



Fiber Optic Cable

Interconnect

Indoor

Indoor/Outdoor

Outdoor

MicroCore®

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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 = 50µm MM 6 = 62.5µm MM 9 = Single-mode L = 10G 300m 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 = 600µm Tight Buffer 8 = Medium Strip B = Bare G = Elastomer over 250µm H = Elastomer over 500µm U = 500µm 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 Telecommunications representative for more details

Cable Print Examples



AFL Standard Print

AFL TELECOMMUNICATIONS OPTICAL CABLE 1-800-AFL-FIBER 50/125 12 FIBER (UL) TYPE OFNR c(UL) RoHS MM/YY 00000 METERS REEL NUMBER

Generic Print

OPTICAL FIBER CABLE 50/125 12 FIBER E121250 TYPE OFNR (UL) c(UL) RoHS-COMPLIANT MM/YY 00000 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 1000, 2000 and 3000 foot lengths, 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
- Working 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 1000, 2000 and 3000 feet lengths, 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 MDU's
- Short to medium length cable runs between buildings

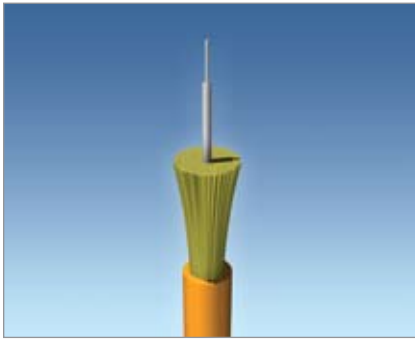


Ordering Information

Add suffix "-XMFBOX" 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, 3mm	1, 2, 3
2	Zipcord, 3mm	1, 2
2	Dual-Link (Round), 4.8mm	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 inter-connect applications. AFL Telecommunications 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 Telecommunications 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 900µm material without stripping the fiber's 250µm coating. Compliant with Directive 2002/95/EC (RoHS).

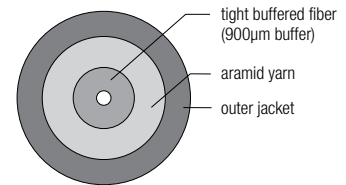
Features

- 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

PART #	FIBER COUNT	NOMINAL DIAMETER INCHES (MM)	WEIGHT		TENSION		BENDING RADIUS		TEMPERATURE RANGE		
			RISER	PLENUM	LBS (N)		INCHES (CM)		OPERATING/ INSTALLATION	STORAGE	
			LBS/1000FT (KG/KM)	LBS/1000FT (KG/KM)	INSTALLATION	LONG TERM	INSTALLATION	LONG TERM			
PLENUM	SP001 ★301001	1	0.11 (2.9)	5 (7)	6 (9)	119(530)	60 (267)	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)	3 (5)	5 (7)	119 (530)	60 (267)	2.0 (5.0)	1.2 (3.0)		
	SP001 ★201001	1	0.08 (2.0)	3 (4)	3 (5)	64 (285)	32 (142)	2.0 (5.0)	1.2 (3.0)		
	SP001 ★161001	1	0.06 (1.6)	2 (2)	2 (3)	48 (213)	24 (106)	2.0 (5.0)	1.2 (3.0)		
RISER	SA001 ★301001	1	0.11 (2.9)	5 (7)	6 (9)	119(530)	60 (267)	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)	5 (7)	119 (530)	60 (267)	2.0 (5.0)	1.2 (3.0)		
	SR001 ★201001	1	0.08 (2.0)	3 (4)	3 (5)	64 (285)	32 (142)	2.0 (5.0)	1.2 (3.0)		
	SR001 ★161001	1	0.06 (1.6)	2 (2)	2 (3)	48 (213)	24 (106)	2.0 (5.0)	1.2 (3.0)		
LSZH	SE001 ★30100E	1	0.11 (2.9)	5 (7)	6 (9)	119(530)	60 (267)	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)	5 (7)	119 (530)	60 (267)	2.0 (5.0)	1.2 (3.0)		
	SE001 ★20100E	1	0.08 (2.0)	3 (4)	3 (5)	64 (285)	32 (142)	2.0 (5.0)	1.2 (3.0)		

★ Please specify fiber type when ordering (see below)

- 1 = 100/140µm multimode fiber
- 5 = 50/125µm multimode GIGA-Link™ 600
- 7 = 50/125µm multimode GIGA-Link™ 2000
- 6 = 62.5/125µm multimode GIGA-Link™ 300
- 8 = 62.5/125µm multimode GIGA-Link™ 1000
- 9 = 9/125µm single-mode
- L = 50/125µm 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	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)	
	850NM	1300NM	1550NM	850NM	1300NM		850NM	1300NM	850NM	1300NM
(6) 62.5 Giga-Link™ 300	3.5	1.2	N/A	200	600	N/A	300	550	32	—
(8) 62.5 Giga-Link™ 1000	3.5	1.2	N/A	350	600	N/A	500	1000	65	—
(5) 50 Giga-Link™ 600	3.5	1.5	N/A	500	500	N/A	600	600	82	—
(7) 50 Giga-Link™ 2000	3.5	1.2	N/A	500	800	N/A	750	2000	110	—
(A) 50 Laser-Link 150	3.0	1.2	N/A	700	500	950	800	550	150	—
(L) 50 Laser-Link 300	3.0	1.2	N/A	1500	500	2000	1000	550	300	—
(C) 50 Laser-Link 550	3.0	1.2	N/A	4700	550	3500	1040	550	550	—
(K) SM Futureguide SR-15e Bend Insensitive	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5000	N/A	10,000
(9) SM	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

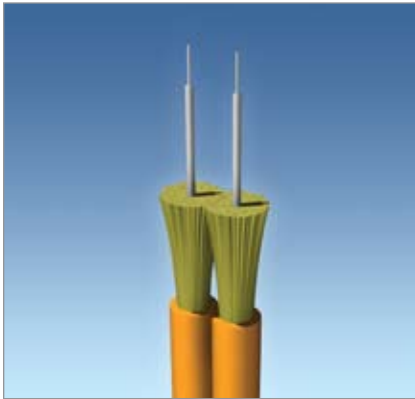
Maximum Cable Length - Reel Size

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 part 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 part number for 3,000 feet of SP001*301001 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.



Zipcord & Dual-link Cable

Zipcord and DUAL-link cables are available to 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 Telecommunications 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).

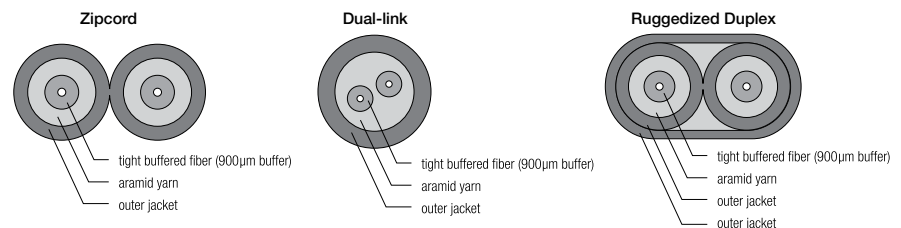
Applications

- 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

Features

- Print legend customization
- Jacket color (12 standard colors available)
- Tight Buffer strippability (easy strip option allows removal of up to 1 meter of 900µm material without stripping the fiber's 250µm 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)

Cable Components



Mechanical Data

CABLE TYPE	PART #			FIBER COUNT	NOMINAL DIAMETER	WEIGHT		TENSION		BENDING RADIUS		TEMPERATURE RANGE		
	RISER	PLENUM	LSZH			INCHES (mm)	RISER	PLENUM	LBS (N)		INCHES (CM)		OPERATING/ INSTALLATION	STORAGE
							LBS/ 1000FT (kg/km)	LBS/ 1000FT (kg/km)	INSTALL- ATION	LONG TERM	INSTALL- ATION	LONG TERM		
Zipcord	ZA002★301001	ZP002★301001	ZE002★30100E	2	0.11 x 0.22 (2.9 x 6.0)	10 (15)	12 (18)	239 (1063)	119 (529)	2.0 (5.0)	1.2 (3.0)	PLENUM: 0°C to +70°C RISER: -20°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)	239 (1063)	119 (529)	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)	95 (423)	48 (213)	2.0 (5.0)	1.2 (3.0)			
	ZR002★161001	ZP002★161001	ZE002★20100E	2	0.06 x 0.12 (1.6 x 3.2)	4 (6)	7 (6)	64 (285)	32 (142)	2.0 (5.0)	1.2 (3.0)			
DUAL-Link	DA002★481001	DP002★481001	DE002★48100E	2	0.19 (4.8)	13 (20)	17 (20)	214 (952)	107 (952)	3.1 (7.2)	2.0 (7.2)	PLENUM: 0°C to +70°C RISER: -20°C to +70°C	-40°C to +75°C	
	DR002★281001	DP002★281001	DE002★28100E	2	0.11 (2.8)	5 (7)	6 (9)	119 (529)	60 (267)	2.0 (5.0)	1.2 (3.0)			
	DR002★241001	DP002★241001	DE002★24100E	2	0.094 (2.4)	3 (5)	5 (7)	100 (445)	50 (222)	2.0 (5.0)	1.2 (3.0)			
Ruggedized Duplex	RR002★301001	DP002★241001	DE002★24100E	2	0.185 x 0.30 (4.7 x 7.6)	34 (50)	—	400 (1780)	200 (890)	2.8 (7.1)	1.9 (4.7)	PLENUM: 0°C to +70°C RISER: -20°C to +70°C	-40°C to +75°C	

★ Please specify fiber type when ordering (see below)

5 = 50/125µm multimode GIGA-Link™ 600

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

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

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

Contact Customer Service for special fiber types/performance needs

9 = 9/125µm single-mode

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

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

Zipcord & Dual-link Cable

Specifications

CORE SIZE/ FIBER TYPE	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)	
	850NM	1300NM	1550NM	850NM	1300NM		850NM	1300NM	850NM	1300NM
(6) 62.5 Giga-Link™ 300	3.5	1.2	N/A	200	600	N/A	300	550	32	—
(8) 62.5 Giga-Link™ 1000	3.5	1.2	N/A	350	600	N/A	500	1000	65	—
(5) 50 Giga-Link™ 600	3.5	1.5	N/A	500	500	N/A	600	600	82	—
(7) 50 Giga-Link™ 2000	3.5	1.2	N/A	500	800	N/A	750	2000	110	—
(A) 50 Laser-Link 150	3.0	1.2	N/A	700	500	950	800	550	150	—
(L) 50 Laser-Link 300	3.0	1.2	N/A	1500	500	2000	1000	550	300	—
(C) 50 Laser-Link 550	3.0	1.2	N/A	4700	550	3500	1040	550	550	—
(K) SM Futureguide SR-15e Bend Insensitive	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5000	N/A	10,000
(9) SM	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

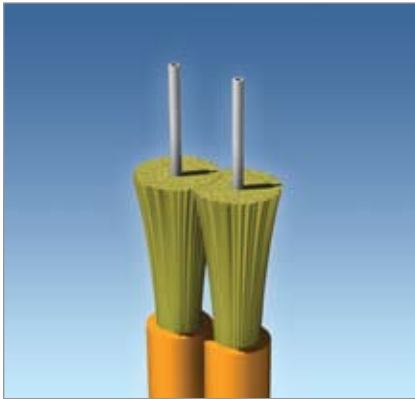
Maximum Cable Length - Reel Size

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 part 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—3MFBOX

Would be the resulting part number for 3,000 feet of ZA002*301001 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.



