362	600 (2670)	180 (800)	15.6 (39.4)	7.8 (19.7)
LE012★C5421S1	12	1w/12 (4 fillers)	0.78	19.7	243	362	600 (2670)	180 (800)	15.6 (39.4)	7.8 (19.7)
LE018★C5421S1	18	1w/12, 1w/6 (3 fillers)	0.78	19.7	243	362	600 (2670)	180 (800)	15.6 (39.4)	7.8 (19.7)
LE024★C5421S1	24	2w/12 (3 fillers)	0.78	19.7	243	362	600 (2670)	180 (800)	15.6 (39.4)	7.8 (19.7)
LE030★C5421S1	30	2w/12, 1w/6 (2 fillers)	0.78	19.7	243	362	600 (2670)	180 (800)	15.6 (39.4)	7.8 (19.7)
LE036★C5421S1	36	3w/12 (2 fillers)	0.78	19.7	243	362	600 (2670)	180 (800)	15.6 (39.4)	7.8 (19.7)
LE048★C5421S1	48	4w/12 (1 filler)	0.78	19.7	243	362	600 (2670)	180 (800)	15.6 (39.4)	7.8 (19.7)
LE060★C5421S1	60	5w/12 (no fillers)	0.78	19.7	243	362	600 (2670)	180 (800)	15.6 (39.4)	7.8 (19.7)
LE072★C6421S1	72	6w/12 (no fillers)	0.81	20.6	262	390	600 (2670)	180 (800)	16.2 (41.2)	8.1 (20.6)
LE084★C8421S1	84	7w/12 (1 filler)	0.88	22.3	302	450	600 (2670)	180 (800)	16.6 (44.3)	8.8 (22.3)
LE096★C8421S1	96	8w/12 (no fillers)	0.88	22.3	302	450	600 (2670)	180 (800)	16.6 (44.3)	8.8 (22.3)
LE108★CA421S1	108	9w/12 (1 filler)	0.94	24.0	346	515	600 (2670)	180 (800)	18.8 (48.0)	9.4 (24.0)
LE120★CA421S1	120	10w/12 (no fillers)	0.94	24.0	346	515	600 (2670)	180 (800)	18.8 (48.0)	9.4 (24.0)
LE132★CC421S1	132	11w/12 (1 filler)	1.02	25.9	392	585	600 (2670)	180 (800)	20.4 (51.8)	10.2 (25.9)
LE144★CC421S1	144	12w/12 (no fillers)	1.02	25.9	392	585	600 (2670)	180 (800)	20.4 (51.8)	10.2 (25.9)

Note: Diameter and weight subject to change without notice

★ Fiber Types – Replace asterisk (★) in AFL number with number corresponding to desired fiber type below.

5 = 50/125 µm multimode GIGA-Link™ 600

7 = 50/125 µm multimode GIGA-Link™ 2000

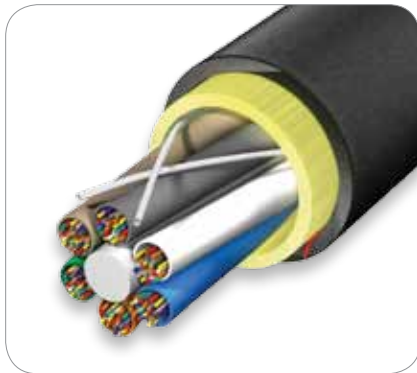
6 = 62.5/125 µm multimode GIGA-Link™ 300

8 = 62.5/125 µm multimode GIGA-Link™ 1000

L = 50/125 µm multimode Laser-Link™ 300

9 = Single-mode

Q = Non-zero dispersion-shifted single-mode



Low Smoke Zero Halogen (LSZH) Loose Tube Cable with Thermoset Jacket

Consisting of thermoset (XLPO) jacket, AFL's LX-series of low-smoke zero-halogen (LSZH) loose tube cables are specifically designed for harsh environments. Ideal for indoor and outdoor industrial applications, the cable design includes dry-core water blocking system, SZ-stranded core for easy mid-span access to fibers, and a highly chemical resistant, cross-linked UV-resistant outer jacket. For even greater mechanical robustness, a corrugated steel armor version is available. Applications include mining, industrial, railways, subways, and much more.

Applications

- Subway tunnels
- Railway right-of-way
- Airport terminals
- Confined space pathways
- Steam tunnels
- Industrial
- Mining
- Shipboard

Temperature Range

Operating: -40°C to +70°C

Storage: -50°C to +75°C

Installation: -20°C to +60°C

Crush*

Armored: 550 N/cm (375 lbs/in)

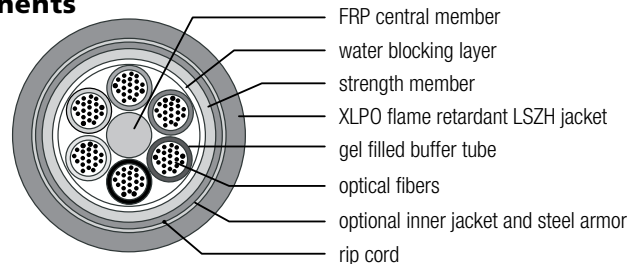
Non-armored: 440 N/cm (250 lbs/in)

* Standard loose tube cables are 220 N/cm (125 lbs/in)

Features

- Fiber counts up to 72
- Low smoke zero halogen, thermoset jacket
- Optional rodent resistant armor available
- Resistant to lubricating oil (Mil-L-23699), hydraulic fluid (Mil-H-5606), gasoline and deionized water
- NEC OFNG-LS listed
- NEC OFCG-LS listed (steel armor option)
- Compliant to NYC Transit TO Spec "Fiber Optic Cables and Cords" – October 2007

Cable Components



Maximum Lengths

FIBER COUNT	SINGLE-MODE		MULTIMODE	
	FEET	METERS	FEET	METERS
2 - 72	23,000	7,000	23,000	7,000

Longer lengths may be available upon request.

Optical Information

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	3.2	1.2	N/A	N/A	200	600	300	550
(8) 62.5/125 GIGA-Link™ 1000	3.2	1.2	N/A	N/A	350	600	500	1000
(5) 50/125 GIGA-Link™ 600	2.9	0.9	N/A	N/A	500	500	600	600
(7) 50/125 GIGA-Link™ 2000	2.9	0.9	N/A	N/A	500	800	750	2000
(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
(K) SM Futureguide SR-15e Bend Insensitive	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.

Low Smoke Zero Halogen (LSZH) Loose Tube Cable with Thermoset Jacket

Ordering Information

AFL NO.	FIBER COUNT	NUMBER OF TUBES/FIBERS	NOMINAL DIAMETER		NOMINAL WEIGHT		MAXIMUM TENSILE LOAD LBS (N)		MINIMUM BEND RADIUS INCHES (CM)	
			INCHES	MM	LBS/1,000 FT	KG/KM	SHORT TERM	LONG TERM	SHORT TERM	LONG TERM
NON-ARMORED (OFNG-LS)										
LX006★C5101N1	6	1w/6 (4 fillers)	0.47	11.9	92	137	600 (2670)	180 (800)	9.4 (24)	4.7 (12)
LX012★C5101N1	12	1w/12 (4 fillers)	0.47	11.9	92	137	600 (2670)	180 (800)	9.4 (24)	4.7 (12)
LX024★C5101N1	24	2w/12 (3 fillers)	0.47	11.9	91	136	600 (2670)	180 (800)	9.4 (24)	4.7 (12)
LX036★C5101N1	36	3w/12 (2 fillers)	0.47	11.9	91	136	600 (2670)	180 (800)	9.4 (24)	4.7 (12)
LX048★C5101N1	48	4w/12 (1 filler)	0.47	11.9	90	134	600 (2670)	180 (800)	9.4 (24)	4.7 (12)
LX060★C5101N1	60	5w/12 (no fillers)	0.47	11.9	90	134	600 (2670)	180 (800)	9.4 (24)	4.7 (12)
LX072★C5101N1	72	6w/12 (no fillers)	0.53	13.5	105	156	600 (2670)	180 (800)	10.6 (27)	5.3 (13.5)
ARMORED (OFCG-LS)										
LX006★C5111S1	6	1w/6 (4 fillers)	0.60	15.2	129	192	600 (2670)	200 (890)	12.4 (32)	6.2 (16)
LX012★C5111S1	12	1w/12 (4 fillers)	0.60	15.2	131	194	600 (2670)	200 (890)	12.4 (32)	6.2 (16)
LX018★C5111S1	18	1w/12,1w/6 (3 fillers)	0.60	15.2	132	196	600 (2670)	200 (890)	12.4 (32)	6.2 (16)
LX024★C5111S1	24	2w/12 (3 fillers)	0.60	15.2	132	196	600 (2670)	200 (890)	12.4 (32)	6.2 (16)
LX030★C5111S1	30	2w/12,1w/6 (2 fillers)	0.60	15.2	132	196	600 (2670)	200 (890)	12.4 (32)	6.2 (16)
LX036★C5111S1	36	3w/12 (2 fillers)	0.60	15.2	132	196	600 (2670)	200 (890)	12.4 (32)	6.2 (16)
LX048★C5111S1	48	4w/12 (1 filler)	0.60	15.2	132	197	600 (2670)	200 (890)	12.4 (32)	6.2 (16)
LX060★C5111S1	60	5w/12 (no fillers)	0.60	15.2	132	198	600 (2670)	200 (890)	12.4 (32)	6.2 (16)
LX072★C6111S1	72	6w/12 (no fillers)	0.63	16.1	153	228	600 (2670)	200 (890)	13.0 (33)	6.5 (17)

NOTES:

- Diameter and weight subject to change without notice.
- For other types of LSZH Cables, please contact your AFL Representative.