250µm Fan-out (Furcation) Tubing

AFL Telecommunications 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
- 380/900µm 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)

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

Applications

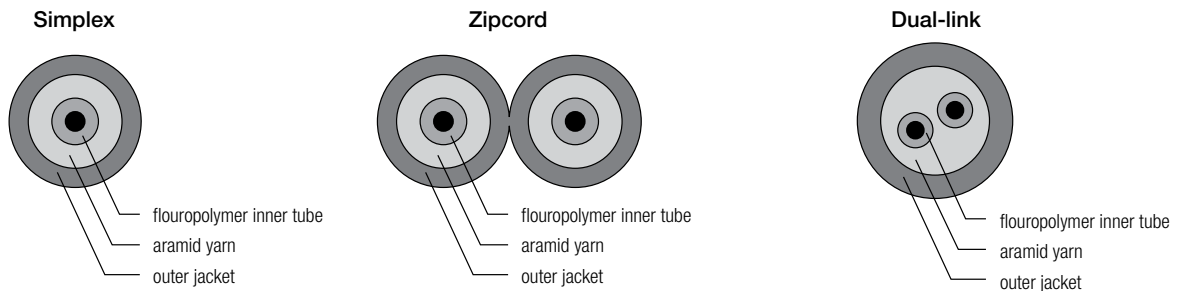
- Ribbon and Trunk cable fan-out to single fiber connections

Tubing Diameters Available

ID	OD	MATERIAL
350µm	900µm	PVDF
500µm	900µm	PVDF
1000µm	1400µm	PVDF
1.2mm	1.6mm	PVC

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

Tubing Components



Mechanical Data

ITEM NUMBER	TUBE COUNT	NOMINAL DIAMETER Inches (mm)	WEIGHT lbs/1,000ft (kg/km)	TENSION lbs (N)		BENDING RADIUS inches (cm)	
				Installation	Long Term	Installation	Long Term
Simplex							
SF000★301000	1	0.11 (2.9)	5 (7)	100 (445)	50 (222)	2.0 (5.0)	1.25 (3.17)
SF000★241000	1	0.09 (2.4)	3 (5)	100 (445)	50 (222)	2.0 (5.0)	1.25 (3.17)
SF000★201000	1	0.08 (2.0)	3 (4)	60 (267)	30 (133)	2.0 (5.0)	1.25 (3.17)
SF000★161000	1	0.06 (1.6)	2 (2)	60 (267)	30 (133)	2.0 (5.0)	1.25 (3.17)
Zipcord							
ZF000★301000	2	0.11 x 0.22 (2.9 x 6.0)	10 (15)	200 (900)	100 (445)	2.0 (5.0)	1.25 (3.17)
ZF000★241000	2	0.09 x 0.19 (2.4 x 4.8)	7 (10)	120 (530)	60 (267)	2.0 (5.0)	1.25 (3.17)
ZF000★201000	2	0.08 x 0.16 (2.0 x 2.4)	5 (8)	120 (530)	60 (267)	2.0 (5.0)	1.25 (3.17)
ZF000★161000	2	0.06 x 0.12 (1.6 x 3.2)	4 (6)	120 (530)	60 (267)	2.0 (5.0)	1.25 (3.17)
Dual-Link							
DF000★481000	2	0.19 (4.8)	13 (20)	200 (900)	100 (445)	2.0 (5.0)	1.25 (3.17)
DF000★281000	2	0.11 (2.8)	5 (7)	100 (445)	50 (222)	2.0 (5.0)	1.25 (3.17)
DF000★241000	2	0.094 (2.4)	3 (5)	90 (400)	45 (222)	2.0 (5.0)	1.25 (3.17)

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



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.

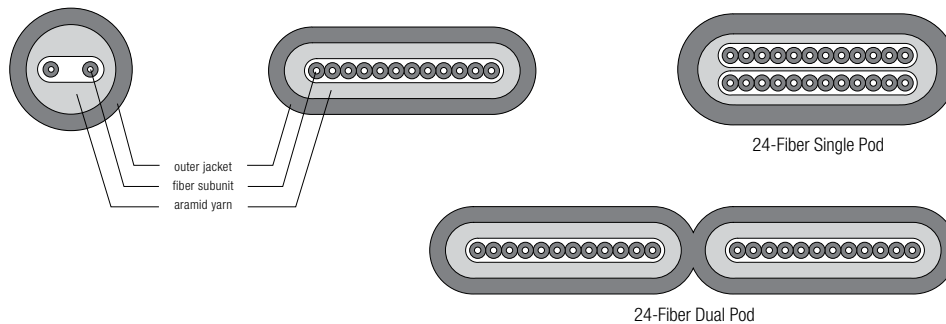
Features

- 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	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)	
	850NM	1300NM	1550NM	850NM	1300NM		850NM	1300NM	850NM	1300NM
(6) 62.5 Giga-Link™ 300	3.5	1.2	N/A	200	600	N/A	300	550	32	—
(8) 62.5 Giga-Link™ 1000	3.5	1.2	N/A	350	600	N/A	500	1000	65	—
(5) 50 Giga-Link™ 600	3.5	1.5	N/A	500	500	N/A	600	600	82	—
(7) 50 Giga-Link™ 2000	3.5	1.2	N/A	500	800	N/A	750	2000	110	—
(A) 50 Laser-Link 150	3.0	1.2	N/A	700	500	950	800	550	150	—
(L) 50 Laser-Link 300	3.0	1.2	N/A	1500	500	2000	1000	550	300	—
(C) 50 Laser-Link 550	3.0	1.2	N/A	4700	550	3500	1040	550	550	—
(K) SM Futureguide SR-15e Bend Insensitive	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5000	N/A	10,000
(9) SM	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	PART NUMBER				FIBER COUNT	NOMINAL DIAMETER	WEIGHT	TENSION		BENDING RADIUS		TEMPERATURE RANGE	
	PLENUM (PVDF)	PLENUM (PVC)	RISER	LSZH				LBS (N)		INCHES (CM)		OPERATING/INSTALLATION	STORAGE
								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)	179 (797)	90 (400)	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)	179 (797)	90 (400)	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)	179 (797)	90 (400)	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)	179 (797)	90 (400)	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)	179 (797)	90 (400)	2.7 (6.9)	1.8 (4.6)		
(dual-pod)	WP008★241012	—	WR008★241012	WE008★241012	8	0.08 x 0.32 (2.1 x 8.2)	15 (22)	358 (1593)	179 (797)	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)	358 (1593)	179 (797)	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)	358 (1593)	179 (797)	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)	358 (1593)	179 (797)	2.7 (6.9)	1.8 (4.6)		
ROUND RIBBON (simplex)	WP002★301012	—	WR002★301012	WE002★301012	2	0.11 (2.9)	5 (7)	119 (529)	60 (267)	2.0 (5.0)	1.2 (3.0)		
	WP004★301012	—	WR004★301012	WE004★301012	4	0.11 (2.9)	5 (7)	119 (529)	60 (267)	2.0 (5.0)	1.2 (3.0)		

★ Please specify fiber type when ordering (see below)

5 = 50/125µm multimode GIGA-Link™ 600

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

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

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

9 = 9/125µm single-mode

L = 50/125µm 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 & Circular Premise Cable

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

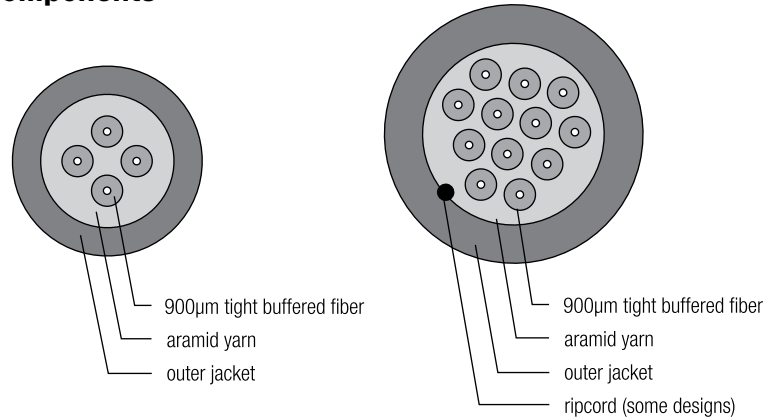
Applications

- Connectorized communications cables with both send-and-recv and send-and-recv 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	PART NUMBER		FIBER COUNT	NOMINAL DIAMETER	WEIGHT		TENSION		BENDING RADIUS		TEMPERATURE RANGE		
	RISER	PLENUM			INCHES (MM)	RISER	PLENUM	LBS (N)		INCHES (CM)		OPERATING/ INSTALLATION	STORAGE
						LBS/ 1000FT (KG/KM)	LBS/ 1000FT (KG/KM)	INSTALLATION	LONG TERM	INSTALLATION	LONG TERM		
QUAD-Link	UA004★481001	UP004★481001	4	0.19 (4.8)	17 (25)	20 (30)	286 (1272)	143 (636)	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)	286 (1272)	143 (636)	3.0 (7.2)	2.0 (5.0)			
	CR008★481001	CP008★481001	8	0.19 (4.8)	13 (19)	17 (25)	239 (1063)	119 (529)	3.0 (7.2)	2.0 (5.0)			
	CR012★551001	CP012★551001	12	0.22 (5.5)	17 (25)	20 (30)	239 (1063)	119 (529)	3.5 (8.3)	2.5 (5.5)			
	CR018★801001	CP018★761001	18	0.32 (8.0)	34 (50)	38 (56)	286 (1272)	143 (636)	5.0 (12.0)	3.2 (8.0)			
	CR024★891001	CP024★841001	24	0.34 (8.5)	41 (61)	46 (69)	641 (2852)	321 (1428)	5.5 (12.9)	3.5 (8.6)			

★ Please specify fiber type when ordering (see below)

5 = 50/125µm multimode GIGA-Link™ 600

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

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

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

9 = 9/125µm single-mode

L = 50/125µm 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 & Circular Premise Cable

Specifications

CORE SIZE/ FIBER TYPE	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)	
	850NM	1300NM	1550NM	850NM	1300NM		850NM	1300NM	850NM	1300NM
(6) 62.5 Giga-Link™ 300	3.5	1.2	N/A	200	600	N/A	300	550	32	—
(8) 62.5 Giga-Link™ 1000	3.5	1.2	N/A	350	600	N/A	500	1000	65	—
(5) 50 Giga-Link™ 600	3.5	1.5	N/A	500	500	N/A	600	600	82	—
(7) 50 Giga-Link™ 2000	3.5	1.2	N/A	500	800	N/A	750	2000	110	—
(A) 50 Laser-Link 150	3.0	1.2	N/A	700	500	950	800	550	150	—
(L) 50 Laser-Link 300	3.0	1.2	N/A	1500	500	2000	1000	550	300	—
(C) 50 Laser-Link 550	3.0	1.2	N/A	4700	550	3500	1040	550	550	—
(K) SM Futureguide SR-15e Bend Insensitive	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5000	N/A	10,000
(9) SM	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 part 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 part number for 3,000 feet of UA004*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.



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.

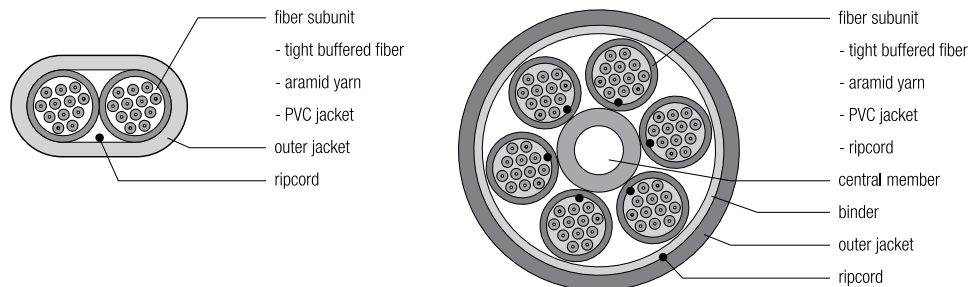
Applications

- 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	PART NUMBER		FIBER COUNT	NOMINAL DIAMETER INCHES (MM)	WEIGHT		TENSION		BENDING RADIUS	
	RISER	PLENUM			RISER	PLENUM	LBS (N)		INCHES (CM)	
					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)	537 (2390)	270 (1202)	8.3 (20.0)	5.5 (13.3)
	CR024★441001	CP024★441001	24	0.55 (13.3)	121 (180)	134 (200)	716 (3186)	360 (1602)	8.3 (20.0)	5.5 (13.3)
	CR036★441001	CP036★441001	36	0.62 (15.6)	147 (220)	171 (255)	1074 (4779)	540 (2403)	9.2 (23.4)	6.2 (15.6)
CPC with 12 Fiber Subunits	CR024★551001	CP024★551001	24	.30 x .52 (7.6 x 13.2)	57 (86)	62 (92)	300 (1334)	150 (667)	5.0 (12.0)	4.0 (10.0)
	CR036★551001	CP036★551001	36	0.61 (15.4)	120 (180)	134 (200)	717 (3190)	357 (1589)	9.1 (23.1)	6.1 (15.4)
	CR048★551001	CP048★551001	48	0.61 (15.4)	120 (180)	134 (200)	956 (4254)	476 (2118)	9.1 (23.1)	6.1 (15.4)
	CR060★551001	CP060★551001	60	0.69 (17.6)	147 (220)	171 (255)	1195 (1124)	595 (2647)	10.4 (26.4)	6.9 (17.6)
	CR072★551001	CP072★551001	72	0.76 (19.3)	184 (275)	211 (315)	1434 (6381)	714 (3177)	11.4 (29.0)	7.6 (19.3)
	CR096★551001	CP096★551001	96	0.90 (22.8)	281 (420)	295 (440)	1912 (8508)	952 (7616)	13.5 (34.2)	9.0 (22.8)
	CR144★551001	CP144★551001	144	1.0 (25.4)	288 (430)	302 (450)	2868 (12,762)	1428 (6354)	15.0 (38.1)	10.0 (25.4)

★Please specify fiber type when ordering (see below)

5 = 50/125µm multimode GIGA-Link™ 600
 7 = 50/125µm multimode GIGA-Link™ 2000
 6 = 62.5/125µm multimode GIGA-Link™ 300
 8 = 62.5/125µm multimode GIGA-Link™ 1000
 9 = 9/125µm single-mode
 L = 50/125µm 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

CABLE TYPE	TEMPERATURE RANGE	
	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

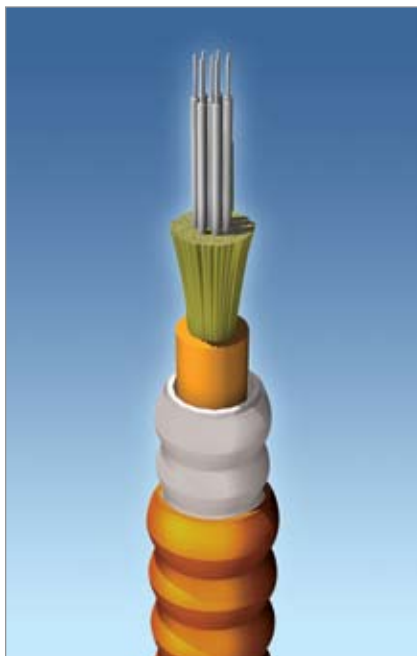
Specifications

CORE SIZE/ FIBER TYPE	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)	
	850NM	1300NM	1550NM	850NM	1300NM		850NM	1300NM	850NM	1300NM
(6) 62.5 Giga-Link™ 300	3.5	1.2	N/A	200	600	N/A	300	550	32	—
(8) 62.5 Giga-Link™ 1000	3.5	1.2	N/A	350	600	N/A	500	1000	65	—
(5) 50 Giga-Link™ 600	3.5	1.5	N/A	500	500	N/A	600	600	82	—
(7) 50 Giga-Link™ 2000	3.5	1.2	N/A	500	800	N/A	750	2000	110	—
(A) 50 Laser-Link 150	3.0	1.2	N/A	700	500	950	800	550	150	—
(L) 50 Laser-Link 300	3.0	1.2	N/A	1500	500	2000	1000	550	300	—
(C) 50 Laser-Link 550	3.0	1.2	N/A	4700	550	3500	1040	550	550	—
(K) SM Futureguide SR-15e Bend Insensitive	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5000	N/A	10,000
(9) SM	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)



Interlocking Armor

Interlocking Armor can be added to any of AFL's Premise Cables. Both Aluminum and Steel Interlocking Armor options are available in almost any size, with or without an outer jacket. Riser, Plenum, LSZH jacketed armor can be ordered in a variety of colors. Plenum and Riser versions meet the requirements of NEC 770. Indoor/Outdoor grades are also available.

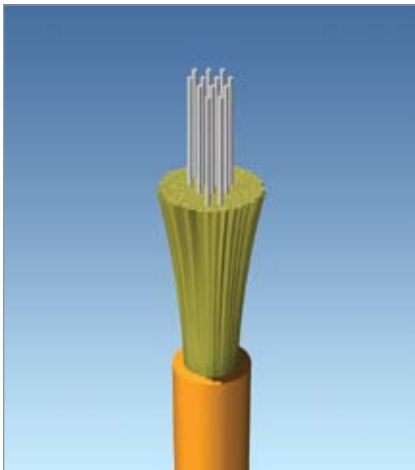
Jacketed Aluminum is a popular design because it provides the best balance of ruggedness, flexibility and low weight. Custom print can be applied to these cables also.

Armored distribution cables are easy to install, and do not require the use of a conduit. This expedites the installation process and can save space in a cable tray.

Armored cables are suitable for use for rugged environments, where crush and cut resistance are important. Please contact your AFL representative for armor specifications for a certain cable design.

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



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 250um fibers and aramid strands are packaged in a high performance PVC jacket. Fiber counts from 8 to 24 fibers are available. Both simplex and zipcord designs are available.

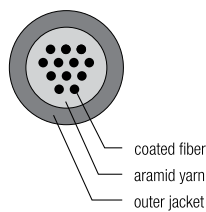
Features

- Tested to meet or exceed GR-409-CORE
- Compliant to Directive 2002/95/EC (RoHS)
- 3.0mm Outer Diameter for Round Boot MTP Cables

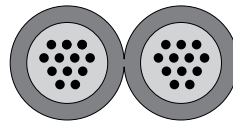
Applications

- Building Interconnections
- Data Centers and Central Offices
- Anywhere MTP connections can be used

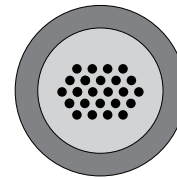
Cable Components



8 or 12 fiber



16 or 24 fiber



16 or 24 fiber

Mechanical Data

CABLE TYPE	PART NUMBER	FIBER COUNT	NOMINAL DIAMETER	WEIGHT	TENSION		BENDING RADIUS	
			INCHES (MM)		LBS/1000FT (KG/KM)	LBS (N)	INCHES (CM)	INCHES (CM)
Simplex	SP008*30100B	8	0.12 (3.0)	5.8 (8.6)	100 (445)	50 (222)	1.8 (4.5)	1.2 (3.0)
	SP012*30100B	12	0.12 (3.0)	6.0 (9.0)	100 (445)	50 (222)	1.8 (4.5)	1.2 (3.0)
	SR016*45100B	16	0.18 (4.5)	9.6 (15.4)	100 (445)	50 (222)	2.7 (6.8)	1.8 (4.5)
	SR024*45100B	24	0.18 (4.5)	13.2 (19.6)	100 (445)	50 (222)	2.7 (6.8)	1.8 (4.5)
Zipcord	ZP016*30100B	16	0.12 (3.0)	11.8 (17.6)	200 (890)	100 (445)	1.8 (4.5)	1.2 (3.0)
	ZP024*30100B	24	0.12 (3.0)	12.4 (18.4)	200 (890)	100 (445)	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

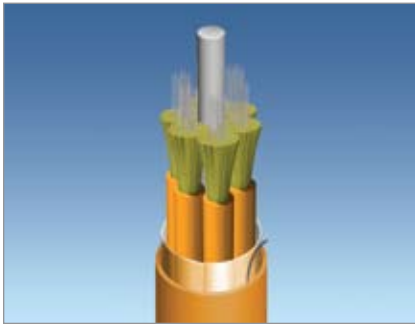
Specifications

CORE SIZE/ FIBER TYPE	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)	
	850NM	1300NM	1550NM	850NM	1300NM		850NM	1300NM	850NM	1300NM
(6) 62.5 Giga-Link™ 300	3.5	1.2	N/A	200	600	N/A	300	550	32	—
(8) 62.5 Giga-Link™ 1000	3.5	1.2	N/A	350	600	N/A	500	1000	65	—
(5) 50 Giga-Link™ 600	3.5	1.5	N/A	500	500	N/A	600	600	82	—
(7) 50 Giga-Link™ 2000	3.5	1.2	N/A	500	800	N/A	750	2000	110	—
(A) 50 Laser-Link 150	3.0	1.2	N/A	700	500	950	800	550	150	—
(L) 50 Laser-Link 300	3.0	1.2	N/A	1500	500	2000	1000	550	300	—
(C) 50 Laser-Link 550	3.0	1.2	N/A	4700	550	3500	1040	550	550	—
(K) SM Futureguide SR-15e Bend Insensitive	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5000	N/A	10,000
(9) SM	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 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 250µm colored fibers and aramid strength members enclosed by a high performance PVC jacket. The sub-units meet the interconnect standards of Telcordia GR-409, while the distribution cable meets the plenum standards.

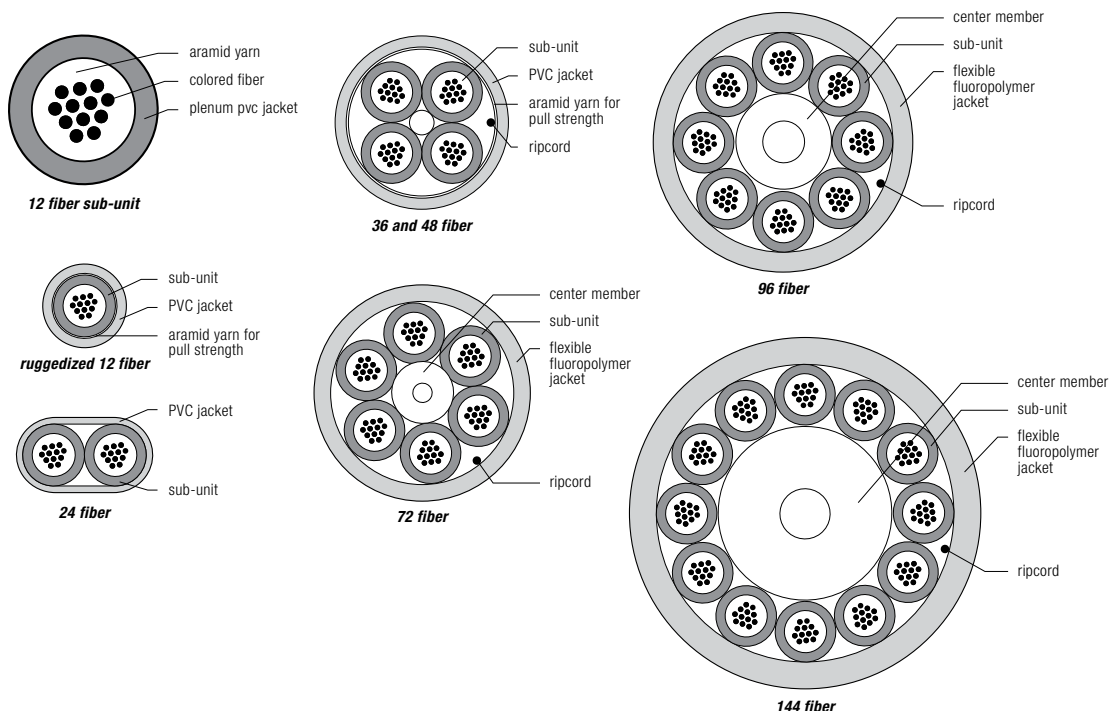
Features

- Tested to meet or exceed EIA/TIA 568-B3, Telcordia GR-409-CORE and ANSI/ICEA S-83-596
- Flexible dielectric FRP central strength member in four position, 24 fiber designs and higher
- 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)

Applications

- Applications requiring plenum, riser or general purpose listings
- 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

Cable Components



Sub-unitized Premise MicroCore® Cable

Mechanical Data

PART #		FIBER COUNT	NOMINAL DIAMETER	WEIGHT	TENSION		BENDING RADIUS		TEMPERATURE RANGE	
LSZH	PLENUM				LBS (N)		INCHES (CM)		OPERATING/INSTALLATION	STORAGE
			INCHES (MM)	LBS/1000FT (KG/KM)	INSTALLATION	LONG TERM	INSTALLATION	LONG TERM		
GE012★31100B	GP012★31100B	12	0.18 (4.5)	15 (22)	100 (445)	50 (222)	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)	100 (445)	50 (222)	2.7 (6.8)	1.8 (4.5)		
GE024★31100B-4	GP024★31100B-4	24	0.38 (9.7)	54 (80)	300 (1335)	150 (667)	5.7 (15.5)	3.8 (9.7)		
GE036★31100B	GP036★31100B	36	0.38 (9.7)	54 (80)	300 (1335)	150 (667)	5.7 (15.5)	3.8 (9.7)		
GE048★31100B	GP048★31100B	48	0.38 (9.7)	54 (80)	300 (1335)	150 (667)	5.7 (15.5)	3.8 (9.7)		
GE072★31100B	GP072★31100B	72	0.44 (11.1)	84 (125)	300 (1335)	150 (667)	6.6 (16.8)	4.4 (11.1)		
GE096★31100B	GP096★31100B	96	0.52 (13.3)	118 (175)	300 (1335)	150 (667)	7.8 (19.8)	5.2 (13.3)		
GE144★31100B	GP144★31100B	144	0.69 (17.4)	155 (230)	300 (1335)	150 (667)	10.4 (26.3)	6.9 (17.4)		