★ Fiber Types-Replace asterisk (★) in AFL number with number corresponding to desired fiber type below

5 = 50/125 µm multimode GIGA-Link™ 600

7 = 50/125 µm multimode GIGA-Link™ 2000

6 = 62.5/125 µm multimode GIGA-Link™ 300

8 = 62.5/125 µm multimode GIGA-Link™ 1000

L = 50/125 µm multimode Laser-Link™ 300

9 = Single-mode

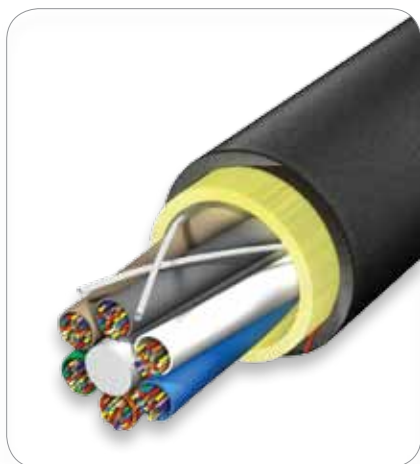
Q = Non-zero dispersion-shifted single-mode

K = SM Futureguide SR-15e Bend Insensitive

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 accommodate long cable lengths.



Low Smoke Zero Halogen Loose Tube Cable OFN-LS Listed and Non-Listed

AFL's Low Smoke Zero Halogen (LSZH) Loose Tube cable is designed for use in outdoor aerial and indoor duct applications including subways and tunnels with requirements for limited smoke and zero halogen. Optical fibers are located within S-Z standard buffer tubes, providing stable and reliable long-term performance. The cable is dry-blocked (no messy gel flooding the core) to prevent axial flow of moisture and utilizes a flame-retardant, non-halogenated UV-resistant outer jacket.

AFL's Low Smoke Zero Halogen (LSZH) loose tube cable group includes OFN-LS Listed as well as non-listed designs. The OFN-LS listed loose tube cable line (LL-Series) is specially engineered for applications that require UL/NEC compliant cables intended for inside-building applications and must meet minimum flame and smoke generation guideline. The Non-Listed cables are also constructed with LSZH materials and are intended for OSP installations where NFPA/NEC listing is not required.

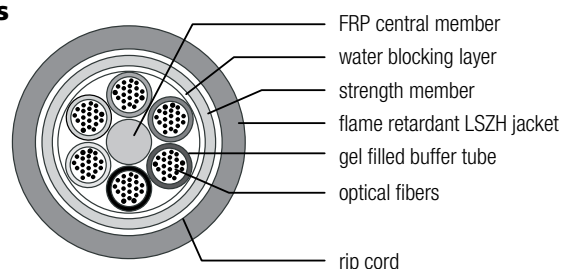
Temperature Range

Operating: -40°C to +70°C

Storage: -40°C to +75°C

Installation: -20°C to +60°C

Cable Components



Typical Lengths

FIBER COUNT	MAXIMUM LENGTHS*			
	SINGLE-MODE		MULTIMODE	
	FEET	METERS	FEET	METERS
2 - 12	39,370	12,000	20,200	6,100
18 - 96	32,800	10,000	26,200	8,000
108 - 120	31,100	9,500	26,200	8,000
132 - 144	22,900	7,000	26,200	8,000

* Longer lengths may be available upon request.

Optical Information

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	3.2	1.2	N/A	N/A	200	600	300	550
(8) 62.5/125 GIGA-Link™ 1000	3.2	1.2	N/A	N/A	350	600	500	1000
(5) 50/125 GIGA-Link™ 600	2.9	0.9	N/A	N/A	500	500	600	600
(7) 50/125 GIGA-Link™ 2000	2.9	0.9	N/A	N/A	500	800	750	2000
(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
(K) SM Futureguide SR-15e Bend Insensitive	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.

Low Smoke Zero Halogen Loose Tube Cable OFN-LS Listed and Non-Listed

Ordering Information

AFL NO.	FIBER COUNT	NUMBER OF TUBES/FIBERS	NOMINAL DIAMETER		NOMINAL WEIGHT		MAXIMUM TENSILE LOAD		MINIMUM BEND RADIUS	
			INCHES	MM	LBS/1,000 FT	KG/KM	LBS (N)		INCHES (CM)	
							SHORT TERM	LONG TERM	SHORT TERM	LONG TERM
NON-ARMORED, SINGLE JACKET, OFN-LS LISTED										
LL006★C5101N1	6	1w/6 (4 fillers)	0.47	11.9	92	137	600 (2670)	180 (800)	9.4 (24)	4.7 (12)
LL012★C5101N1	12	1w/12 (4 fillers)	0.47	11.9	92	137	600 (2670)	180 (800)	9.4 (24)	4.7 (12)
LL024★C5101N1	24	2w/12 (3 fillers)	0.47	11.9	91	136	600 (2670)	180 (800)	9.4 (24)	4.7 (12)
LL036★C5101N1	36	3w/12 (2 fillers)	0.47	11.9	91	136	600 (2670)	180 (800)	9.4 (24)	4.7 (12)
LL048★C5101N1	48	4w/12 (1 filler)	0.47	11.9	90	134	600 (2670)	180 (800)	9.4 (24)	4.7 (12)
LL072★C6101N1	72	6w/12 (no fillers)	0.510	12.8	92	137	600 (2670)	180 (800)	10.2 (26)	5.1 (13)
LL096★C8101N1	96	8w/12 (no fillers)	0.571	14.5	118	175	600 (2670)	180 (800)	11.4 (29)	5.7 (15)
LL144★CC101N1	144	12w/12 (no fillers)	0.720	18.3	185	275	600 (2670)	180 (800)	14.4 (37)	7.2 (19)
NON-ARMORED, SINGLE JACKET, NON- LISTED										
LF006★C5101N1	6	1w/6 (4 fillers)	0.469	11.9	103	154	600 (2670)	180 (800)	9.4 (23.8)	4.7 (11.9)
LF012★C5101N1	12	1w/12 (4 fillers)	0.469	11.9	103	154	600 (2670)	180 (800)	9.4 (23.8)	4.7 (11.9)
LF024★C5101N1	24	2w/12 (3 fillers)	0.469	11.9	102	152	600 (2670)	180 (800)	9.4 (23.8)	4.7 (11.9)
LF036★C5101N1	36	3w/12 (2 fillers)	0.469	11.9	101	150	600 (2670)	180 (800)	9.4 (23.8)	4.7 (11.9)
LF048★C5101N1	48	4w/12 (1 filler)	0.469	11.9	99	148	600 (2670)	180 (800)	9.4 (23.8)	4.7 (11.9)
LF072★C6101N1	72	6w/12 (no fillers)	0.500	12.7	111	166	600 (2670)	180 (800)	10.0 (25.4)	5.0 (12.7)
LF096★C8101N1	96	8w/12 (no fillers)	0.571	14.5	143	212	600 (2670)	180 (800)	11.4 (29.0)	5.7 (14.5)
LF144★CC101N1	144	12w/12 (no fillers)	0.720	18.3	227	338	600 (2670)	180 (800)	14.4 (36.6)	7.2 (18.3)

NOTES:

1. Diameter and weight subject to change without notice.
2. For other types of LSZH Cables: Double Jacket, Non-Armored; Single Jacket, Single Armor; Double Jacket, Single Armor and higher fiber counts in non-armored, please contact your AFL Representative.