★ Please specify fiber type when ordering (see below)

5 = 50/125µm multimode GIGA-Link™ 600

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

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

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

9 = 9/125µm single-mode

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

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

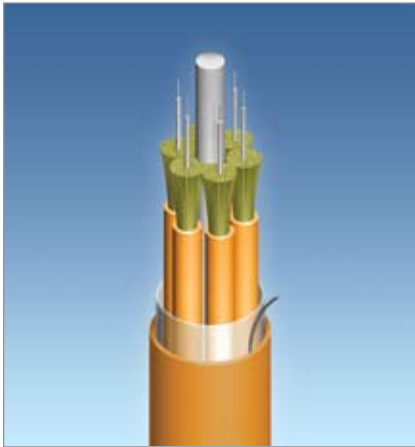
Contact Customer Service for special fiber types/performance needs

Specifications

CORE SIZE/ FIBER TYPE	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)	
	850NM	1300NM	1550NM	850NM	1300NM		850NM	1300NM	850NM	1300NM
	(6) 62.5 Giga-Link™ 300	3.5	1.2	N/A	200		600	N/A	300	550
(8) 62.5 Giga-Link™ 1000	3.5	1.2	N/A	350	600	N/A	500	1000	65	—
(5) 50 Giga-Link™ 600	3.5	1.5	N/A	500	500	N/A	600	600	82	—
(7) 50 Giga-Link™ 2000	3.5	1.2	N/A	500	800	N/A	750	2000	110	—
(A) 50 Laser-Link 150	3.0	1.2	N/A	700	500	950	800	550	150	—
(L) 50 Laser-Link 300	3.0	1.2	N/A	1500	500	2000	1000	550	300	—
(C) 50 Laser-Link 550	3.0	1.2	N/A	4700	550	3500	1040	550	550	—
(K) SM Futureguide SR-15e Bend Insensitive	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5000	N/A	10,000
(9) SM	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 Telecommunications can be terminated for fanout assemblies. Breakout cable is available in counts of 2-24 fibers.

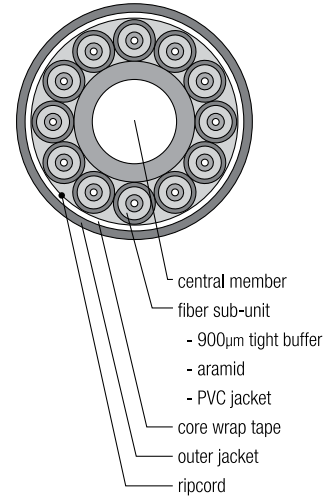
Applications

- 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	PART NUMBER	FIBER COUNT	NOMINAL DIAMETER	WEIGHT	TENSION		BENDING RADIUS	
					LBS (N)		INCHES (CM)	
					INSTALLATION	LONG TERM	INSTALLATION	LONG TERM
Riser Breakout Cable	BR004★241001	4	0.33 (8.5)	44 (65)	448 (2000)	225 (1000)	5.1 (12.8)	3.4 (8.5)
	BR006★241001	6	0.40 (10.1)	64 (95)	674 (3000)	337 (1500)	6.0 (15.2)	4.0 (10.1)
	BR008★241001	8	0.46 (11.6)	84 (125)	899 (4000)	449 (2000)	6.9 (17.4)	4.6 (11.6)
	BR012★241001	12	0.58 (14.7)	138 (205)	1,398 (6000)	674 (3000)	8.7 (22.1)	5.8 (14.7)
	BR024★241001	24	0.65 (16.6)	118 (175)	600 (2670)	300 (1335)	11.4 (29.0)	7.6 (19.3)
Plenum Breakout Cable	BP004★301001	4	0.36 (9.0)	57 (85)	448 (2000)	225 (1000)	5.3 (13.5)	3.6 (9.0)
	BP006★301001	6	0.42 (10.6)	79 (118)	674 (3000)	337 (1500)	6.3 (15.9)	4.2 (10.6)
	BP008★301001	8	0.48 (12.2)	105 (156)	899 (4000)	449 (2000)	7.2 (18.3)	4.8 (12.2)
	BP012★301001	12	0.61 (15.5)	169 (252)	1,398 (6000)	674 (3000)	9.2 (23.2)	6.1 (15.5)

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

5 = 50/125µm multimode GIGA-Link™ 600
 7 = 50/125µm multimode GIGA-Link™ 2000
 6 = 62.5/125µm multimode GIGA-Link™ 300
 8 = 62.5/125µm multimode GIGA-Link™ 1000
 9 = 9/125µm single-mode
 L = 50/125µm 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

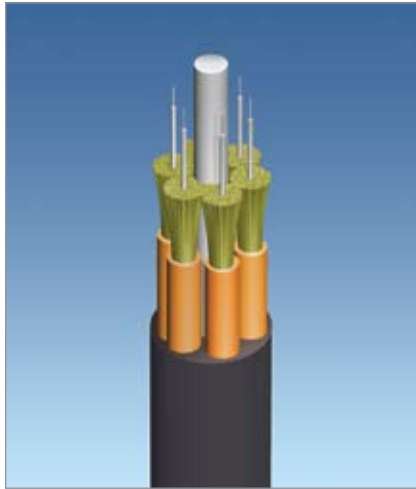
Specifications

CORE SIZE/ FIBER TYPE	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)	
	850NM	1300NM	1550NM	850NM	1300NM		850NM	1300NM	850NM	1300NM
(6) 62.5 Giga-Link™ 300	3.5	1.2	N/A	200	600	N/A	300	550	32	—
(8) 62.5 Giga-Link™ 1000	3.5	1.2	N/A	350	600	N/A	500	1000	65	—
(5) 50 Giga-Link™ 600	3.5	1.5	N/A	500	500	N/A	600	600	82	—
(7) 50 Giga-Link™ 2000	3.5	1.2	N/A	500	800	N/A	750	2000	110	—
(A) 50 Laser-Link 150	3.0	1.2	N/A	700	500	950	800	550	150	—
(L) 50 Laser-Link 300	3.0	1.2	N/A	1500	500	2000	1000	550	300	—
(C) 50 Laser-Link 550	3.0	1.2	N/A	4700	550	3500	1040	550	550	—
(K) SM Futureguide SR-15e Bend Insensitive	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5000	N/A	10,000
(9) SM	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 Telecommunications' 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 2.5mm, allowing for ease of field termination, and use water-blocking aramid which further protects the tight-buffered fiber.

Features

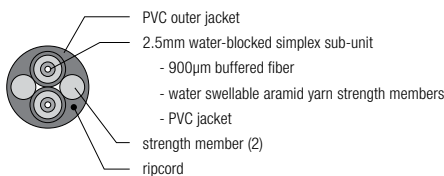
- Fungus, water and UV-resistant PVC jacket featuring SP extrusion technology
- Riser-rated with water-blocked sub-units
- Sub-units and tight buffer available in a variety of colors
- Tested to meet or exceed GR-409-CORE and ICEA-S-104-696
- Compliant to Directive 2002/95/EC (RoHS)
- MSHA approval pending

Applications

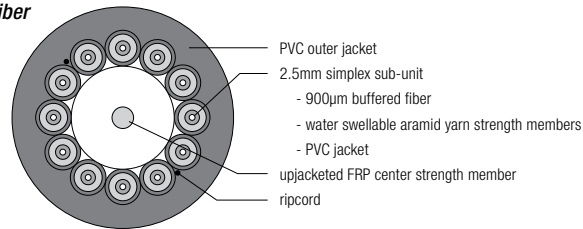
- Harsh Environment
- Mining
- Industrial
- Campus Environment

Cable Components

2-Fiber



12-Fiber



Mechanical Data

PART NUMBER	FIBER COUNT	NOMINAL DIAMETER	WEIGHT	TENSION		BENDING RADIUS	
		INCHES (MM)		LBS/1000FT (KG/KM)	LBS (N)	INCHES (CM)	INCHES (CM)
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)

2.9mm sub-units are also available.

★ Please specify fiber type when ordering (see below)

- 5 = 50/125µm multimode GIGA-Link™ 600
- 7 = 50/125µm multimode GIGA-Link™ 2000
- 6 = 62.5/125µm multimode GIGA-Link™ 300
- 8 = 62.5/125µm multimode GIGA-Link™ 1000
- 9 = 9/125µm single-mode
- L = 50/125µm 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

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

Indoor/Outdoor Breakout Cable

Specifications

CORE SIZE/ FIBER TYPE	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)	
	850NM	1300NM	1550NM	850NM	1300NM		850NM	1300NM	850NM	1300NM
(6) 62.5 Giga-Link™ 300	3.5	1.2	N/A	200	600	N/A	300	550	32	—
(8) 62.5 Giga-Link™ 1000	3.5	1.2	N/A	350	600	N/A	500	1000	65	—
(5) 50 Giga-Link™ 600	3.5	1.5	N/A	500	500	N/A	600	600	82	—
(7) 50 Giga-Link™ 2000	3.5	1.2	N/A	500	800	N/A	750	2000	110	—
(A) 50 Laser-Link 150	3.0	1.2	N/A	700	500	950	800	550	150	—
(L) 50 Laser-Link 300	3.0	1.2	N/A	1500	500	2000	1000	550	300	—
(C) 50 Laser-Link 550	3.0	1.2	N/A	4700	550	3500	1040	550	550	—
(K) SM Futureguide SR-15e Bend Insensitive	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5000	N/A	10,000
(9) SM	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

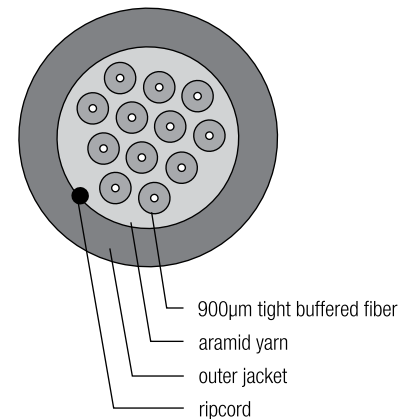
Indoor/Outdoor Tight Buffered cables are specified for campus network cabling between buildings where interbuilding lengths are short enough that the installer can recognize savings from the lower costs of terminating tight buffered cables.

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	PART NUMBER	FIBER COUNT	NOMINAL DIAMETER	WEIGHT	TENSION		BENDING RADIUS	
					LBS (N)		INCHES (CM)	
					INSTALLATION	LONG TERM	INSTALLATION	LONG TERM
Indoor/Outdoor Tight Buffered Cable	KR002★481001	2	0.19 (4.8)	14 (21)	303 (1350)	90 (400)	2.8 (7.2)	1.9 (4.8)
	KR004★481001	4	0.19 (4.8)	15 (23)	303 (1350)	90 (400)	2.8 (7.2)	1.9 (4.8)
	KR006★531001	6	0.21 (5.3)	19 (28)	303 (1350)	90 (400)	3.1 (8.0)	2.1 (5.3)
	KR008★561001	8	0.22 (5.6)	23 (33)	303 (1350)	90 (400)	3.3 (8.4)	2.2 (5.6)
	KR012★601001	12	0.24 (6.0)	26 (38)	303 (1350)	90 (400)	3.5 (9.0)	2.4 (6.0)
	KR018★801001	18	0.31 (8.0)	40 (59)	600 (2670)	180 (800)	4.7 (12.0)	3.1 (8.0)
	KR024★871001	24	0.33 (8.7)	46 (69)	600 (2670)	180 (800)	5.2 (13.1)	3.4 (8.7)

★ Please specify fiber type when ordering (see below)

5 = 50/125µm multimode GIGA-Link™ 600
 7 = 50/125µm multimode GIGA-Link™ 2000
 6 = 62.5/125µm multimode GIGA-Link™ 300
 8 = 62.5/125µm multimode GIGA-Link™ 1000
 9 = 9/125µm single-mode
 L = 50/125µm 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	MAXIMUM ATTENUATION (DB/KM)			OVERFILL LAUNCH MIN. BANDWIDTH (MHZ•KM)		EMB _c (MHZ•KM)	GIGABIT ETHERNET MIN. LINK DISTANCE (ME- TERS)		10 GIGABIT ETHERNET MIN. LINK DISTANCE (ME- TERS)	
	850NM	1300NM	1550NM	850NM	1300NM		850NM	1300NM	850NM	1300NM
(6) 62.5 Giga-Link™ 300	3.5	1.2	N/A	200	600	N/A	300	550	32	—
(8) 62.5 Giga-Link™ 1000	3.5	1.2	N/A	350	600	N/A	500	1000	65	—
(5) 50 Giga-Link™ 600	3.5	1.5	N/A	500	500	N/A	600	600	82	—
(7) 50 Giga-Link™ 2000	3.5	1.2	N/A	500	800	N/A	750	2000	110	—
(A) 50 Laser-Link 150	3.0	1.2	N/A	700	500	950	800	550	150	—
(L) 50 Laser-Link 300	3.0	1.2	N/A	1500	500	2000	1000	550	300	—
(C) 50 Laser-Link 550	3.0	1.2	N/A	4700	550	3500	1040	550	550	—
(K) SM Futureguide SR-15e Bend Insensitive	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5000	N/A	10,000
(9) SM	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 part 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—3MFB0X

Would be the resulting part number for 3,000 feet of KR002*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.



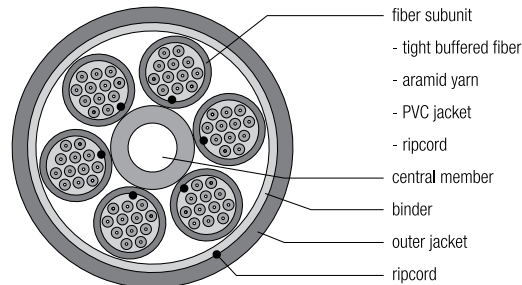
Indoor/Outdoor Multi-unit Riser Tight Buffered Cable

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-swellaible 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
- MSHA approved for mining applications
- Compliant to Directive 2002/95/EC (RoHS)

Cable Components



Mechanical Data

CABLE TYPE	PART NUMBER	FIBER COUNT	NOMINAL DIAMETER	WEIGHT	TENSION		BENDING RADIUS	
					LBS (N)		INCHES (CM)	
	RISER		INCHES (MM)	LBS/1000FT (KG/KM)	INSTALLATION	LONG TERM	INSTALLATION	LONG TERM
Indoor/Outdoor Tight Buffered Cable	KR024★601001	24	0.67 (16.9)	169 (252)	1078 (4800)	525 (2335)	10.0 (25.3)	6.7 (16.9)
	KR036★601001	36	0.67 (16.9)	178 (265)	1348 (6000)	556 (2475)	10.0 (25.3)	6.7 (16.9)
	KR048★601001	48	0.67 (16.9)	187 (278)	1618 (7200)	584 (2600)	10.0 (25.3)	6.7 (16.9)
	KR060★601001	60	0.76 (19.2)	197 (293)	2023 (9000)	747 (3325)	11.3 (28.8)	7.6 (19.2)
	KR072★601001	72	0.81 (20.7)	233 (346)	2360 (10,500)	876 (3900)	12.2 (31.0)	8.1 (20.7)

★ Please specify fiber type when ordering (see below)

- 5 = 50/125µm multimode GIGA-Link™ 600
- 7 = 50/125µm multimode GIGA-Link™ 2000
- 6 = 62.5/125µm multimode GIGA-Link™ 300
- 8 = 62.5/125µm multimode GIGA-Link™ 1000
- 9 = 9/125µm single-mode
- L = 50/125µm 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	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)	
	850NM	1300NM	1550NM	850NM	1300NM		850NM	1300NM	850NM	1300NM
(6) 62.5 Giga-Link™ 300	3.5	1.2	N/A	200	600	N/A	300	550	32	—
(8) 62.5 Giga-Link™ 1000	3.5	1.2	N/A	350	600	N/A	500	1000	65	—
(5) 50 Giga-Link™ 600	3.5	1.5	N/A	500	500	N/A	600	600	82	—
(7) 50 Giga-Link™ 2000	3.5	1.2	N/A	500	800	N/A	750	2000	110	—
(A) 50 Laser-Link 150	3.0	1.2	N/A	700	500	950	800	550	150	—
(L) 50 Laser-Link 300	3.0	1.2	N/A	1500	500	2000	1000	550	300	—
(C) 50 Laser-Link 550	3.0	1.2	N/A	4700	550	3500	1040	550	550	—
(K) SM Futureguide SR-15e Bend Insensitive	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5000	N/A	10,000
(9) SM	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 part 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 part number for 3,000 feet of KR002*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.



Indoor/Outdoor Plenum Tight Buffered Cable

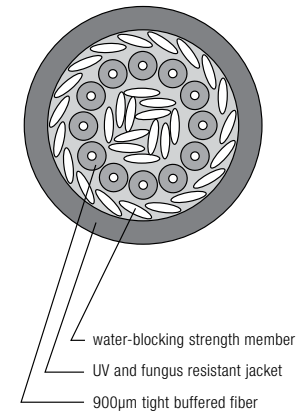
Indoor/Outdoor Tight Buffered cables are specified for campus network cabling between buildings where interbuilding lengths are short enough that the installer can recognize savings from the lower costs of terminating tight buffered cables.

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	PART NUMBER	FIBER COUNT	NOMINAL DIAMETER	WEIGHT	TENSION		BENDING RADIUS	
					LBS (N)		INCHES (CM)	
					INSTALLATION	LONG TERM	INSTALLATION	LONG TERM
Indoor/Outdoor Tight Buffered Cable	KP002★481001	2	0.19 (4.8)	18 (27)	243 (1082)	121 (541)	3.8 (9.6)	1.9 (4.8)
	KP004★481001	4	0.19 (4.8)	18 (27)	243 (1082)	121 (541)	3.8 (9.6)	1.9 (4.8)
	KP006★551001	6	0.22 (5.5)	22 (33)	243 (1082)	121 (541)	4.3 (11.0)	2.2 (5.5)
	KP008★601001	8	0.24 (6.0)	26 (38)	388 (1726)	194 (863)	4.7 (12.0)	2.4 (6.0)
	KP012★701001	12	0.26 (7.0)	34 (50)	388 (1726)	194 (863)	5.5 (14.0)	2.8 (7.0)
	KP018★781001	18	0.28 (7.8)	40 (60)	398 (1774)	199 (887)	6.1 (15.6)	3.1 (7.8)
	KP024★851001	24	0.33 (8.5)	54 (80)	398 (1774)	199 (887)	6.7 (17.0)	3.4 (8.5)

★ Please specify fiber type when ordering (see below)

- 5 = 50/125µm multimode GIGA-Link™ 600
- 7 = 50/125µm multimode GIGA-Link™ 2000
- 6 = 62.5/125µm multimode GIGA-Link™ 300
- 8 = 62.5/125µm multimode GIGA-Link™ 1000
- 9 = 9/125µm single-mode
- L = 50/125µm 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	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)	
	850NM	1300NM	1550NM	850NM	1300NM		850NM	1300NM	850NM	1300NM
(6) 62.5 Giga-Link™ 300	3.5	1.2	N/A	200	600	N/A	300	550	32	—
(8) 62.5 Giga-Link™ 1000	3.5	1.2	N/A	350	600	N/A	500	1000	65	—
(5) 50 Giga-Link™ 600	3.5	1.5	N/A	500	500	N/A	600	600	82	—
(7) 50 Giga-Link™ 2000	3.5	1.2	N/A	500	800	N/A	750	2000	110	—
(A) 50 Laser-Link 150	3.0	1.2	N/A	700	500	950	800	550	150	—
(L) 50 Laser-Link 300	3.0	1.2	N/A	1500	500	2000	1000	550	300	—
(C) 50 Laser-Link 550	3.0	1.2	N/A	4700	550	3500	1040	550	550	—
(K) SM Futureguide SR-15e Bend Insensitive	N/A	0.5	0.5	N/A	N/A	N/A	N/A	5000	N/A	10,000
(9) SM	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 part 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 part 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.



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.

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
- Tested to meet or exceed EIA/TIA 568-B3, Telecordia GR-409-CORE, ANSI/ICEA S-83-596, ANSI/ICEA S-104
- Two and four-fiber cables designed to meet MIL-PRF-85045

Temperature Range

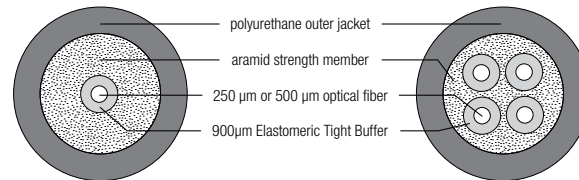
Operating - 56°C to + 85°C

Installation - 20°C to + 85°C

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



Reel Capacity

ITEM	REEL A	REEL B	REEL C
Reel Height (Inches)	16	24	30
Reel Outside Width (inches)	15	17	15.25
Drum Diameter (inches)	8	12	12
Reel Weight (lbs)	10	23	34
CAPACITY: meters (feet)			
2.9mm	2,000 (6,560)	4,500 (14,760)	—
4.0mm	1,100 (3,600)	3,500 (11,480)	4,500 (14,760)
4.5mm	850 (2,788)	2,500 (8,200)	4,500 (14,760)
4.4mm Dual	850 (2,788)	2,500 (8,200)	4,500 (14,760)
5.8mm	500 (1,640)	1,700 (5,575)	2,800 (9,184)

Ordering Information

PART NUMBER	FIBER COUNT	NOMINAL DIA.		NOMINAL WT.		MAXIMUM TENSILE LOAD		MINIMUM BEND RADIUS	
						LBS (N)		INCHES (CM)	
		INCHES	(MM)	LBS/1000FT	(KG/KM)	INSTALLATION	LONG TERM	INSTALLATION	LONG TERM
XU001★29180◆	1	0.12	(2.9)	5.4	(8)	250 (1112)	75 (334)	1.5 (3.8)	1.25 (3.2)
XU001★40180◆	1	0.16	(4.0)	10.1	(15)	275 (1223)	90 (400)	1.75 (4.4)	1.50 (3.8)
XU001★45180◆	1	0.18	(4.5)	11.4	(17)	275 (1223)	90 (400)	2.5 (6.4)	1.75 (4.4)
XU002★44180◆	2	0.17	(4.4)	10.8	(16)	300 (1335)	90 (400)	2.5 (6.4)	1.75 (4.4)
XU004★58180◆	4	0.23	(5.8)	21.5	(32)	375 (1668)	150 (667)	3.25 (8.3)	2.25 (5.7)

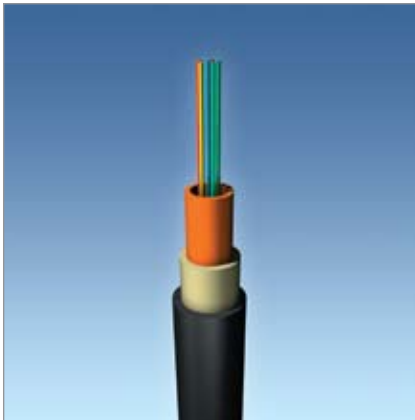
Note: Diameter and weight subject to change without notice

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

- 5 = 50/125μm multimode GIGA-Link™ 600
- 6 = 62.5/125μm multimode GIGA-Link™ 300
- 9 = Single-mode
- K = SM Futureguide SR-15e Bend Insensitive

Replace diamond (◆) in part number with number corresponding to desired fiber type to desired tight buffer below.

- G = Elastomer over 250μm
- H = Elastomer over 500μm
- U = 500μm Bare 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 Telecommunications 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.