★ Fiber Types-Replace asterisk (★) in AFL number with number corresponding to desired fiber type below

5 = 50/125 µm multimode GIGA-Link™ 600

7 = 50/125 µm multimode GIGA-Link™ 2000

6 = 62.5/125 µm multimode GIGA-Link™ 300

8 = 62.5/125 µm multimode GIGA-Link™ 1000

L = 50/125 µm multimode Laser-Link™ 300

9 = Single-mode

Q = Non-zero dispersion-shifted single-mode

K = SM Futureguide SR-15e Bend Insensitive

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

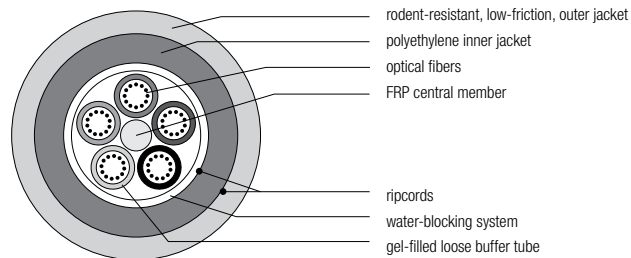
AFL typically provides Loose Tube cable on several standard sizes of non-returnable wooden reels. Non-standard reel sizes are available upon request. Larger reel sizes may be required to accommodate long cable lengths.



Rodent-Resistant Loose Tube Cable – Double Jacket

AFL's All-dielectric Rodent-Resistant cable is designed specifically for environments that have an increased risk of rodent infestation and disturbance. The LN-series product line covers the range of fiber-counts of up to 576 fibers. The ultra-hard, non-metallic outer polymer shell reduces risk of transmission interruptions in vital OSP network interconnections. In addition, the cable line meets all applicable RUS, GR-20 and IEC and TIA related design and performance guidelines.

Cable Components



Applications

- Long Haul Networking
- Building Interconnections (Campus LAN)
- Steam-tunnel Substreet Drainage Networks
- Local Loop
- Airport (FAA-E-2761c, Type B)

Temperature Range

Operating: -40°C to +70°C
 Storage: -40°C to +75°C
 Installation: -30°C to +70°C

Typical Lengths

FIBER COUNT	MAXIMUM LENGTHS*			
	SINGLE-MODE		MULTIMODE	
	FEET	METERS	FEET	METERS
6 - 60	26,200	8,000	26,200	8,000
72 - 96	26,200	8,000	26,200	8,000
108 - 120	26,200	8,000	26,200	8,000
132 - 144	22,600	6,900	22,600	6,900
146 - 216	17,000	5,200	17,000	5,200
218 - 288	15,000	4,600	15,000	4,600
290 - 432	10,800	3,300	10,800	3,300
434 - 576	6,500	2,000	6,500	2,000

* Longer lengths may be available upon request.

Optical Information

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
(8) 62.5/125 GIGA-Link™ 1000	3.5	1.2	N/A	N/A	350	600	500	1000
(5) 50/125 GIGA-Link™ 600	2.9	0.9	N/A	N/A	500	500	600	600
(7) 50/125 GIGA-Link™ 2000	2.9	0.9	N/A	N/A	500	800	750	2000
(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
(K) SM Futureguide SR-15e Bend Insensitive	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.

Rodent-Resistant Loose Tube Cable – Double Jacket

Ordering Information

AFL NO.	FIBER COUNT	NUMBER OF TUBES/FIBERS	NOMINAL DIAMETER		NOMINAL WEIGHT		MAXIMUM TENSILE LOAD		MINIMUM BEND RADIUS	
			INCHES	MM	LBS/1,000FT	KG/KM	LBS (N)		INCHES (CM)	
							SHORT TERM	LONG TERM	SHORT TERM	LONG TERM
LN006★C5101N1	6	1w/6 (4 fillers)	0.49	12.5	84	125	600 (2670)	200 (890)	9.8 (25)	4.9 (13)
LN012★C5101N1	12	1w/12 (4 fillers)	0.49	12.5	84	125	600 (2670)	200 (890)	9.8 (25)	4.9 (13)
LN018★C5101N1	18	1w/12, 1w/6 (3 fillers)	0.49	12.5	84	125	600 (2670)	200 (890)	9.8 (25)	4.9 (13)
LN024★C5101N1	24	2w/12 (3 fillers)	0.49	12.5	84	125	600 (2670)	200 (890)	9.8 (25)	4.9 (13)
LN030★C5101N1	30	2w/12, 1w/6 (2 fillers)	0.49	12.5	84	125	600 (2670)	200 (890)	9.8 (25)	4.9 (13)
LN036★C5101N1	36	3w/12 (2 fillers)	0.49	12.5	84	125	600 (2670)	200 (890)	9.8 (25)	4.9 (13)
LN048★C5101N1	48	4w/12 (1 filler)	0.49	12.5	84	125	600 (2670)	200 (890)	9.8 (25)	4.9 (13)
LN060★C5101N1	60	5w/12 (no fillers)	0.49	12.5	84	125	600 (2670)	200 (890)	9.8 (25)	4.9 (13)
LN072★C6101N1	72	6w/12 (no fillers)	0.53	13.4	97	144	600 (2670)	200 (890)	10.6 (27)	5.3 (14)
LN084★C8101N1	84	7w/12 (1 filler)	0.60	15.2	121	180	600 (2670)	200 (890)	12.0 (31)	6.0 (16)
LN096★C8101N1	96	8w/12 (no fillers)	0.60	15.2	121	180	600 (2670)	200 (890)	12.0 (31)	6.0 (16)
LN108★CA101N1	108	9w/12 (1 filler)	0.67	17.1	151	224	600 (2670)	200 (890)	13.4 (34)	6.7 (17)
LN120★CA101N1	120	10w/12 (no fillers)	0.67	17.1	151	224	600 (2670)	200 (890)	13.4 (34)	6.7 (17)
LN132★CC101N1	132	11w/12 (1 filler)	0.75	19.0	184	274	600 (2670)	200 (890)	15.0 (38)	7.5 (19)
LN144★CC101N1	144	12w/12 (no fillers)	0.75	19.0	184	274	600 (2670)	200 (890)	15.0 (38)	7.5 (19)
LN216★CI301N1	216	18w/12 (no fillers)	0.76	19.3	187	278	600 (2670)	200 (890)	15.2 (39)	7.6 (20)
LN288★CO301N1	288	24w/12 (no fillers)	0.87	22.0	234	348	600 (2670)	200 (890)	17.4 (44)	8.7 (22)
LN432★IO301N1	432	24w/18 (no fillers)	0.94	23.9	273	406	600 (2670)	200 (890)	18.8 (48)	9.4 (24)
LN576★OO301N1	576	24w/24 (no fillers)	1.07	27.3	363	540	600 (2670)	200 (890)	21.4 (55)	10.7 (28)

Note: Diameter and weight subject to change without notice

★ Fiber Types – Replace asterisk (★) in AFL number with number corresponding to desired fiber type below.

5 = 50/125 µm multimode GIGA-Link™ 600

7 = 50/125 µm multimode GIGA-Link™ 2000

6 = 62.5/125 µm multimode GIGA-Link™ 300

8 = 62.5/125 µm multimode GIGA-Link™ 1000

L = 50/125 µm multimode Laser-Link™ 300

9 = Single-mode

K = SM Futureguide SR-15e Bend Insensitive

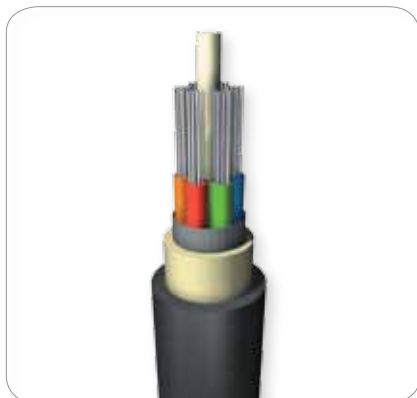
Q = Non-zero dispersion-shifted single-mode

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 accommodate long cable lengths.



FAA-Compliant Loose Tube Cable – Double Jacket

The AFL family of FAA-compliant fiber optic loose tube cables is specifically designed for airport and related installations that must comply with meet U.S. Department of Transportation Federal Aviation Administration (FAA) requirements. AFL FAA-compliant loose tube cables incorporate a highly chemical resistant Polyamide jacketing system that is ideally suited for use in pathways exposed to hydrocarbon liquids, de-icing fluids, cleaning solvents, jet fuels and other outside-plant networking applications that are typical at these facilities. AFL FAA-compliant cables are available with a variety of fiber-types including; Singlemode, multimode, bend-insensitive and hybrid (SM and MM) optical fibers.