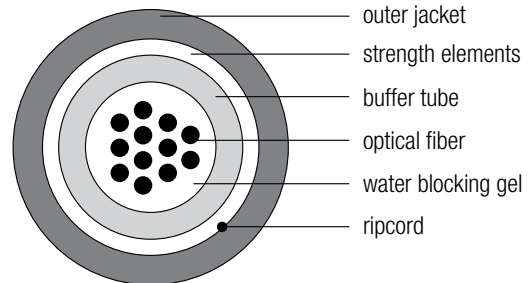
Product Applications

- 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

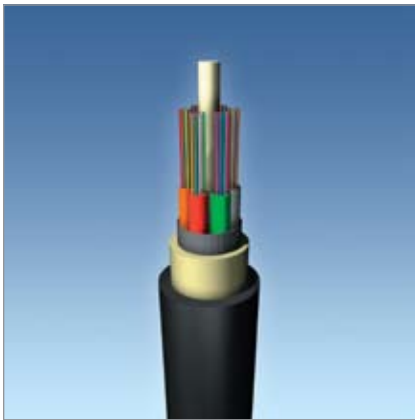
Ordering Information

PART NUMBER	FIBER COUNT	NOMINAL DIA.		NOMINAL WT.		MAXIMUM TENSILE LOAD		MINIMUM BEND RADIUS	
		INCHES	(MM)	LBS/1000FT	(KG/KM)	LBS (N)		INCHES (CM)	
						SHORT TERM	LONG TERM	SHORT TERM	LONG TERM
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 part number with number corresponding to desired fiber type below.

5 = 50/125µm multimode GIGA-Link™ 600
7 = 50/125µm multimode GIGA-Link™ 2000
6 = 62.5/125µm multimode GIGA-Link™ 300
8 = 62.5/125µm multimode GIGA-Link™ 1000
L = 50/125µm 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.

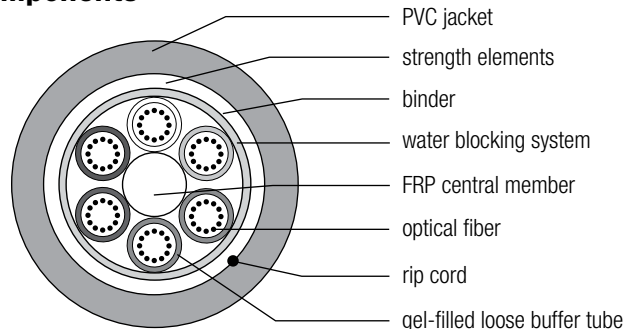
Applications

- 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

FIBER COUNT	MAXIMUM LENGTHS*			
	SINGLE-MODE		MULTIMODE	
	feet	meters	feet	meters
6 - 96	26,200	8,000	26,200	8,000
108 - 144	22,900	7,000	23,000	7,000

* Longer lengths may be available.

Optical Information

FIBER TYPE	MAXIMUM ATTENUATION (dB/km)				OVERFILL LAUNCH MIN. BANDWIDTH (MHz•km)		GIGABIT ETHERNET MINIMUM LINK DISTANCE (meters)	
	850nm	1300nm	1310nm	1550nm	850nm	1300nm	850nm	1300nm
(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	N/A	0.4	0.3	N/A	N/A	N/A	5000
(K) SM Futureguide SR-15e Bend Insensitive	N/A	N/A	0.5	0.3	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

ITEM NUMBER	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		
LV006★C5101N1	6	1w/6 (4 fillers)	0.51 (12.9)	110 (164)	600 (2700)	200 (890)	10.2 (26.0)	5.1 (12.9)		
LV012★C5101N1	12	1w/12 (4 fillers)	0.51 (12.9)	110 (164)	600 (2700)	200 (890)	10.2 (26.0)	5.1 (12.9)		
LV018★C5101N1	18	1w/12, 1w/6 (3 fillers)	0.51 (12.9)	110 (164)	600 (2700)	200 (890)	10.2 (26.0)	5.1 (12.9)		
LV024★C5101N1	24	2w/12 (3 fillers)	0.51 (12.9)	110 (164)	600 (2700)	200 (890)	10.2 (26.0)	5.1 (12.9)		
LV030★C5101N1	30	2w/12, 1w/6 (2 fillers)	0.51 (12.9)	110 (164)	600 (2700)	200 (890)	10.2 (26.0)	5.1 (12.9)		
LV036★C5101N1	36	3w/12 (2 fillers)	0.51 (12.9)	110 (164)	600 (2700)	200 (890)	10.2 (26.0)	5.1 (12.9)		
LV048★C5101N1	48	4w/12 (1 filler)	0.51 (12.9)	110 (164)	600 (2700)	200 (890)	10.2 (26.0)	5.1 (12.9)		
LV060★C5101N1	60	5w/12 (No fillers)	0.51 (12.9)	110 (164)	600 (2700)	200 (890)	10.2 (26.0)	5.1 (12.9)		
LV072★C6101N1	72	6w/12 (No fillers)	0.54 (13.7)	128 (190)	600 (2700)	200 (890)	10.8 (27.4)	5.4 (13.7)		
LV084★C8101N1	84	7w/12 (1 filler)	0.61 (15.5)	148 (220)	600 (2700)	200 (890)	12.2 (31.0)	6.1 (15.5)		
LV096★C8101N1	96	8w/12 (No fillers)	0.61 (15.5)	148 (220)	600 (2700)	200 (890)	12.2 (31.0)	6.1 (15.5)		
LV108★CA101N1	108	9w/12 (1 filler)	0.69 (17.4)	190 (283)	600 (2700)	200 (890)	14.0 (34.8)	7.0 (17.4)		
LV120★CA101N1	120	10w/12 (No fillers)	0.69 (17.4)	190 (283)	600 (2700)	200 (890)	14.0 (34.8)	7.0 (17.4)		
LV132★CC101N1	132	11w/12 (1 filler)	0.76 (19.3)	196 (291)	600 (2700)	200 (890)	15.2 (38.6)	7.6 (19.3)		
LV144★CC101N1	144	12w/12 (No fillers)	0.76 (19.3)	196 (291)	600 (2700)	200 (890)	15.2 (38.6)	7.6 (19.3)		

Note: Diameter and weight subject to change without notice

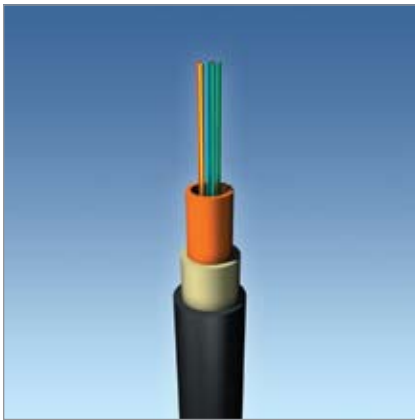
★ Fiber Types – Replace asterisk (★) in part number with number corresponding to desired fiber type below.

5 = 50/125µm multimode GIGA-Link™ 600
 7 = 50/125µm multimode GIGA-Link™ 2000
 6 = 62.5/125µm multimode GIGA-Link™ 300
 8 = 62.5/125µm multimode GIGA-Link™ 1000
 L = 50/125µm 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.

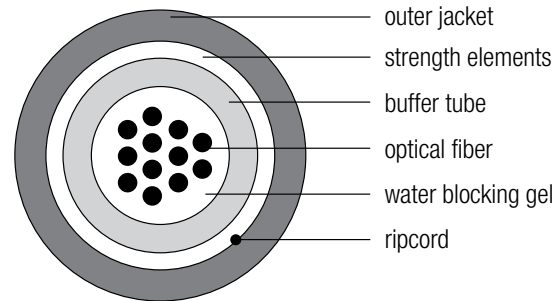


Uniflex® Non-Armored Loose Tube Cable

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

Maximum Lengths

NOMINAL DIAMETER	REEL A (42 x 32 x 23)		REEL B (58 x 32 x 28)		
	mm	feet	meters	feet	meters
7.8		19,000	5,790	27,500	8,400

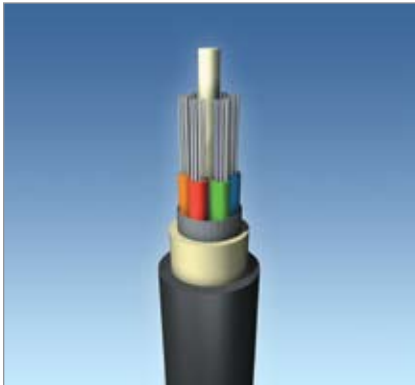
Ordering Information

ITEM NUMBER	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★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 part number with number corresponding to desired fiber type below.

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



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
- Intra-building Backbones

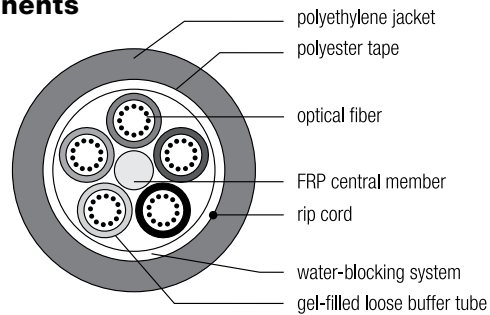
Temperature Range

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	28,500	8,700	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
146 - 216	22,900	7,000	20,000	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)	
	850nm	1300nm	1310nm	1550nm	850nm	1300nm	850nm	1300nm
(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	N/A	0.4	0.3	N/A	N/A	N/A	5000
(K) SM Futureguide SR-15e Bend Insensitive	N/A	N/A	0.4	0.3	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

PART NUMBER	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	57	85	600 (2670)	200 (890)	8.2 (21.0)	4.1 (11.0)
LE012★C5101N1	12	1w/12 (4 fillers)	0.41	10.5	57	85	600 (2670)	200 (890)	8.2 (21.0)	4.1 (11.0)
LE018★C5101N1	18	1w/12,1w/6 (3 fillers)	0.41	10.5	60	90	600 (2670)	200 (890)	8.2 (21.0)	4.1 (11.0)
LE024★C5101N1	24	2w/12 (3 fillers)	0.41	10.5	60	90	600 (2670)	200 (890)	8.2 (21.0)	4.1 (11.0)
LE030★C5101N1	30	2w/12,1w/6 (2 fillers)	0.41	10.5	60	90	600 (2670)	200 (890)	8.2 (21.0)	4.1 (11.0)
LE036★C5101N1	36	3w/12 (2 fillers)	0.41	10.5	60	90	600 (2670)	200 (890)	8.2 (21.0)	4.1 (11.0)
LE048★C5101N1	48	4w/12 (1 filler)	0.41	10.5	60	90	600 (2670)	200 (890)	8.2 (21.0)	4.1 (11.0)
LE060★C5101N1	60	5w/12 (no fillers)	0.41	10.5	60	90	600 (2670)	200 (890)	8.2 (21.0)	4.1 (11.0)
LE072★C6101N1	72	6w/12 (no fillers)	0.45	11.5	71	105	600 (2670)	200 (890)	9.0 (22.0)	4.5 (11.5)
LE084★C8101N1	84	7w/12 (1 filler)	0.52	13.3	84	125	600 (2670)	200 (890)	10.4 (27.0)	5.2 (14.0)
LE096★C8101N1	96	8w/12 (no fillers)	0.52	13.3	84	125	600 (2670)	200 (890)	10.4 (27.0)	5.2 (14.0)
LE108★CA101N1	108	9w/12 (1 filler)	0.59	15.1	99	147	600 (2670)	200 (890)	11.8 (31.0)	5.9 (16.0)
LE120★CA101N1	120	10w/12 (no fillers)	0.59	15.1	99	147	600 (2670)	200 (890)	11.8 (31.0)	5.9 (16.0)
LE132★CC101N1	132	11w/12 (1 filler)	0.67	17.0	147	219	600 (2670)	200 (890)	13.4 (34.0)	6.7 (17.0)
LE144★CC101N1	144	12w/12 (no fillers)	0.67	17.0	148	220	600 (2670)	200 (890)	13.4 (34.0)	6.7 (17.0)
LE216★CI301N1	216	18w/12 (no fillers)	0.69	17.4	150	223	600 (2670)	200 (890)	14.0 (35.0)	6.9 (18.0)
LE288★CO301N1	288	24w/12 (no fillers)	0.79	20.1	192	285	600 (2670)	200 (890)	17.3 (41.0)	7.9 (21.0)
LE432★IO301N1	432	24w/18 (no fillers)	0.87	22.0	226	336	600 (2670)	200 (890)	17.4 (44.0)	8.7 (22.0)
LE576★OO301N1	576	24w/24 (no fillers)	1.00	25.3	309	460	600 (2670)	200 (890)	20.1 (51.0)	10.2 (26.0)

Note: Diameter and weight subject to change without notice

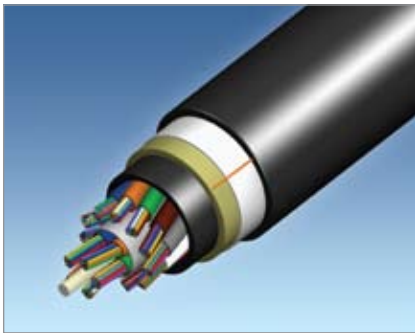
★ Fiber Types – Replace asterisk (★) in part number with number corresponding to desired fiber type below.

- 5 = 50/125µm multimode GIGA-Link™ 600
- 7 = 50/125µm multimode GIGA-Link™ 2000
- 6 = 62.5/125µm multimode GIGA-Link™ 300
- 8 = 62.5/125µm multimode GIGA-Link™ 1000
- 9 = Single-mode
- L = 50/125µm 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
- Intra-building Backbones

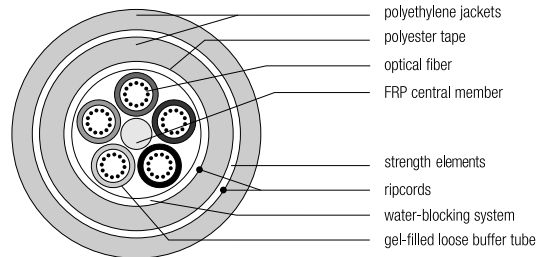
Temperature Range

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	26,240	8,000	26,240	8,000
72 - 96	32,800	10,000	26,200	8,000
108 - 120	28,500	8,700	26,200	8,000
132 - 144	22,600	6,900	23,000	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 MINIMUM LINK DISTANCE (meters)	
	850nm	1300nm	1310nm	1550nm	850nm	1300nm	850nm	1300nm
(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.

Non-Armored Loose Tube Cable – Double Jacket

Ordering Information

PART NUMBER	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	84	125	600 (2670)	200 (890)	9.8 (25)	4.9 (13)
LE012★C5111N1	12	1w/12 (4 fillers)	0.49	12.5	84	125	600 (2670)	200 (890)	9.8 (25)	4.9 (13)
LE018★C5111N1	18	1w/12,1w/6 (3 fillers)	0.49	12.5	84	125	600 (2670)	200 (890)	9.8 (25)	4.9 (13)
LE024★C5111N1	24	2w/12 (3 fillers)	0.49	12.5	84	125	600 (2670)	200 (890)	9.8 (25)	4.9 (13)
LE030★C5111N1	30	2w/12,1w/6 (2 fillers)	0.49	12.5	84	125	600 (2670)	200 (890)	9.8 (25)	4.9 (13)
LE036★C5111N1	36	3w/12 (2 fillers)	0.49	12.5	84	125	600 (2670)	200 (890)	9.8 (25)	4.9 (13)
LE048★C5111N1	48	4w/12 (1 filler)	0.49	12.5	84	125	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	121	180	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	151	224	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	274	600 (2670)	200 (890)	15.0 (38)	7.5 (19)
LE144★CC111N1	144	12w/12 (no fillers)	0.75	19.0	184	274	600 (2670)	200 (890)	15.0 (38)	7.5 (19)
LE216★CI311N1	216	18w/12 (no fillers)	0.76	19.3	187	278	600 (2670)	200 (890)	15.2 (39)	7.6 (20)
LE288★C0311N1	288	24w/12 (no fillers)	0.87	22.0	234	348	600 (2670)	200 (890)	17.4 (44)	8.7 (22)
LE432★I0311N1	432	24w/18 (no fillers)	0.94	23.9	273	406	600 (2670)	200 (890)	18.8 (48)	9.4 (24)
LE576★O0311N1	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

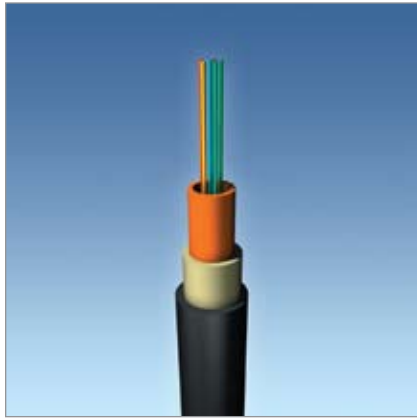
★ Fiber Types – Replace asterisk (★) in part number with number corresponding to desired fiber type below.

- 5 = 50/125µm multimode GIGA-Link™ 600
- 7 = 50/125µm multimode GIGA-Link™ 2000
- 6 = 62.5/125µm multimode GIGA-Link™ 300
- 8 = 62.5/125µm multimode GIGA-Link™ 1000
- L = 50/125µm 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.



Heavy Duty Uniflex® Indoor/Outdoor Loose Tube Cable

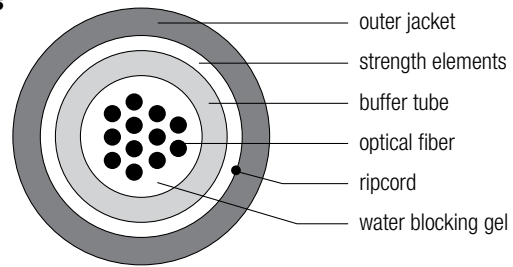
Product Applications

- 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



Ordering Information

ITEM NUMBER	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★C1100N1	2	0.310 (7.8)	34 (50)	600 (2670)	200 (890)	6.3 (16.0)	3.1 (8.0)
LU004★C1100N1	4						
LU006★C1100N1	6						
LU008★C1100N1	8						
LU010★C1100N1	10						
LU012★C1100N1	12						

ITEM NUMBER	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★C1200N1	2	0.366 (9.3)	40 (65)	600 (2670)	200 (890)	7.5 (19.0)	3.7 (9.5)
LU004★C1200N1	4						
LU006★C1200N1	6						
LU008★C1200N1	8						
LU010★C1200N1	10						
LU012★C1200N1	12						

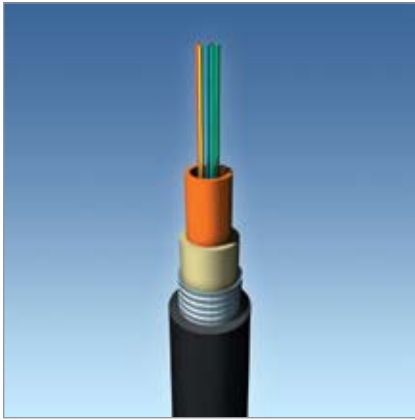
Note: Diameter and weight subject to change without notice

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

- 5 = 50/125µm multimode GIGA-Link™ 600
- 6 = 62.5/125µm multimode GIGA-Link™ 300
- 7 = 50/125µm multimode GIGA-Link™ 2000
- 8 = 62.5/125µm multimode GIGA-Link™ 1000
- L = 50/125µm 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	meters	feet	meters
7.8		20,500	6,250	27,500	8,400
9.3		14,500	4,400	27,500	8,400

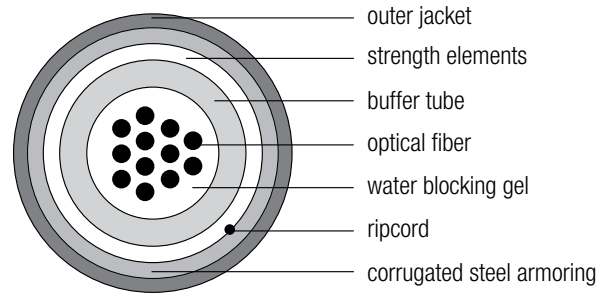


Uniflex® Armored Loose Tube Cable

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

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.

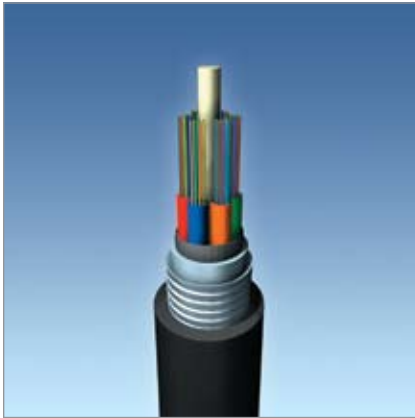
Ordering Information

ITEM NUMBER	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 part number with number corresponding to desired fiber type below.

5 = 50/125µm multimode GIGA-Link™ 600
7 = 50/125µm multimode GIGA-Link™ 2000
6 = 62.5/125µm multimode GIGA-Link™ 300
8 = 62.5/125µm multimode GIGA-Link™ 1000
L = 50/125µm 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 – 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.

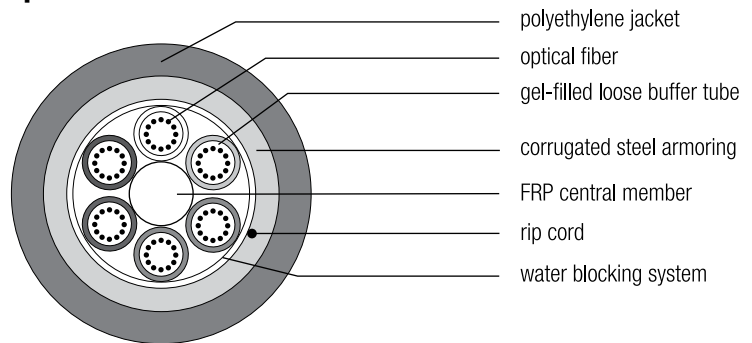
Product Applications

- Long Haul Networking
- Building Interconnections (Campus LAN)
- Trunking Lines Direct to Telecommunications Closet
- Local Loop
- Distance Learning
- Distribution
- Intra-building 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	20,000	6,000	20,000	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 MINIMUM LINK DISTANCE (meters)	
	850nm	1300nm	1310nm	1550nm	850nm	1300nm	850nm	1300nm
(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 – Single Jacket/Single Armor

Ordering Information

PART NUMBER	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★C5201S1	6	1w/6 (4 fillers)	0.54	13.6	107	160	600 (2670)	200 (890)	10.7 (28.0)	5.4 (14.0)
LE012★C5201S1	12	1w/12 (4 fillers)	0.54	13.6	107	160	600 (2670)	200 (890)	10.7 (28.0)	5.4 (14.0)
LE018★C5201S1	18	1w/12, 1w/6 (3 fillers)	0.54	13.6	107	160	600 (2670)	200 (890)	10.7 (28.0)	5.4 (14.0)
LE024★C5201S1	24	2w/12 (3 fillers)	0.54	13.6	107	160	600 (2670)	200 (890)	10.7 (28.0)	5.4 (14.0)
LE030★C5201S1	30	2w/12, 1w/6 (2 fillers)	0.54	13.6	107	160	600 (2670)	200 (890)	10.7 (28.0)	5.4 (14.0)
LE036★C5201S1	36	3w/12 (2 fillers)	0.54	13.6	107	160	600 (2670)	200 (890)	10.7 (28.0)	5.4 (14.0)
LE048★C5201S1	48	4w/12 (1 filler)	0.54	13.6	107	160	600 (2670)	200 (890)	10.7 (28.0)	5.4 (14.0)
LE060★C5201S1	60	5w/12 (no fillers)	0.54	13.6	107	160	600 (2670)	200 (890)	10.7 (28.0)	5.4 (14.0)
LE072★C6201S1	72	6w/12 (no fillers)	0.57	14.4	121	181	600 (2670)	200 (890)	11.4 (29.0)	5.7 (15.0)
LE084★C8201S1	84	7w/12 (1 filler)	0.64	16.3	144	215	600 (2670)	200 (890)	12.8 (33.0)	6.4 (16.3)
LE096★C8201S1	96	8w/12 (no fillers)	0.64	16.3	144	215	600 (2670)	200 (890)	12.8 (33.0)	6.4 (16.3)
LE108★CA201S1	108	9w/12 (1 filler)	0.71	18.1	163	240	600 (2670)	200 (890)	14.2 (37.0)	7.1 (18.1)
LE120★CA201S1	120	10w/12 (no fillers)	0.71	18.1	163	240	600 (2670)	200 (890)	14.2 (37.0)	7.1 (18.1)
LE132★CC201S1	132	11w/12 (1 filler)	0.79	20.0	180	267	600 (2670)	200 (890)	15.7 (40.0)	7.9 (20.0)
LE144★CC201S1	144	12w/12 (no fillers)	0.79	20.0	180	267	600 (2670)	200 (890)	15.7 (40.0)	7.9 (20.0)

Note: Diameter and weight subject to change without notice

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

- 5 = 50/125µm multimode GIGA-Link™ 600
- 7 = 50/125µm multimode GIGA-Link™ 2000
- 6 = 62.5/125µm multimode GIGA-Link™ 300
- 8 = 62.5/125µm multimode GIGA-Link™ 1000
- L = 50/125µm 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 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.