Applications

- Runway communication, lighting and control
- Controltower-remotelocation networking
- Inter-terminal network connections
- Pathways exposed to corrosive solutions
- Direct burial in suitable trenched pathways

Standards

- FAA-E-2761, Type B
- GR-20-CORE
- TIA/EIA-568-B

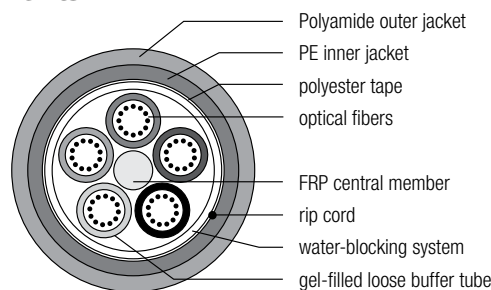
Temperature Range

Operating: -40°C to +70°C

Storage: -40°C to +75°C

Installation: -10°C to +70°C

Cable Components



Typical Lengths

FIBER COUNT	MAXIMUM LENGTHS*			
	SINGLE-MODE		MULTIMODE	
	FEET	METERS	FEET	METERS
6 - 60	39,370	12,000	26,200	8,000
72 - 96	32,800	10,000	26,200	8,000
108 - 120	31,100	9,500	26,200	8,000
132 - 144	22,900	7,000	23,000	7,000

* Longer lengths may be available upon request.

Optical Information

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
(8) 62.5/125 GIGA-Link™ 1000	3.5	1.2	N/A	N/A	350	600	500	1000
(5) 50/125 GIGA-Link™ 600	2.9	0.9	N/A	N/A	500	500	600	600
(7) 50/125 GIGA-Link™ 2000	2.9	0.9	N/A	N/A	500	800	750	2000
(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) SM Futureguide SR-15e Bend Insensitive	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.

FAA-Compliant Loose Tube Cable – Double Jacket

Ordering Information

AFL NO.	FIBER COUNT	NUMBER OF TUBES/FIBERS	NOMINAL DIAMETER		NOMINAL WEIGHT		MAXIMUM TENSILE LOAD		MINIMUM BEND RADIUS	
			INCHES	MM	LBS/1,000FT	KG/KM	LBS (N)		INCHES (CM)	
							SHORT TERM	LONG TERM	SHORT TERM	LONG TERM
LG006★C5111N1	6	1w/6 (4 fillers)	0.46	11.8	92	137	600 (2670)	200 (890)	9.2 (23.6)	4.6 (11.8)
LG012★C5111N1	12	1w/12 (4 fillers)	0.46	11.8	92	137	600 (2670)	200 (890)	9.2 (23.6)	4.6 (11.8)
LG018★C5111N1	18	1w/12, 1w/6 (3 fillers)	0.46	11.8	96	143	600 (2670)	200 (890)	9.2 (23.6)	4.6 (11.8)
LG024★C5111N1	24	2w/12 (3 fillers)	0.46	11.8	96	143	600 (2670)	200 (890)	9.2 (23.6)	4.6 (11.8)
LG030★C5111N1	30	2w/12, 1w/6 (2 fillers)	0.46	11.8	96	143	600 (2670)	200 (890)	9.2 (23.6)	4.6 (11.8)
LG036★C5111N1	36	3w/12 (2 fillers)	0.46	11.8	96	143	600 (2670)	200 (890)	9.2 (23.6)	4.6 (11.8)
LG048★C5111N1	48	4w/12 (1 filler)	0.46	11.8	96	143	600 (2670)	200 (890)	9.2 (23.6)	4.6 (11.8)
LG060★C5111N1	60	5w/12 (no fillers)	0.46	11.8	96	143	600 (2670)	200 (890)	9.2 (23.6)	4.6 (11.8)
LG072★C6111N1	72	6w/12 (no fillers)	0.50	12.8	110	163	600 (2670)	200 (890)	10.0 (25.6)	5.0 (12.8)
LG084★C8111N1	84	7w/12 (1 filler)	0.57	14.6	129	191	600 (2670)	200 (890)	11.4 (29.2)	5.7 (14.6)
LG096★C8111N1	96	8w/12 (no fillers)	0.57	14.6	129	191	600 (2670)	200 (890)	11.4 (29.2)	5.7 (14.6)
LG108★CA111N1	108	9w/12 (1 filler)	0.64	16.3	149	221	600 (2670)	200 (890)	12.8 (32.6)	6.4 (16.3)
LG120★CA111N1	120	10w/12 (no fillers)	0.64	16.3	149	221	600 (2670)	200 (890)	12.8 (32.6)	6.4 (16.3)
LG132★CC111N1	132	11w/12 (1 filler)	0.72	18.3	204	303	600 (2670)	200 (890)	14.4 (36.6)	7.2 (18.3)
LG144★CC111N1	144	12w/12 (no fillers)	0.72	18.3	204	303	600 (2670)	200 (890)	14.4 (36.6)	7.2 (18.3)

Note: Diameter and weight subject to change without notice

★ Fiber Types – Replace asterisk (★) in AFL number with number corresponding to desired fiber type below.

5 = 50/125 µm multimode GIGA-Link™ 600

7 = 50/125 µm multimode GIGA-Link™ 2000

6 = 62.5/125 µm multimode GIGA-Link™ 300

8 = 62.5/125 µm multimode GIGA-Link™ 1000

9 = Single-mode

L = 50/125 µm multimode Laser-Link™ 300

K = SM Futureguide SR-15e Bend Insensitive

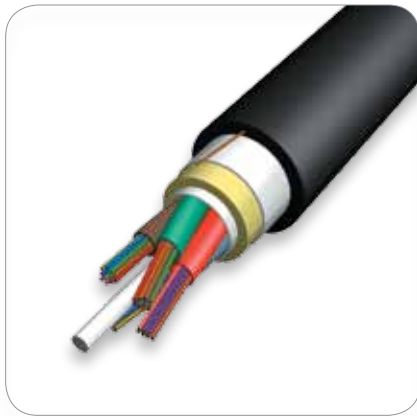
Q = Non-zero dispersion-shifted single-mode

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 accommodate long cable lengths.



Mini-Span® ADSS Cable

AFL Mini-Span All-Dielectric Self-Supporting (ADSS) cable is designed for outside plant aerial and duct applications in local and campus network loop architectures. From pole-to-build to town-town installations, the Mini-Span cabling system, which includes cables, suspension, dead end and termination enclosures, offers a comprehensive transmission circuit infrastructure with proven, high-reliability performance. As the ADSS cabling concept implies, a separate messenger support wire hanging system is not required, greatly reducing installation time and improving upfront and maintenance labor costs.

Mini-Span includes fiber counts up to 144 optical fibers and any type or combination of single-mode and laser-optimized multimode fibers with the cable. Pole-to-Pole span lengths range from 50 feet to over 1000 feet. Custom ADSS design options allow span lengths of over one mile (5,280 feet).

Mechanical Data

CABLE	FIBER COUNT	NOMINAL DIAMETER		NOMINAL WEIGHT		MAXIMUM LENGTHS*			
						SINGLE-MODE		MULTIMODE	
		INCHES	MM	LBS/1000'	KG/KM	FEET	METERS	FEET	METERS
Mini-Span 323	2-24	0.323	8.2	35	53	32,800	10,000	26,250	8,000
Mini-Span 383	2-48	0.383	9.7	49	72	32,800	10,000	26,250	8,000
Mini-Span 424	2-60	0.424	10.8	57	84	32,800	10,000	26,250	8,000
Mini-Span 484	2-90	0.484	12.3	77	115	32,800	10,000	26,250	8,000
Mini-Span 535	2-96	0.535	13.6	100	148	32,800	10,000	26,250	8,000
Mini-Span 693	2-144	0.693	17.6	151	224	23,000	7,000	23,000	7,000

* Longer lengths may be available upon request.

Installation Information

CABLE	NESC SPANS (@ 1% INITIAL SAG) FEET (METERS)			MAX. SAGGING TENSION		MAX. LOADING OPERATING TENSION		MIN. BENDING RADIUS (DYNAMIC)		MIN. BENDING RADIUS (STATIC)	
	LIGHT	MEDIUM	HEAVY	LBS	N	LBS	N	INCHES	CM	INCHES	CM
Mini-Span 323	500 (152)	300 (91)	175 (53)	147	654	374	1668	7	17	3.5	8.5
Mini-Span 383	450 (137)	300 (91)	180 (55)	183	814	402	1,785	8	20	4	10
Mini-Span 424	600 (183)	450 (137)	275 (84)	424	1886	707	3145	9	22	4	11
Mini-Span 484	525 (160)	400 (122)	275 (84)	531	2363	840	3738	10	25	5	13
Mini-Span 535	1050 (320)	850 (259)	575 (175)	1,306	5,809	1,783	7,936	13	27	5	14
Mini-Span 693	750 (229)	600 (183)	500 (152)	1,411	6,278	1,856	8,260	14	36	7	18

Optical Information

CABLE	MAXIMUM ATTENUATION (db/km)			BANDWIDTH (MHz•km)		
	SINGLE-MODE (1310 nm/1550 nm)	MULTIMODE *62.5/125 µm (850 nm/1300 nm)	MULTIMODE 50/125 µm (850 nm/1300 nm)	SINGLE-MODE (1310 nm/1550 nm)	MULTIMODE *62.5/125 µm (850 nm/1300 nm)	MULTIMODE 50/125 µm (850 nm/1300 nm)
Mini-Span 323	0.40/0.30	3.5/1.2	3.5/1.2	n/a	200/600	500/500
Mini-Span 383	0.35/0.25	3.5/1.2	2.9/0.9			
Mini-Span 424						
Mini-Span 484						
Mini-Span 535						
Mini-Span 693						

* All 62.5/125 µm multimode ADSS cable transmission performances meet or exceed FDDI requirements.
Premium transmission performance fibers available on request.

Mini-Span® ADSS Cable

Ordering Information

CABLE	FIBER COUNT	FIBERS PER TUBE	NUMBER OF TUBES / FIBERS	AFL NO.		
				SINGLE-MODE	MULTIMODE 62.5/125	MULTIMODE 50/125
Mini-Span 323	6	6	1 w/6	AE0066420AA1	AE0066420AA1	AE00656420AA1
	12	6	2 w/6	AE01296420AA1	AE01266420AA1	AE01256420AA1
	18	6	3 w/6	AE01896420AA1	AE01866420AA1	AE01856420AA1
	24	6	4 w/6	AE02496420AA1	AE02466420AA1	AE02456420AA1
Mini-Span 383	6	6	1 w/6 (3 fillers)	AE0069C420AA0	AE0066C420AA0	AE0065C420AA0
	12	12	1 w/12 (3 fillers)	AE0129C420AA0	AE0126C420AA0	AE0125C420AA0
	18	12	1 w/12, 1 w/6 (2 fillers)	AE0189C420AA0	AE0186C420AA0	AE0185C420AA0
	24	12	2 w/12 (2 fillers)	AE0249C420AA0	AE0246C420AA0	AE0245C420AA0
	30	12	2 w/12, 1 w/6 (1 filler)	AE0309C420AA0	AE0306C420AA0	AE0305C420AA0
	36	12	3 w/12 (1 filler)	AE0369C420AA0	AE0366C420AA0	AE0365C420AA0
	48	12	4 w/12	AE0489C420AA0	AE0486C420AA0	AE0485C420AA0
Mini-Span 424	6	6	1 w/6 (4 fillers)	AE0069C520AA4	AE0066C520AA4	AE0065C520AA4
	12	12	1 w/12 (4 fillers)	AE0129C520AA4	AE0126C520AA4	AE0125C520AA4
	18	12	1 w/12, 1 w/6 (3 fillers)	AE0189C520AA4	AE0186C520AA4	AE0185C520AA4
	24	12	2 w/12 (3 fillers)	AE0249C520AA4	AE0246C520AA4	AE0245C520AA4
	30	12	2 w/12, 1 w/6 (2 fillers)	AE0309C520AA4	AE0306C520AA4	AE0305C520AA4
	36	12	3 w/12 (2 fillers)	AE0369C520AA4	AE0366C520AA4	AE0365C520AA4
	48	12	4 w/12 (1 filler)	AE0489C520AA4	AE0486C520AA4	AE0485C520AA4
	60	12	5 w/12 (no fillers)	AE0609C520AA4	AE0606C520AA4	AE0605C520AA4
Mini-Span 484	6	6	1 w/6 (4 fillers)	AE0069I520EA1	AE0066I520EA1	AE0065I520EA1
	12	12	1 w/12 (4 fillers)	AE0129I520EA1	AE0126I520EA1	AE0125I520EA1
	18	12	1 w/12, 1 w/6 (3 fillers)	AE0189I520EA1	AE0186I520EA1	AE0185I520EA1
	24	12	2 w/12 (3 fillers)	AE0249I520EA1	AE0246I520EA1	AE0245I520EA1
	30	12	2 w/12, 1 w/6 (2 fillers)	AE0309I520EA1	AE0306I520EA1	AE0305I520EA1
	36	12	3 w/12 (2 fillers)	AE0369I520EA1	AE0366I520EA1	AE0365I520EA1
	48	12	4 w/12 (1 filler)	AE0489I520EA1	AE0486I520EA1	AE0485I520EA1
	60	12	5 w/12 (no fillers)	AE0609I520EA1	AE0606I520EA1	AE0605I520EA1
	72	18	4 w/18 (1 filler)	AE0729I520EA1	AE0726I520EA1	AE0725I520EA1
	84	18	4 w/18, 1 w/12 (no fillers)	AE0849I520EA1	AE0846I520EA1	AE0845I520EA1
Mini-Span 535	6	6	1 w/6 (7 fillers)	AE0069C820EA7	AE0066C820EA7	AE0065C820EA7
	12	12	1 w/12 (7 fillers)	AE0129C820EA7	AE0126C820EA7	AE0125C820EA7
	18	12	1 w/12, 1 w/6 (6 fillers)	AE0189C820EA7	AE0186C820EA7	AE0185C820EA7
	24	12	2 w/12 (6 fillers)	AE0249C820EA7	AE0246C820EA7	AE0245C820EA7
	30	12	2 w/12, 1 w/6 (5 fillers)	AE0309C820EA7	AE0306C820EA7	AE0305C820EA7
	36	12	3 w/12 (5 fillers)	AE0369C820EA7	AE0366C820EA7	AE0365C820EA7
	48	12	4 w/12 (4 fillers)	AE0489C820EA7	AE0486C820EA7	AE0485C820EA7
	60	12	5 w/12 (3 fillers)	AE0609C820EA7	AE0606C820EA7	AE0605C820EA7
	72	12	6 w/12 (2 fillers)	AE0729C820EA7	AE0726C820EA7	AE0725C820EA7
	84	12	7 w/12 (1 filler)	AE0849C820EA7	AE0846C820EA7	AE0845C820EA7
Mini-Span 693	96	12	8 w/12 (no fillers)	AE0969C820EA7	AE0966C820EA7	AE0965C820EA7
	12	12	1 w/12 (11 fillers)	AE0129CC20EA0	AE0126CC20EA0	AE0125CC20EA0
	24	12	2 w/12 (10 fillers)	AE0249CC20EA0	AE0246CC20EA0	AE0245CC20EA0
	36	12	3 w/12 (9 fillers)	AE0369CC20EA0	AE0366CC20EA0	AE0365CC20EA0
	48	12	4 w/12 (8 fillers)	AE0489CC20EA0	AE0486CC20EA0	AE0485CC20EA0
	60	12	5 w/12 (7 fillers)	AE0609CC20EA0	AE0606CC20EA0	AE0605CC20EA0
	72	12	6 w/12 (6 fillers)	AE0729CC20EA0	AE0726CC20EA0	AE0725CC20EA0
	84	12	7 w/12 (5 fillers)	AE0849CC20EA0	AE0846CC20EA0	AE0845CC20EA0
	96	12	8 w/12 (4 fillers)	AE0969CC20EA0	AE0966CC20EA0	AE0965CC20EA0
	108	12	9 w/12 (3 fillers)	AE1089CC20EA0	AE1086CC20EA0	AE1085CC20EA0
	120	12	10 w/12 (2 fillers)	AE1209CC20EA0	AE1206CC20EA0	AE1205CC20EA0
	132	12	11 w/12 (1 filler)	AE1329CC20EA0	AE1326CC20EA0	AE1325CC20EA0
	144	12	12 w/12 (no fillers)	AE1449CC20EA0	AE1446CC20EA0	AE1445CC20EA0

Contact customer service for price and availability. Non-zero dispersion-shifted fibers are also available.

Mini-Span® ADSS Cable

Sag and Tension Information

CABLE	SPAN		INITIAL SAG	INITIAL TENSION		NESC LIGHT LOADING			NESC MEDIUM LOADING			NESC HEAVY LOADING		
	FEET	METERS	%	LBS	N	SAG		TENSION	SAG		TENSION	SAG		TENSION
						%	LBS		%	LBS		%	LBS	
MINI-SPAN 323	50	15	1.5	15	67	0.4	66	294	2.1	101	449	3.2	152	677
	75	23	1.5	22	98	0.5	90	339	2.3	135	602	3.6	202	901
	100	30	1.5	30	133	0.5	111	494	2.5	166	741	3.9	248	1,102
	125	38	1.5	37	165	0.5	131	583	2.7	195	867	4.2	289	1,288
	150	46	1.5	44	196	0.5	150	667	2.8	222	989	4.5	329	1,463
	175	53	1.5	52	232	0.6	168	748	3.0	248	1,104	4.7	366	1,629
	200	61	1.5	59	262	0.6	185	825	3.1	273	1,214	—	—	—
	225	69	1.5	66	294	0.6	202	900	3.2	297	1,321	—	—	—
	250	76	1.5	74	329	0.6	219	973	3.3	320	1,424	—	—	—
	275	84	1.5	81	360	0.6	235	1,044	3.4	342	1,524	—	—	—
	300	91	1.5	88	392	0.6	250	1,113	3.5	364	1,621	—	—	—
	325	99	1.5	96	427	0.7	265	1,181	—	—	—	—	—	—
	350	107	1.5	103	458	0.7	280	1,247	—	—	—	—	—	—
	375	114	1.5	111	494	0.7	295	1,312	—	—	—	—	—	—
	400	122	1.5	118	525	0.7	309	1,376	—	—	—	—	—	—
	425	130	1.5	125	556	0.7	324	1,440	—	—	—	—	—	—
	450	137	1.5	133	592	0.7	338	1,502	—	—	—	—	—	—
MINI-SPAN 383	50	15	1.5	20	89	0.5	76	337	2.2	108	482	3.2	161	717
	75	23	1.5	30	133	0.5	103	457	2.4	146	648	3.6	215	956
	100	30	1.5	41	182	0.6	128	568	2.6	179	798	4.0	263	1,171
	125	38	1.5	51	227	0.6	151	671	2.8	211	938	4.2	308	1,370
	150	46	1.5	61	271	0.6	173	768	2.9	240	1,070	4.5	350	1,558
	175	53	1.5	71	316	0.6	194	862	3.0	269	1,196	4.7	390	1,736
	200	61	1.5	81	360	0.7	214	952	3.2	296	1,317	—	—	—
	225	69	1.5	91	405	0.7	234	1,040	3.3	322	1,434	—	—	—
	250	76	1.5	101	449	0.7	253	1,125	3.4	348	1,547	—	—	—
	275	84	1.5	112	498	0.7	272	1,209	3.5	372	1,657	—	—	—
	300	91	1.5	122	543	0.7	290	1,290	3.5	397	1,765	—	—	—
	325	99	1.5	132	587	0.8	308	1,370	—	—	—	—	—	—
	350	107	1.5	142	632	0.8	325	1,448	—	—	—	—	—	—
	375	114	1.5	152	676	0.8	343	1,525	—	—	—	—	—	—
	400	122	1.5	162	721	0.8	360	1,601	—	—	—	—	—	—
	425	130	1.5	172	765	0.8	377	1,676	—	—	—	—	—	—
	450	137	1.5	183	814	0.8	393	1,750	—	—	—	—	—	—

Mini-Span® ADSS Cable

Sag and Tension Information

CABLE	SPAN		INITIAL SAG	INITIAL TENSION		NESC LIGHT LOADING			NESC MEDIUM LOADING			NESC HEAVY LOADING		
						SAG		TENSION	SAG		TENSION	SAG		TENSION
	FEET	METERS	%	LBS	N	%	LBS		%	LBS		%	LBS	
MINI-SPAN 424	50	15	1.0	35	156	0.4	104	463	1.7	142	632	2.6	207	921
	75	23	1.0	53	236	0.4	142	632	1.9	191	850	3.0	275	1,223
	100	30	1.0	71	316	0.5	176	783	2.1	235	1,095	3.2	337	1,499
	125	38	1.0	88	391	0.5	208	925	2.2	276	1,228	3.4	395	1,757
	150	46	1.0	106	472	0.5	238	1,059	2.4	315	1,401	3.6	449	1,997
	175	53	1.0	124	552	0.5	268	1,192	2.5	353	1,570	3.8	501	2,229
	200	61	1.0	141	627	0.6	296	1,317	2.6	389	1,730	4.0	50	2,447
	225	69	1.0	159	707	0.6	324	1,441	2.7	424	1,886	4.1	598	2,660
	250	76	1.0	177	787	0.6	351	1,561	2.7	458	2,037	4.2	645	2,869
	275	84	1.0	194	863	0.6	378	1,681	2.8	491	2,184	4.3	690	3,069
	300	91	1.0	212	943	0.6	404	1,737	2.8	524	2,331	—	—	—
	325	99	1.0	230	1,023	0.6	429	1,908	2.9	556	2,473	—	—	—
	350	107	1.0	247	1,099	0.6	455	2,024	3.0	587	2,611	—	—	—
	375	114	1.0	265	1,179	0.6	479	2,131	3.0	618	2,749	—	—	—
	400	122	1.0	283	1,259	0.6	504	2,242	3.1	648	2,882	—	—	—
	425	130	1.0	300	1,334	0.7	528	2,349	3.1	678	3,016	—	—	—
	450	137	1.0	318	1,415	0.7	552	2,455	3.2	703	3,145	—	—	—
	475	145	1.0	336	1,495	0.7	576	2,562	—	—	—	—	—	—
	500	152	1.0	353	1,570	0.7	600	2,669	—	—	—	—	—	—
	525	160	1.0	371	1,650	0.7	623	2,771	—	—	—	—	—	—
	550	168	1.0	389	1,730	0.7	646	2,874	—	—	—	—	—	—
MINI-SPAN 484	575	175	1.0	406	1,806	0.7	669	2,976	—	—	—	—	—	—
	600	183	1.0	424	1,886	0.7	692	3,078	—	—	—	—	—	—
	50	15	1.0	51	227	0.4	131	583	1.6	172	765	2.4	247	1,099
	75	23	1.0	76	338	0.5	179	797	1.8	232	1,032	2.7	331	1,473
	100	30	1.0	101	449	0.5	223	992	2.0	287	1,277	2.9	406	1,807
	125	38	1.0	126	561	0.5	264	1,175	2.1	338	1,504	3.1	477	2,123
	150	46	1.0	152	676	0.6	304	1,353	2.2	387	1,722	3.2	543	2,416
	175	53	1.0	177	788	0.6	342	1,522	2.3	434	1,931	3.4	607	2,701
	200	61	1.0	202	899	0.6	379	1,687	2.3	480	2,136	3.5	668	2,973
	225	69	1.0	228	1,015	0.6	416	1,851	2.4	524	2,332	3.6	727	3,235
	250	76	1.0	253	1,126	0.6	451	2,007	2.5	567	2,523	3.7	784	3,489
	275	84	1.0	278	1,237	0.6	486	2,163	2.5	609	2,710	3.8	840	3,738
	300	91	1.0	303	1,348	0.7	521	2,318	2.6	650	2,893	—	—	—
	325	99	1.0	329	1,464	0.7	554	2,465	2.6	690	3,071	—	—	—
	350	107	1.0	354	1,575	0.7	588	2,617	2.7	730	3,249	—	—	—
	375	114	1.0	379	1,687	0.7	621	2,763	2.7	769	3,422	—	—	—
	400	122	1.0	405	1,802	0.7	653	2,906	2.8	808	3,596	—	—	—
	425	130	1.0	430	1,914	0.7	686	3,053	—	—	—	—	—	—
	450	137	1.0	455	2,025	0.7	718	3,195	—	—	—	—	—	—
	475	145	1.0	480	2,136	0.7	749	3,333	—	—	—	—	—	—
	500	152	1.0	506	2,252	0.7	781	3,475	—	—	—	—	—	—
	525	160	1.0	531	2,363	0.7	812	3,613	—	—	—	—	—	—

Mini-Span® ADSS Cable

Sag and Tension Information

CABLE	SPAN		INITIAL SAG	INITIAL TENSION		NESC LIGHT LOADING			NESC MEDIUM LOADING			NESC HEAVY LOADING		
						SAG		TENSION	SAG		TENSION	SAG		TENSION
	FEET	METERS	%	LBS	N	%	LBS		%	LBS		%	LBS	
MINI-SPAN 535	50	15	1	62	276	0.4	160	713	1.5	206	918	2.1	297	1,319
	100	30	1	124	552	0.5	274	1,220	1.7	347	1,542	2.5	489	2,176
	150	46	1	187	832	0.6	375	1,670	1.9	469	2,087	2.8	655	2,915
	200	61	1	249	1,108	0.6	469	2,088	2.1	582	2,590	3.1	807	3,588
	250	76	1	311	1,383	0.6	559	2,486	2.2	689	3,063	3.3	948	4,217
	300	91	1	373	1,659	0.6	645	2,868	2.3	790	3,515	3.4	1,082	4,813
	350	107	1	435	1,935	0.7	728	3,239	2.4	888	3,951	3.6	1,210	5,384
	400	122	1	497	2,211	0.7	810	3,601	2.5	983	4,374	3.7	1,334	5,935
	450	137	1	560	2,491	0.7	889	3,956	2.5	1,076	4,785	3.8	1,454	6,469
	500	152	1	622	2,767	0.7	968	4,304	2.6	1,166	5,188	3.9	1,571	6,988
	550	168	1	684	3,043	0.7	1,045	4,647	2.7	1,255	5,583	4.0	1,685	7,495
	575	175	1	715	3,180	0.7	1,083	4,817	2.7	1,299	5,778	4.1	1,741	7,745
	600	183	1	746	3,318	0.7	1,121	4,985	2.7	1,342	5,971	—	—	—
	650	198	1	808	3,594	0.8	1,196	5,320	2.8	1,428	6,353	—	—	—
	700	213	1	870	3,870	0.8	1,270	5,650	2.8	1,513	6,730	—	—	—
	750	229	1	933	4,150	0.8	1,344	5,978	2.8	1,597	7,102	—	—	—
	800	244	1	995	4,426	0.8	1,417	6,303	2.9	1,679	7,469	—	—	—
	850	259	1	1,057	4,702	0.8	1,489	6,625	2.9	1,761	7,833	—	—	—
	900	274	1	1,119	4,978	0.8	1,561	6,945	—	—	—	—	—	—
	950	290	1	1,181	5,253	0.8	1,633	7,263	—	—	—	—	—	—
	1,000	305	1	1,243	5,529	0.8	1,704	7,579	—	—	—	—	—	—
	1,050	320	1	1,306	5,809	0.8	1,775	7,894	—	—	—	—	—	—
MINI-SPAN 693	50	15	1.0	94	418	0.5	201	894	1.5	241	1,072	2.1	336	1,495
	100	30	1.0	188	836	0.6	347	1,544	1.8	409	1,820	2.6	558	2,483
	150	46	1.0	282	1,255	0.6	479	2,131	2.0	559	2,487	2.9	752	3,346
	200	61	1.0	376	1,673	0.7	602	2,679	2.1	698	3,106	3.1	930	4,138
	250	76	1.0	470	2,091	0.7	721	3,208	2.2	830	3,693	3.3	1,097	4,881
	300	91	1.0	565	2,514	0.7	836	3,720	2.3	958	4,263	3.4	1,257	5,593
	350	107	1.0	659	2,932	0.8	949	4,223	2.4	1,081	4,810	3.6	1,411	6,278
	400	122	1.0	753	3,350	0.8	1,059	4,712	2.5	1,202	5,348	3.7	1,560	6,941
	450	137	1.0	847	3,769	0.8	1,168	5,197	2.5	1,321	5,878	3.8	1,705	7,586
	500	152	1.0	941	4,187	0.8	1,275	5,673	2.6	1,437	6,394	3.9	1,847	8,218
	550	168	1.0	1,035	4,605	0.8	1,381	6,145	2.6	1,552	6,906	—	—	—
	600	183	1.0	1,129	5,023	0.8	1,486	6,612	2.7	1,665	7,408	—	—	—
	650	198	1.0	1,223	5,442	0.8	1,591	7,079	—	—	—	—	—	—
	700	213	1.0	1,317	5,860	0.9	1,694	7,537	—	—	—	—	—	—
	750	229	1.0	1,411	6,278	0.9	1,797	7,996	—	—	—	—	—	—

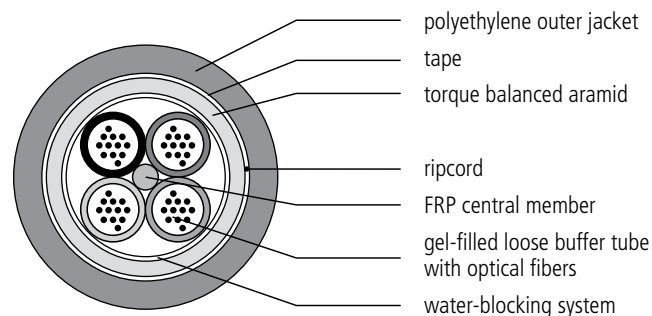
Mini-Span® ADSS Cable

Reel Information

REEL SPECS	REEL A		REEL B		REEL C		REEL D		REEL E	
ITEM	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
MAXIMUM CABLE LENGTH (feet/meters)										
Mini-Span 323	15,256 ft	4,650 m	32,800 ft	10,000 m	—	—	—	—	—	—
Mini-Span 383	10,827 ft	3,300 m	25,202 ft	7,700 m	32,800 ft	10,000 m	—	—	—	—
Mini-Span 424	8,850 ft	2,700 m	20,250 ft	6,200 m	26,250 ft	8,000 m	32,800 ft	10,000 m	—	—
Mini-Span 484	6,500 ft	2,000 m	15,750 ft	4,800 m	21,000 ft	6,450 m	32,800 ft	10,000 m	—	—
Mini-Span 535	5,500 ft	1,675 m	12,800 ft	3,900 m	17,225 ft	5,250 m	22,700 ft	6,920 m	—	—
Mini-Span 693	—	—	9,300 ft	2,835 m	12,500 ft	3,810 m	16,330 ft	4,975 m	23,000 ft	7,000 m

AFL provides ADSS cable on several standard sizes of non-returnable wooden reels. Non-standard reel sizes are available on request.

Typical Cable Components



Temperature Range

Operating: -40°C to +70°C

Storage: -50°C to +70°C

Installation: -30°C to +70°C

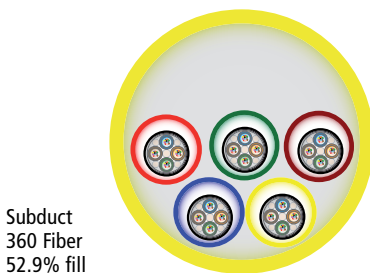
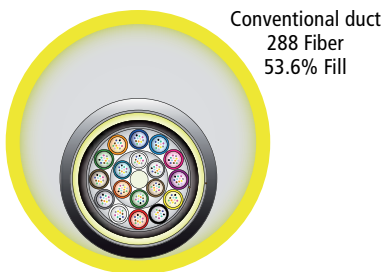


MicroCore® Blown Fiber Optic Cable

AFL MicroCore® is an advanced Blown Fiber Optic Cable system for underground duct cables. The MicroCore product line is a complete solution with designs suitable for many applications and needs from backbone networks to FTTx. Whether the need is for high Fiber density or small cable diameter, the MicroCore range has the solution. Designs are always based on minimal cable and duct diameters for cost effective installation and materials.

MicroCore cables are jetted through a network of microducts using compressed air. Conduit systems can be laid and microducts and cable can be blown in as and when required, giving installers the flexibility of deploying fiber only when needed and reducing initial investment costs. Making provisions for future installations also means that only the very latest fiber optic technology is used and therefore scaled to changing market demands.

The MicroCore system can be used for overriding existing networks and conduits, which reduces network disruption and expensive excavation costs and permits during installation. MicroCore cable is lightweight and flexible made with a specially designed low friction jacket to enable greater jetting lengths to reduce time and cost.

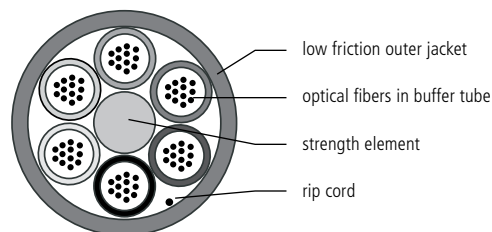


Features

- Scalable deployment
- Rapid cost effective installation
- Fiber counts up to 144
- Range of cable designs and sizes to suit a variety of duct size
- No EMI or earth bonding limitations
- Fiber arranged in buffer tubes some designs suitable for 12-Fiber management
- Suitable for microducts supplied by all manufacturers
- Installation speeds of up to 120 m/min. and over 2.5 km lengths at a time
- Robust for handling in the field
- High level bend capacity
- Low friction jacket design
- Easy access and breakout of Fibers

Cable Components

Multi-tube Design (4-8 tubes)



MicroCore® Blown Fiber Optic Cable

Mechanical Data

AFL NO. (n=number of fibers)	MAX. FIBERS	NO. OF TUBES	OUTSIDE DIAMETER mm (inches)	UNIT WEIGHT kg/km (lbs/1000ft)	STORAGE TEMP. °C	OPERATING TEMP. °C	MAX. INSTALLATION TENSILE LOAD kN (lbs)	MIN. BEND RADIUS mm (inches)	CABLE MARKING	SUITABLE SUB-DUCT SIZE ID mm (inches)
MCnnDA4-4.2	24	4	4.2 ± 0.1 (0.16)	16 ± 1 (11)	-20 to +65	-20 to +65	0.25 (56)	90 (3.5)	yes	5.5 (0.21)
MCnnDA4-6.1	72	4	6.1 ± 0.1 (0.24)	30 ± 1 (20)	-30 to +85	-30 to +85	0.3 (67)	130 (5.1)	yes	8 (0.31)
MCnnDA4-7.4	96	4	7.4 ± 0.1 (0.29)	44 ± 1 (30)	-20 to +65	-20 to +65	0.35 (79)	150 (5.9)	yes	10 (0.39)
MCnnDA6-6.1	72	6	6.1 ± 0.1 (0.24)	30 ± 1 (20)	-40 to +85	-40 to +85	0.35 (79)	130 (5.1)	yes	8 (0.31)
MCnnDA6-7.4	96	6	7.4 ± 0.1 (0.29)	43 ± 1 (29)	-20 to +65	-20 to +65	1.2 (270)	150 (5.9)	yes	10 (0.39)
MCnnDA6-7.9	144	6	7.9 ± 0.1 (0.31)	43 ± 1 (29)	-30 to +65	-30 to +65	0.3 (67)	135 (5.3)	yes	10 (0.39)
MCnnDA6-9.2	144	6	9.2 ± 0.1 (0.36)	65 ± 1 (44)	-40 to +85	-40 to +85	1.5 (337)	190 (7.5)	yes	12 (0.47)
MCnnDA8-6.6	96	8	6.6 ± 0.1 (0.25)	33 ± 1 (22)	-40 to +65	-40 to +65	0.2 (45)	130 (5.1)	yes	8 (0.31)
MCnnDA8-7.6	96	8	7.6 ± 0.1 (0.29)	53 ± 1 (36)	-40 to +85	-40 to +85	0.6 (135)	150 (5.9)	yes	10 (0.39)

- NOTES: 1. All cable designs are available with all fibre types including; low bend, low water peak, MM, SMF.
2. All cable designs are available with tube or jacket colours to EIA 598 or customer specification
3. All cable designs are available with fibre colours to EIA 598 or customer specification
4. Cable markings are available to customer specification on highlighted designs

Fiber Specifications

FIBER TYPE	INCOMING ATTENUATION (DB/KM)					
	850 NM	1300 NM	1310 NM	1383 NM	1550 NM	1625 NM
Single-mode	—	—	0.35	0.35	0.24	0.20
Non Zero Dispersion Shifted	—	—	—	—	0.25	0.25
Low Bend	—	—	0.35	0.35	0.20	0.23
Multimode 50/125	2.5	0.8	—	—	—	—
Multimode 62.5/125	3.0	0.7	—	—	—	—



Please contact your AFL Sales Representative for information about our other products or services.

**FIBER OPTIC CABLE
(OPGW, ADSS, Loose Tube)**



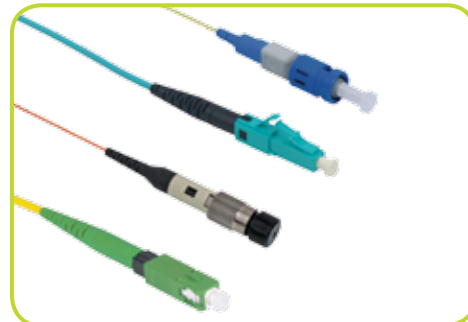
**TEST AND INSPECTION
EQUIPMENT**



**FUSION SPLICING
SYSTEMS AND ACCESSORIES**

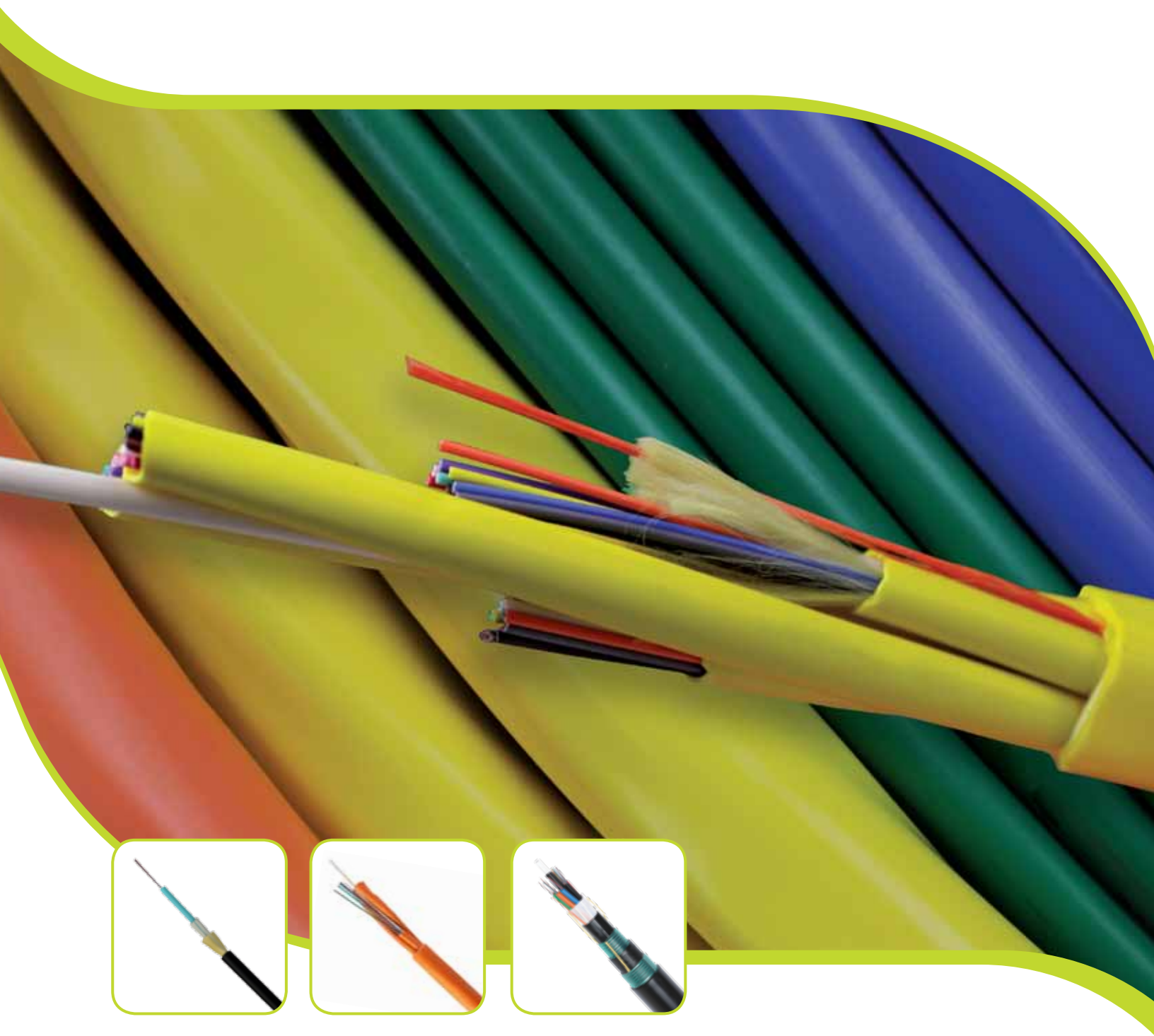


**FIELD-INSTALLABLE
CONNECTORS**



Along with a broad range of products, we also offer professional training through The Light Brigade. Over 40,000 people have completed a Light Brigade training course making us the leading fiber optic training provider in the world.





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