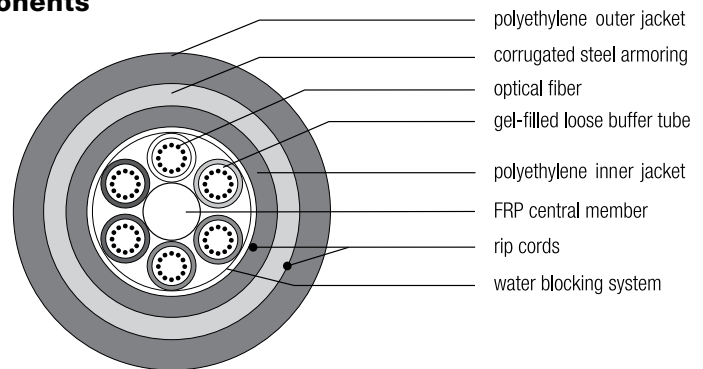
Product Applications

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

Optical Information

FIBER TYPE	MAXIMUM ATTENUATION (dB/km)				OVERFILL LAUNCH MIN. BANDWIDTH (MHz•km)		GIGABIT ETHERNET MINIMUM LINK DISTANCE (meters)	
	850nm	1300nm	1310nm	1550nm	850nm	1300nm	850nm	1300nm
(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

PART NUMBER	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)	0.62	15.5	134	200	600 (2670)	200 (890)	12.4 (32.0)	6.2 (16.0)
LE012★C5111S1	12	1w/12 (4 fillers)	0.62	15.5	134	200	600 (2670)	200 (890)	12.4 (32.0)	6.2 (16.0)
LE018★C5111S1	18	1w/12, 1w/6 (3 fillers)	0.62	15.5	134	200	600 (2670)	200 (890)	12.4 (32.0)	6.2 (16.0)
LE024★C5111S1	24	2w/12 (3 fillers)	0.62	15.5	134	200	600 (2670)	200 (890)	12.4 (32.0)	6.2 (16.0)
LE030★C5111S1	30	2w/12, 1w/6 (2 fillers)	0.62	15.5	134	200	600 (2670)	200 (890)	12.4 (32.0)	6.2 (16.0)
LE036★C5111S1	36	3w/12 (2 fillers)	0.62	15.5	134	200	600 (2670)	200 (890)	12.4 (32.0)	6.2 (16.0)
LE048★C5111S1	48	4w/12 (1 filler)	0.62	15.5	134	200	600 (2670)	200 (890)	12.4 (32.0)	6.2 (16.0)
LE060★C5111S1	60	5w/12 (no fillers)	0.62	15.5	134	200	600 (2670)	200 (890)	12.4 (32.0)	6.2 (16.0)
LE072★C6111S1	72	6w/12 (no fillers)	0.65	16.4	138	206	600 (2670)	200 (890)	13.0 (33.0)	6.5 (16.4)
LE084★C8111S1	84	7w/12 (1 filler)	0.72	18.2	170	254	600 (2670)	200 (890)	14.4 (36.4)	7.2 (18.2)
LE096★C8111S1	96	8w/12 (no fillers)	0.72	18.2	170	254	600 (2670)	200 (890)	14.4 (36.4)	7.2 (18.2)
LE108★CA111S1	108	9w/12 (1 filler)	0.79	20.1	196	292	600 (2670)	200 (890)	15.8 (40.2)	7.9 (20.1)
LE120★CA111S1	120	10w/12 (no fillers)	0.79	20.1	196	292	600 (2670)	200 (890)	15.8 (40.2)	7.9 (20.1)
LE132★CC111S1	132	11w/12 (1 filler)	0.90	22.9	259	385	600 (2670)	200 (890)	18.0 (46.0)	9.0 (22.9)
LE144★CC111S1	144	12w/12 (no fillers)	0.90	22.9	259	385	600 (2670)	200 (890)	18.0 (46.0)	9.0 (22.9)

Note: Diameter and weight subject to change without notice

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

- 5 = 50/125µm multimode GIGA-Link™ 600
- 7 = 50/125µm multimode GIGA-Link™ 2000
- 6 = 62.5/125µm multimode GIGA-Link™ 300
- 8 = 62.5/125µm multimode GIGA-Link™ 1000
- L = 50/125µm 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 – 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 Telecommunications' 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 Telecommunications' 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.

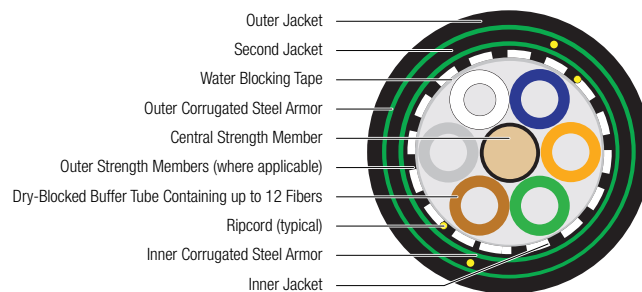
Applications

- 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 MINIMUM LINK DISTANCE (meters)	
	850nm	1300nm	1310nm	1550nm	850nm	1300nm	850nm	1300nm
(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	N/A	0.4	0.3	N/A	N/A	N/A	N/A
(K) SM Futureguide SR-15e Bend Insensitive	N/A	N/A	0.4	0.3	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.

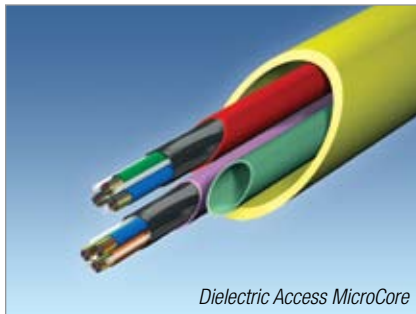
Ordering Information

PART NUMBER	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)

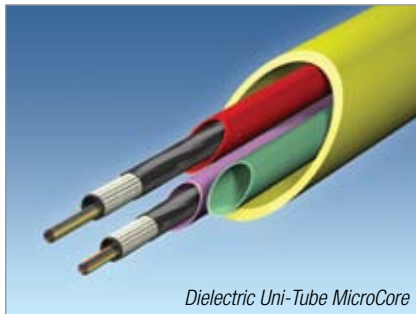
Note: Diameter and weight subject to change without notice

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

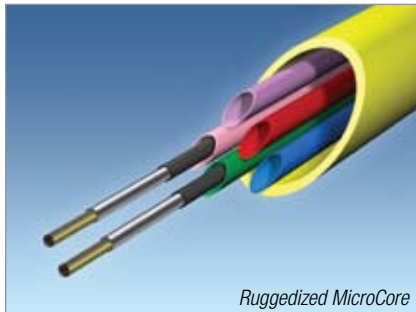
- 5 = 50/125µm multimode GIGA-Link™ 600
- 7 = 50/125µm multimode GIGA-Link™ 2000
- 6 = 62.5/125µm multimode GIGA-Link™ 300
- 8 = 62.5/125µm multimode GIGA-Link™ 1000
- L = 50/125µm multimode Laser-Link™ 300
- 9 = Single-mode
- Q = Non-zero dispersion-shifted single-mode
- K = SM Futureguide SR-15e Bend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



Dielectric Access MicroCore



Dielectric Uni-Tube MicroCore



Ruggedized MicroCore

MicroCore®

MicroCore® is an advanced fiber optic cable technology that allows maximum utilization of existing or future conduit systems with minimal initial investment. Using microduct technology, MicroCore cables are jetted through a network of microducts. Changing or adding to your network is as simple as jetting new fiber optic cables through existing microducts that are part of your conduit system. That reduces up-front capital costs and allows you to build a network to the size you need it today, while providing the ability to easily expand future capacity.

Advantages

Minimize Investment and Boost Revenue

Using microduct technology, MicroCore allows you to deploy fiber when you need it. That saves up-front capital expense and allows you to deploy deeper into your network. With greater loop penetration, you can sign up more subscribers and generate revenue more quickly.

Future-proof Your Network

Because MicroCore allows you to install fiber only when you need it, you can ensure that future installations will use the latest fiber optic technology. So you can upgrade your network in step with fiber technology advancements, and scale it to the size you need.

Override Existing Networks

MicroCore has the flexibility to easily override existing networks. An override allows MicroCore cables and microducts to be jetted into conduit systems with existing cable, to expand networks that are at capacity. No need to get expensive and time consuming permits, disrupt network performance, or pay for property damage for sidewalk or pavement removal.

Features

Dielectric Access MicroCore

- Based on proven AFL fiber optic cable technology
- Three Buffer Tubes - Access Design
- 24 Fibers in each tube
- High density (Up to 72 fibers in a 12/10 mm microduct)
- Fiber in groups of 12 using standard colored string binders
- Tested in accordance with Bellcore GR-20-CORE, Issue 2
- Special Outer Jacket Material

Dielectric Uni-Tube MicroCore

- Based on proven AFL fiber optic cable technology
- Extremely high density (Up to 72 fibers in a 10/8 mm microduct)
- Fiber in groups of 12 using standard colored string binders
- Tested in accordance with Bellcore GR-20-CORE, Issue 2
- Special Outer Jacket Material

Ruggedized MicroCore

- Based on proven AFL fiber optic cable technology
- Hermetically sealed; laser-welded stainless steel tube
- Stainless Steel crush resistant cable
- Extremely high density (Up to 72 fibers in a 10/8 mm microduct)
- Fiber in groups of 12 using standard colored string binders
- Tested in accordance with Bellcore GR-20-CORE, Issue 2
- Special Outer Jacket Material

MicroCore®

Specifications

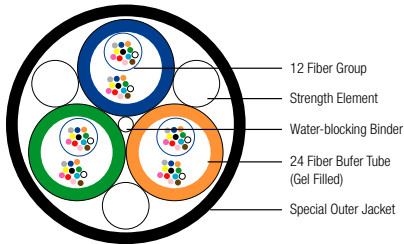
FIBER TYPE	MAXIMUM ATTENUATION (dB/km)				BANDWIDTH (MHz• km)	
	850 nm	1300 nm	1310 nm	1550 nm	850 nm	1300nm
62.5/125	3.5	1.2	n/a	n/a	200	600
50/125	3.5	1.2	n/a	n/a	500	500
Single-mode	n/a	n/a	0.40	0.30	n/a	n/a

MECHANICAL DATA	DIELECTRIC ACCESS MICROCORE		DIELECTRIC UNI-TUBE MICROCORE		RUGGEDIZED MICROCORE	
Fiber count (fiber identified in groups of 12 using string binders)	Up to 72		Up to 72		Up to 72	
Diameter, nominal	7.3 mm	.29 inches	5.9 mm	.23 inches	5.5 mm	.22 inches
Weight, typical	37kg/km	25 lbs./1000 ft.	35kg/km	24 lbs./1000 ft.	40kg/km	27 lbs./1000 ft.
Short-term allowable tension (installation)	2139 N	481 lbs.	1600 N	360 lbs.	1335 N	300 lbs.
Long-term allowable tension (post-installation)	706 N	159 lbs.	533 N	120 lbs.	445 N	100 lbs.
Bend Radius (installation)	15.0 cm	5.9 inches	17.7 cm	6.9 inches	13.8 cm	5.5 inches
Bend Radius (post-installation)	8.0 cm	3.1 inches	12.0 cm	4.7 inches	8.3 cm	3.3 inches
Temperature Range Operation/Installation Storage	-40°C to 70°C -50°C to 75°C					
Outer Jacket Color	Black					
Jacket Print	AFL Telecommunications MicroCore™ Optical Cable Reel number, year and sequential length markings					

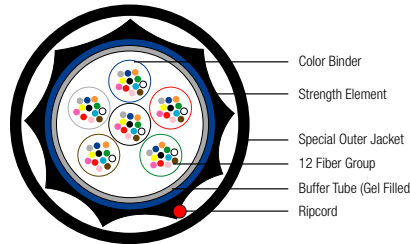
QUALIFIED RATINGS
The above performance complies with Bellcore GR-20-CORE, Issue 2

Cable Diagrams

Dielectric Access MicroCore:



Dielectric Uni-Tube MicroCore:



Ruggedized MicroCore:

