



Fiber Optic Cable Supplement

Fiber Optic Cable:

General Information	2
Interconnect, 1-4 Fiber	3
Distribution, 6-12 Fiber	4
Distribution, 24-72 Fiber	5
Indoor/Outdoor, 4-12 Fiber	6
Indoor/Outdoor, 24-144 Fiber	7
Outside Plant Armored, 4-12 Fiber	8
Outside Plant Armored, 24-144 Fiber	9
Outside Plant Dielectric, 4-12 Fiber	10
Outside Plant Dielectric, 24-144 Fiber	11
Buffer Tube Splitter Kits	12

Summary

- Fiber Optic Cables
 - Interconnect, distribution, indoor/outdoor and outside plant types
 - Meet all industry specifications including: ANSI, IEEE, ATM, Fibre Channel, Bellcore/Telcordia, TIA/EIA, ISO/IEC and ICEA

Optical Fiber Cabling Architecture

Horizontal Cabling

Horizontal cabling runs from the telecommunications room or patch panel to individual workstations or groups of workstations.

Backbone Cabling

Backbone cabling connects a group of telecommunications rooms and can be run vertically (floor to floor) or horizontally.

Campus Cabling

Campus cabling connects two or more buildings. The cables can be installed in aerial, underground conduit, or direct buried applications.

Product Facts

- AMP NETCONNECT Fiber Optic Cables are tested and designed to current and proposed industry specifications for premise cabling, network and telecommunications applications, including:
 - ANSI X3T9.5 PMD (FDDI)
 - IEEE 802.3
 - Gigabit Ethernet
 - 10 Gigabit Ethernet
- ATM (155 & 622 Mb/s)
- Fiber Channel FC-PH
- Telcordia GR-409-CORE (Indoor)
- Telcordia GR-20-CORE (Outdoor)
- TIA/EIA-568-B
- ISO/IEC 11801:2000
- ICEA-596
- ICEA-640
- ICEA-696
- ANSI X3.166-1990

AMP NETCONNECT Fiber Optic Cables

AMP NETCONNECT multimode fiber cables contain the highest quality optical fiber, and offer the best performance for laser-based and LED-based applications. The fiber has been engineered to support applications using the newest laser and VCSEL technologies (such as Gigabit Ethernet and Ten Gigabit Ethernet), while providing advanced performance for legacy applications such as FDDI and Token Ring. The 62.5/125µm fiber is guaranteed for transmission distances up to 300m in Gigabit Ethernet compliant systems at 850nm and up to 550m at 1300nm. The 50/125µm fiber is guaranteed for transmission distances up to 600m in Gigabit Ethernet compliant systems at both 850 and 1300nm. Both of the fibers can support Ten Gigabit Ethernet and can operate at significantly greater distances (greater than 2000m) at slower protocols such as Fast Ethernet. A new fiber type, 850nm Laser-optimized

Fiber	Gigabit Ethernet @ 850nm	Gigabit Ethernet @ 1300nm	10 Gigabit Ethernet Serial @ 850nm	10 Gigabit Ethernet WDM @ 1300nm
Multimode 62.5/125µm	300m	550m	33m	300m
Multimode 50/125µm	600m	600m	82m	300m
Multimode 50/125µm XG (850nm Laser-optimized)	600m	600m	300m	300m

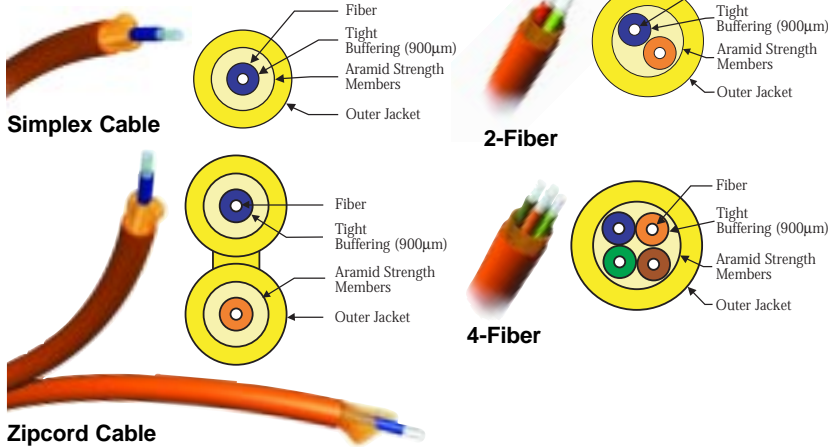
Optical Fiber Cable Specifications

	Singlemode (1300/1550nm)	Multimode 50/125 XG (850/1300nm)	Multimode 50/125 (50/125µm) (850/1300nm)	Multimode 62.5/125 (62.5/125µm) (850/1300nm)
Indoor Cables				
Maximum Attenuation (dB/km)	0.7/0.7	3.5/1.5	3.5/1.5	3.5/1.5
OFL Bandwidth (MHz km)	-/-	1500/500	500/500	200/500
Laser Bandwidth (MHz km)	-/-	2000/-	-/-	-/-
Indoor/Outdoor and OSP Loose Tube Cables				
Maximum Attenuation (dB/km)	0.5/0.3	3.5/1.5	3.5/1.5	3.5/1.5
OFL Bandwidth (MHz km)	-/-	1500/500	500/500	200/500
Laser Bandwidth (MHz km)	-/-	2000/-	-/-	-/-

Optical Fiber Cable Temperature Ranges

		Riser	Plenum
Interconnect (Tight Buffered) Cables	Storage	-40°C to +65°C (-40°F to +149°F)	-40°C to +65°C (-40°F to +149°F)
	Operating	-20°C to +50°C (-4°F to +122°F)	-20°C to +50°C (-4°F to +122°F)
	Installation	-20°C to +50°C (-4°F to +122°F)	-20°C to +50°C (-4°F to +122°F)
Indoor, Distribution (Tight Buffered) Cables	Storage	-40°C to +65°C (-40°F to +149°F)	-40°C to +65°C (-40°F to +149°F)
	Operating	-20°C to +50°C (-4°F to +122°F)	0°C to +50°C (32°F to +122°F)
	Installation	-20°C to +50°C (-4°F to +122°F)	0°C to +50°C (32°F to +122°F)
Stranded Cables			
Indoor/Outdoor Cables	Storage	-40°C to +70°C (-40°F to +160°F)	-40°C to +70°C (-40°F to +160°F)
	Operating	-40°C to +70°C (-40°F to +160°F)	-40°C to +70°C (-40°F to +160°F)
	Installation	-20°C to +60°C (-4°F to +140°F)	-20°C to +60°C (-4°F to +140°F)
Stranded Cables			
OSP (Loose Tube) Cables	Storage	-40°C to +70°C (-40°F to +160°F)	-40°C to +70°C (-40°F to +160°F)
	Operating	-40°C to +70°C (-40°F to +160°F)	-40°C to +70°C (-40°F to +160°F)
	Installation	-20°C to +60°C (-4°F to +140°F)	-20°C to +60°C (-4°F to +140°F)

Interconnect, 1-4 Fiber



Product Facts

- Suitable for pigtailed, patch cords, horizontal cabling and internal equipment connections
- Suitable for direct termination with epoxy/polish type, LightCrimp, LightCrimp Plus and MT-RJ Connectors
- High performance singlemode and multimode fibers meet all industry performance standards
- Strippable buffer coating allows for easy connectorization
- Aramid yarn reinforcement
- UL and cUL listed OFNR (Riser)/OFNP (Plenum)
- Designed and tested in accordance with TIA/EIA-568-B, Telcordia GR-409-CORE, IEC 793-1/794-1 and ISO/IEC 11801:2000



Simplex (2.0mm)

Fiber Count	Unit Count Units (Fibers/Unit)	Fiber Type	UL/NEC Ratings	AMP NETCONNECT Part Number	Weight kg/km (lb/kft)	Diameter mm (in)	Tensile Load N (lbf)		Bending Radius mm (in)	
							Installation	Long Term	Installation	Long Term
1	1 (1)	Singlemode	Riser	0-1664006-6	5 (3)	2.0 (0.08)	220 (50)	55 (12.5)	40 (1.6)	20 (0.8)
			Plenum	0-1664007-6	6 (4)					
		Multimode	Riser	2-1664008-1	5 (3)					
		50/125µm	Plenum	2-1664009-1	6 (4)					
		XG Multimode	Riser	8-1664008-1	5 (3)					
		50/125µm	Plenum	8-1664009-1	6 (4)					
		Multimode	Riser	1-1664010-1	5 (3)					
		62.5/125µm	Plenum	1-1664011-1	6 (4)					

Simplex (2.9mm)

1	1 (1)	Singlemode	Riser	0-1664000-6	8 (5)	2.9 (0.11)	220 (50)	55 (12.5)	58 (2.8)	29 (1.1)
			Plenum	0-1664001-6	9 (6)					
		Multimode	Riser	2-1664002-1	8 (5)					
		50/125µm	Plenum	2-1664003-1	9 (6)					
		XG Multimode	Riser	8-1664002-1	8 (5)					
		50/125µm	Plenum	8-1664003-1	9 (6)					
		Multimode	Riser	1-1664004-1	8 (5)					
		62.5/125µm	Plenum	1-1664005-1	9 (6)					

Zipcord (2.0mm)

2	2 (1)	Singlemode	Riser	0-1664018-6	6 (4)	2.0x4.0 (0.08x0.16)	220 (50)	55 (12.5)	40 (2.2)	20 (0.8)
			Plenum	0-1664019-6	8 (5)					
		Multimode	Riser	2-1664020-1	6 (4)					
		50/125µm	Plenum	2-1664021-1	8 (5)					
		XG Multimode	Riser	8-1664020-1	6 (4)					
		50/125µm	Plenum	8-1664021-1	8 (5)					
		Multimode	Riser	1-1664022-1	6 (4)					
		62.5/125µm	Plenum	1-1664023-1	8 (5)					

Zipcord (2.9mm)

2	2 (1)	Singlemode	Riser	0-1664012-6	15 (10)	2.9x5.8 (0.11x0.22)	220 (50)	55 (12.5)	58 (2.2)	29 (1.1)
			Plenum	0-1664013-6	18 (12)					
		Multimode	Riser	2-1664014-1	15 (10)					
		50/125µm	Plenum	2-1664015-1	18 (12)					
		XG Multimode	Riser	8-1664014-1	15 (10)					
		50/125µm	Plenum	8-1664015-1	18 (12)					
		Multimode	Riser	1-1664016-1	15 (10)					
		62.5/125µm	Plenum	1-1664017-1	18 (12)					

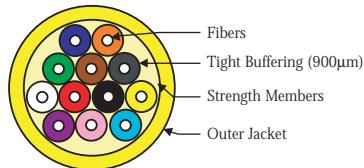
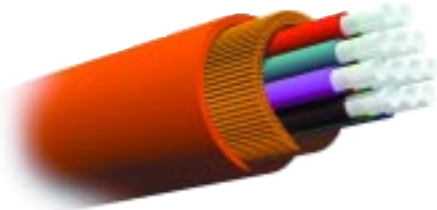
2-Fiber

2	1 (2)	Singlemode	Riser	0-1664024-6	19 (13)	4.8	220 (50)	55 (12.5)	95 (3.8)	48 (1.9)
			Plenum	0-1664025-6	23 (16)					
		Multimode	Riser	2-1664026-1	19 (13)					
		50/125µm	Plenum	2-1664027-1	23 (16)					
		XG Multimode	Riser	8-1664026-1	19 (13)					
		50/125µm	Plenum	8-1664027-1	23 (16)					
		Multimode	Riser	1-1664028-1	19 (13)					
		62.5/125µm	Plenum	1-1664029-1	23 (16)					

4-Fiber

4	1 (4)	Singlemode	Riser	0-1664030-6	21 (14)	4.8	220 (50)	55 (12.5)	95 (3.8)	48 (1.9)
			Plenum	0-1664031-6	25 (17)					
		Multimode	Riser	2-1664032-1	21 (14)					
		50/125µm	Plenum	2-1664033-1	25 (17)					
		XG Multimode	Riser	8-1664032-1	21 (14)					
		50/125µm	Plenum	8-1664033-1	25 (17)					
		Multimode	Riser	1-1664034-1	21 (14)					
		62.5/125µm	Plenum	1-1664035-1	25 (17)					

Distribution, 6-12 Fiber



Distribution Fiber Optic Cables

Product Facts

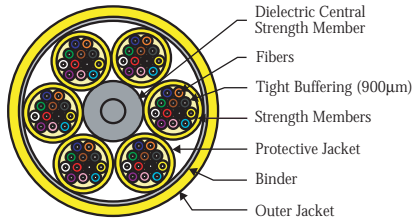
- Suitable for horizontal and intrabuilding backbone cabling, and for direct termination in multi-user outlets
- Suitable for direct termination with epoxy/polish-type, LightCrimp, LightCrimp Plus and MT-RJ Connectors
- High performance singlemode and multimode fibers meet all industry performance standards
- Strippable 900µm tight buffer coating allows for easy connectorization
- TIA color-coded fibers for easy identification
- Hybrid cables provide a built-in upgrade for future applications that will require singlemode fibers
- UL and cUL listed OFNR (Riser)/OFNP (Plenum)
- Designed and tested in accordance with TIA/EIA-568-B, Telcordia GR-409-CORE, IEC 793-1/794-1, ICEA-596 and ISO/IEC 11801:2000



Fiber Count	Unit Count (Fibers/Unit)	Fiber Type	UL/NEC Ratings	AMP NETCONNECT Part Number	Weight kg/km (lb/kft)	Diameter mm (in)	Tensile Load N (lbf)		Bending Radius mm (in)						
							Installation	Long Term	Installation	Long Term					
6	1 (6)	Singlemode	Riser	0-1664036-6	22 (15)	4.8 (0.19)	667 (150)	167 (38)	96 (3.8)	48 (1.9)					
			Plenum	0-1664037-6	24 (16)		445 (100)	111 (25)							
		Multimode	Riser	2-1664038-1	22 (15)		667 (150)	167 (38)							
			Plenum	2-1664039-1	24 (16)		445 (100)	111 (25)							
		XG Multimode	Riser	8-1664038-1	22 (15)		667 (150)	167 (38)							
			Plenum	8-1664039-1	24 (16)		445 (100)	111 (25)							
		50/125µm	Riser	1-1664040-1	22 (15)		667 (150)	167 (38)							
			Plenum	1-1664041-1	24 (16)		445 (100)	111 (25)							
		62.5/125µm	Riser	0-1664042-6	24 (16)		667 (150)	167 (38)							
			Plenum	0-1664043-6	26 (18)		445 (100)	111 (25)							
		8	1 (8)	Multimode	Riser		2-1664044-1	24 (16)			4.9 (0.19)	667 (150)	167 (38)	108 (4.2)	54 (2.1)
					Plenum		2-1664045-1	26 (18)				445 (100)	111 (25)		
XG Multimode	Riser			8-1664044-1	24 (16)	667 (150)	167 (38)								
	Plenum			8-1664045-1	26 (18)	445 (100)	111 (25)								
Multimode	Riser			1-1664046-1	24 (16)	667 (150)	167 (38)								
	Plenum			1-1664047-1	26 (18)	445 (100)	111 (25)								
12	1 (12)	Singlemode	Riser	0-1664048-6	36 (24)	6.2 (0.24)	667 (150)	167 (38)	124 (4.8)	62 (2.4)					
			Plenum	0-1664049-6	46 (31)		445 (100)	111 (25)							
		Multimode	Riser	2-1664050-1	36 (24)		667 (150)	167 (38)							
			Plenum	2-1664051-1	46 (31)		445 (100)	111 (25)							
		XG Multimode	Riser	8-1664050-1	36 (24)		667 (150)	167 (38)							
			Plenum	8-1664051-1	46 (31)		445 (100)	111 (25)							
		50/125µm	Riser	1-1664052-1	36 (24)		667 (150)	167 (38)							
			Plenum	1-1664053-1	46 (31)		445 (100)	111 (25)							

Note: Other cable designs (including hybrid) available. Call for more information.

Distribution, 24-72 Fiber



Product Facts

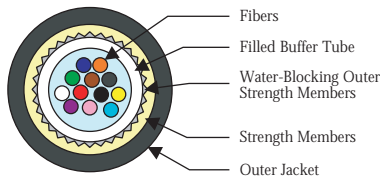
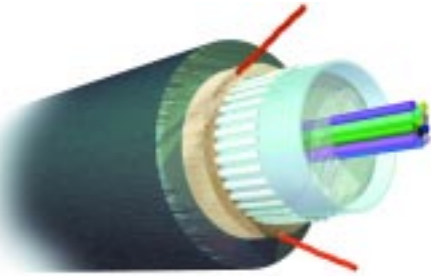
- Suitable for horizontal and intrabuilding backbone cabling, and for direct termination in multi-user outlets
- Suitable for direct termination with epoxy/polish-type, LightCrimp, LightCrimp Plus and MT-RJ connectors
- High performance singlemode and multimode fibers meet all industry performance standards
- Strippable 900µm tight buffer coating allows for easy connectorization
- TIA color-coded fibers for easy identification
- Hybrid cables provide a built-in upgrade for future applications that will require singlemode fibers
- UL and cUL listed OFNR (Riser)/OFNP(Plenum)
- Designed and tested in accordance with TIA/EIA-568-B, Telcordia GR-409-CORE, IEC 793-1/794-1, ICEA-596 and ISO/IEC 11801:2000

Multi-Unit Distribution Fiber Optic Cables

Fiber Count	Unit Count Unit (Fibers/Unit)	Fiber Type	UL/NEC Ratings	AMP NETCONNECT Part Number	Weight kg/km (lb/kft)	Diameter mm (in)	Tensile Load N (lbf)		Bending Radius mm (in)				
							Installation	Long Term	Installation	Long Term			
24	2 (12)	Singlemode	Riser	0-1664054-6	87 (59)	7.2 x 13.4	1335 (300)	334 (75)	144 (5.6)	72 (2.8)			
			Plenum	0-1664055-6	117 (79)		667 (150)	167 (38)					
		Multimode	Riser	2-1664056-1	87 (59)		1335 (300)	334 (75)					
			Plenum	2-1664057-1	117 (79)		667 (150)	167 (38)					
		XG Multimode	Riser	8-1664056-1	87 (59)		1335 (300)	334 (75)					
			Plenum	8-1664057-1	117 (79)		667 (15)	167 (38)					
	1 SM (12) 1 MM (12)	Multimode	Riser	1-1664058-1	87 (59)		1335 (300)	334 (75)					
			Plenum	1-1664059-1	117 (79)		667 (150)	167 (38)					
		Hybrid	Riser	4-1664084-1	87(59)		1335 (300)	334 (75)					
			Plenum	4-1664085-1	117 (79)		667 (150)	167 (38)					
		4 (6)	Singlemode	Riser	0-1664060-6		160 (109)	13.2 (0.54)	1335 (300)	334 (75)	201 (8.0)	134 (5.3)	
				Plenum	0-1664061-6		200 (140)		667 (150)	167 (38)			
Multimode	Riser		2-1664062-1	160 (109)	1335 (300)	334 (75)							
	Plenum		2-1664063-1	200 (140)	667 (150)	167 (38)							
XG Multimode	Riser		8-1664062-1	160 (109)	1335 (300)	334 (175)							
	Plenum		8-1664063-1	200 (140)	667 (150)	167 (38)							
2 SM (6) 2 MM (6)	Multimode	Riser	1-1664064-1	160 (109)	1335 (300)	334 (75)							
		Plenum	1-1664065-1	200 (140)	667 (150)	167 (38)							
	Hybrid	Riser	4-1664086-1	160 (109)	1335 (300)	334 (75)							
		Plenum	4-1664087-1	200 (140)	667 (150)	167 (38)							
	36	6 (6)	Singlemode	Riser	0-1664066-6	210 (140)	16.4 (0.65)		1335 (300)	334 (75)	348 (13.8)	174 (6.9)	
				Plenum	0-1664067-6	260 (180)			667 (150)	167 (38)			
Multimode			Riser	2-1664068-1	210 (140)	1335 (300)		334 (75)					
			Plenum	2-1664069-1	260 (180)	667 (150)		167 (38)					
XG Multimode			Riser	8-1664068-1	210 (140)	1335 (300)		334 (75)					
			Plenum	8-1664069-1	260 (180)	667 (150)		167 (38)					
2 SM (6) 4 MM (6)		Multimode	Riser	1-1664070-1	210 (140)	1335 (300)		334 (75)					
			Plenum	1-1664071-1	260 (180)	667 (150)		167 (38)					
		Hybrid	Riser	4-1664088-1	210 (140)	1335 (300)		334 (75)					
			Plenum	4-1664089-1	260 (180)	667 (150)		167 (38)					
		48	4 (12)	Singlemode	Riser	0-1664072-6		250 (170)	18.2 (0.72)	1335 (300)	334 (75)	360 (14.2)	180 (7.1)
					Plenum	0-1664073-6		310 (210)		667 (150)	167 (38)		
Multimode	Riser			2-1664074-1	250 (170)	1335 (300)	334 (75)						
	Plenum			2-1664075-1	310 (210)	667 (150)	167 (38)						
XG Multimode	Riser			8-1664074-1	250 (170)	1335 (300)	334 (75)						
	Plenum			8-1664075-1	310 (210)	667 (150)	167 (38)						
6 (12)	Multimode		Riser	1-1664076-1	250 (170)	1335 (300)	334 (75)						
			Plenum	1-1664077-1	310 (210)	667 (150)	167 (38)						
	Singlemode		Riser	0-1664078-6	380 (260)	1335 (300)	334 (75)						
			Plenum	0-1664079-6	460 (310)	667 (150)	167 (38)						
	72		Multimode	Riser	2-1664080-1	380 (260)	22.0 (0.86)	1335 (300)		334 (75)	432 (17.0)	216 (8.5)	
				Plenum	2-1664081-1	460 (310)		667 (150)		167 (38)			
XG Multimode		Riser	8-1664080-1	380 (260)	1335 (300)	334 (75)							
		Plenum	8-1664081-1	460 (310)	667 (150)	167 (38)							
Multimode		Riser	1-1664082-1	380 (260)	1335 (300)	334 (75)							
		Plenum	1-1664083-1	460 (310)	667 (150)	167 (38)							
2 SM (12) 4 MM (12)	Hybrid	Riser	4-1664090-1	380 (260)	1335 (300)	334 (75)							
		Plenum	4-1664091-1	460 (310)	667 (150)	167 (38)							

Note: Other cable designs (including hybrid) available. Call for more information.

Indoor/Outdoor, 4-12 Fiber



Indoor/Outdoor Single Loose Tube Cables

Product Facts

- Suitable for:
 - Outdoor to indoor cable links without the need for a building entrance splice point
 - Intrabuilding links in a campus environment (ducted or direct burial)
 - Aerial links (when used with a messenger strand)
 - Local loop and feeder networks
 - Outdoor areas with intermittent flooding or moisture
 - Environments with severe temperature fluctuations
 - Drop or service cables
- High performance singlemode and multimode fibers meet all industry performance standards
- TIA color-coded fibers for easy identification
- Gel-filled buffer tube for water penetration protection
- Small diameter single tube construction saves space inside ducts
- Flame retardant UV-protected jacket for harsh outdoor environment
- Hybrid cables provide a built-in upgrade for future applications that will require singlemode fibers
- UL and cUL listed OFNR (Riser)
- Designed and tested in accordance with TIA/EIA-568-B, Telcordia GR-409-CORE, GR-20-CORE, IEC 793-1/794-1 and ISO/IEC 11801:2000
- Compatible with Splitter Kits [see page 12]

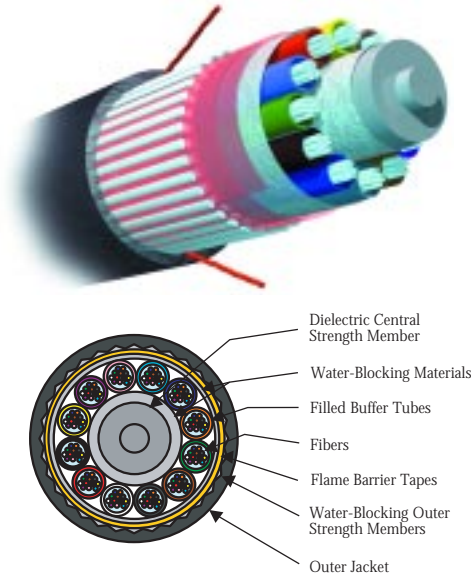


Single Loose Tube

Fiber Count	Unit Count Units (Fibers/Unit)	Fiber Type	UL/NEC AMP NETCONNECT Ratings	Part Number	Weight kg/km (lb/kft)	Diameter mm (in)	Tensile Load N (lbf)		Bending Radius mm (in)	
							Installation	Long Term	Installation	Long Term
4	1 (4)	Singlemode	Riser	0-1664092-5	71 (48)	8.5 (0.34)	1800 (400)	890 (200)	179 (6.8)	85 (3.4)
		Multimode 50/125µm	Riser	2-1664093-5						
		XG Multimode 50/125µm	Riser	8-1664093-5						
		Multimode 62.5/125µm	Riser	1-1664094-5						
6	1 (6)	Singlemode	Riser	0-1664095-5	71 (48)	8.5 (0.34)	1800 (400)	890 (200)	179 (6.8)	85 (3.4)
		Multimode 50/125µm	Riser	2-1664096-5						
		XG Multimode 50/125µm	Riser	8-1664096-5						
		Multimode 62.5/125µm	Riser	1-1664097-5						
8	1 (8)	Singlemode	Riser	0-1664098-5	71 (48)	8.5 (0.34)	1800 (400)	890 (200)	179 (6.8)	85 (3.4)
		Multimode 50/125µm	Riser	2-1664099-5						
		XG Multimode 50/125µm	Riser	8-1664099-5						
		Multimode 62.5/125µm	Riser	1-1664100-5						
12	1 (12)	Singlemode	Riser	0-1664101-5	71 (48)	8.5 (0.34)	1800 (400)	890 (200)	179 (6.8)	85 (3.4)
		Multimode 50/125µm	Riser	2-1664102-5						
		XG Multimode 50/125µm	Riser	8-1664102-5						
		Multimode 62.5/125µm	Riser	1-1664103-5						
	1 SM (6)/MM (6)	Hybrid Singlemode-62.5/125µm	Riser	4-1664104-5						

Note: Other cable designs (including hybrid) available. Call for more information.

Indoor/Outdoor, 24-144 Fiber



Indoor/Outdoor Stranded Loose Tube Fiber Optic Cables



Product Facts

- Suitable for:
 - Outdoor to indoor cable links without the need for a building entrance splice point
 - Intrabuilding links (ducted or direct burial) in a campus environment
 - Aerial links (when used with a messenger strand)
 - Local loop and feeder networks
 - Outdoor areas with intermittent flooding or moisture
 - Environments with severe temperature fluctuations
 - Drop or service cables
- High performance singlemode and multimode fibers meet all industry performance standards
- TIA color-coded fibers in TIA color-coded tubes for easy identification
- Gel-filled buffer tubes and water swellable yarns for water penetration protection
- Flame retardant UV-protected jacket for harsh outdoor environment
- Hybrid cables provide a built-in upgrade for future applications that will require singlemode fibers
- UL and cUL listed OFNR (Riser)
- Designed and tested in accordance with TIA/EIA-568-B, Telcordia GR-409-CORE, GR-20-CORE, IEC 793-1/794-1 and ISO/IEC 11801:2000
- Compatible with Splitter Kits [see page 12]
- Reverse oscillating lay tube construction for ease of mid-span entry

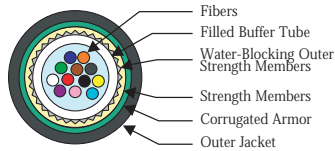
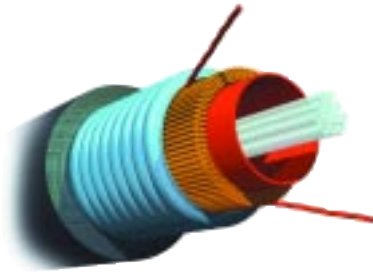
Stranded Loose Tube

Fiber Count	Unit Count Unit (Fibers/Unit)	Fiber Type	UL/NEC Ratings	AMP NETCONNECT Part Number	Weight kg/km (lb/kft)	Diameter mm (in)	Tensile Load N (lbf)		Bending Radius mm (in)	
							Installation	Long Term	Installation	Long Term
24	2 (12)	Singlemode	Riser	0-1664105-5	144 (98)	12.3 (0.48)	2700 (600)	890 (200)	246 (9.7)	123 (4.8)
		Multimode 50/125µm	Riser	2-1664106-5						
		XG Multimode 50/125µm	Riser	8-1664106-5						
		Multimode 62.5/125µm	Riser	1-1664107-5						
	1 SM (12) 1 MM (12)	Hybrid Singlemode-62.5/125µm	Riser	4-1664123-5						
36	3 (12)	Singlemode	Riser	0-1664108-5	144 (98)	12.3 (0.48)	2700 (600)	890 (200)	246 (9.7)	123 (4.8)
		Multimode 50/125µm	Riser	2-1664109-5						
		XG Multimode 50/125µm	Riser	8-1664109-5						
		Multimode 62.5/125µm	Riser	1-1664110-5						
	1 SM (12) 2 MM (12)	Hybrid Singlemode-62.5/125µm	Riser	4-1664124-5						
48	4 (12)	Singlemode	Riser	0-1664111-5	144 (98)	12.3 (0.48)	2700 (600)	890 (200)	246 (9.7)	123 (4.8)
		Multimode 50/125µm	Riser	2-1664112-5						
		XG Multimode 50/125µm	Riser	8-1664112-5						
		Multimode 62.5/125µm	Riser	1-1664113-5						
	1 SM (12) 4 MM (12)	Hybrid Singlemode-62.5/125µm	Riser	4-1664114-5						
72	6 (12)	Singlemode	Riser	0-1664115-5	168 (110)	13.1 (0.51)	2700 (600)	890 (200)	261 (10.2)	131 (5.1)
		Multimode 50/125µm	Riser	2-1664115-5						
		XG Multimode 50/125µm	Riser	8-1664115-5						
		Multimode 62.5/125µm	Riser	1-1664116-5						
	2 SM (12) 4 MM (12)	Hybrid Singlemode-62.5/125µm	Riser	4-1664125-5						
96	8 (12)	Singlemode	Riser	0-1664117-5	277 (190)	17.0 (0.67)	2700 (600)	890 (200)	304 (12.0)	152 (6.0)
		Multimode 50/125µm	Riser	2-1664118-5						
		XG Multimode 50/125µm	Riser	8-1664118-5						
		Multimode 62.5/125µm	Riser	1-1664119-5						
144	12 (12)	Singlemode	Riser	0-1664120-5	305 (210)	18.8 (0.74)	2700 (600)	890 (200)	370 (14.6)	185 (7.3)
		Multimode 50/125µm	Riser	2-1664121-5						
		XG Multimode 50/125µm	Riser	8-1664121-5						
		Multimode 62.5/125µm	Riser	1-1664122-5						

Note: Other cable designs (including hybrid) available. Call for more information.

For More Information, Call 1-800-553-0938 www.ampnetconnect.com

Outside Plant (OSP) Armored, 4-12 Fiber



**OSP Armored Single Loose Tube
Fiber Optic Cable**

Product Facts

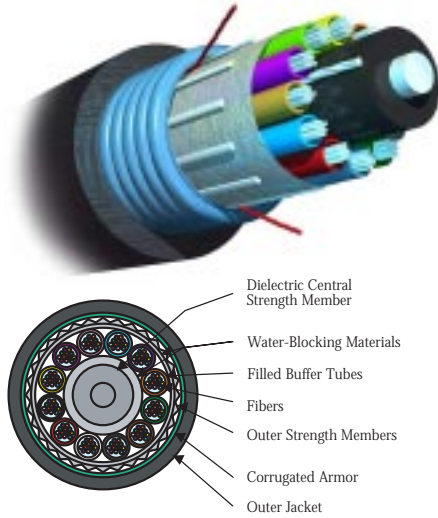
- Suitable for:
 - Intrabuilding links (ducted or direct burial) in a campus environment
 - Aerial links (when used with a messenger strand)
 - Local loop and feeder networks
 - Outdoor areas with intermittent flooding or moisture
 - Environments with severe temperature fluctuations
 - Drop or service cables
- High performance singlemode and multimode fibers meet all industry performance standards
- TIA color-coded fibers for easy identification
- Dry water-blocking technology
- Small diameter single tube construction saves space inside ducts
- Polyethylene UV-protected jacket for harsh outdoor environment
- Low friction jacket for ease of pulling through ducts
- Armored construction
- Designed and tested in accordance with TIA/EIA-568-B, Telcordia GR-20-CORE, IEC 793-1/794-1, ICEA-640 and ISO/IEC 11801:2000
- Compatible with Splitter Kits [see page 12]

Armored Single Loose Tube

Fiber Count	Unit Count Units (Fibers/Unit)	Fiber Type	UL/NEC Ratings	AMP NETCONNECT Part Number	Weight kg/km (lb/kft)	Diameter mm (in)	Tensile Load N (lbf)		Bending Radius mm (in)	
							Installation	Long Term	Installation	Long Term
4	1 (4)	Singlemode	OSP	0-1664160-5	120 (78)	10.7 (0.42)	2700 (600)	890 (200)	214 (8.4)	107 (4.2)
		Multimode 50/125µm	OSP	2-1664161-5						
		XG Multimode 50/125µm	OSP	8-1664161-5						
		Multimode 62.5/125µm	OSP	1-1664162-5						
6	1 (6)	Singlemode	OSP	0-1664163-5						
		Multimode 50/125µm	OSP	2-1664164-5						
		XG Multimode 50/125µm	OSP	8-1664164-5						
		Multimode 62.5/125µm	OSP	1-1664165-5						
8	1 (8)	Singlemode	OSP	0-1664166-5						
		Multimode 50/125µm	OSP	2-1664167-5						
		XG Multimode 50/125µm	OSP	8-1664167-5						
		Multimode 62.5/125µm	OSP	1-1664168-5						
12	1 (12)	Singlemode	OSP	0-1664169-5						
		Multimode 50/125µm	OSP	2-1664170-5						
		XG Multimode 50/125µm	OSP	8-1664170-5						
		Multimode 62.5/125µm	OSP	1-1664171-5						

Note: Other cable designs (including hybrid) available. Call for more information.

Outside Plant (OSP) Armored, 24-144 Fiber



**OSP Armored Stranded Loose Tube
Fiber Optic Cable**

Product Facts

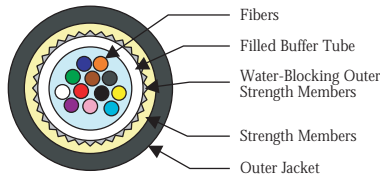
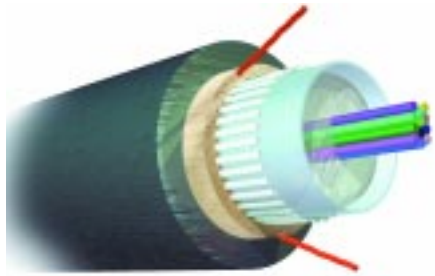
- Suitable for
 - Intrabuilding links in a campus environment (ducted or direct burial)
 - Aerial links (when used with a messenger strand)
 - Local loop and feeder networks
 - Outdoor areas with intermittent flooding or moisture
 - Environments with severe temperature fluctuations
 - Drop or service cables
- High performance singlemode and multimode fibers meet all industry performance standards
- TIA color-coded fibers in TIA color-coded buffer tubes for easy identification
- Dry water-blocking technology
- Polyethylene UV-protected jacket for harsh outdoor environment
- Low friction jacket for ease of pulling through ducts
- Armored construction
- Reverse oscillating lay tube construction for ease of mid-span entry
- Designed and tested in accordance with TIA/EIA-568-B, Telcordia GR-20-CORE, IEC 793-1/794-1, ICEA-640 and ISO/IEC 11801:2000
- Compatible with Splitter Kits [see page 12]

Armored Stranded Loose Tube

Fiber Count	Unit Count Units (Fibers/Unit)	Fiber Type	UL/NEC Ratings	AMP NETCONNECT Part Number	Weight kg/km (lb/kft)	Diameter mm (in)	Tensile Load N (lbf)		Bending Radius mm (in)	
							Installation	Long Term	Installation	Long Term
24	2 (12)	Singlemode	OSP	0-1664172-5	170 (120)	13.4 (0.53)	2700 (600)	890 (200)	268 (10.6)	134 (5.3)
		Multimode 50/125µm	OSP	2-1664173-5						
		XG Multimode 50/125µm	OSP	8-1664173-5						
		Multimode 62.5/125µm	OSP	1-1664174-5						
36	3 (12)	Singlemode	OSP	0-1664175-5	160 (110)	13.4 (0.53)	2700 (600)	890 (200)	268 (10.6)	134 (5.3)
		Multimode 50/125µm	OSP	2-1664176-5						
		XG Multimode 50/125µm	OSP	8-1664176-5						
		Multimode 62.5/125µm	OSP	1-1664177-5						
48	4 (12)	Singlemode	OSP	0-1664178-5	160 (110)	13.4 (0.53)	2700 (600)	890 (200)	268 (10.6)	134 (5.3)
		Multimode 50/125µm	OSP	2-1664179-5						
		XG Multimode 50/125µm	OSP	8-1664179-5						
		Multimode 62.5/125µm	OSP	1-1664180-5						
72	6 (12)	Singlemode	OSP	0-1664181-5	200 (140)	14.2 (0.56)	2700 (600)	890 (200)	284 (11.2)	142 (5.6)
		Multimode 50/125µm	OSP	2-1664182-5						
		XG Multimode 50/125µm	OSP	8-1664182-5						
		Multimode 62.5/125µm	OSP	1-1664183-5						
96	6 (12)	Singlemode	OSP	0-1664184-5	230 (160)	16.0 (0.63)	2700 (600)	890 (200)	320 (12.6)	160 (6.3)
		Multimode 50/125µm	OSP	2-1664185-5						
		XG Multimode 50/125µm	OSP	8-1664185-5						
		Multimode 62.5/125µm	OSP	1-1664186-5						
144	12 (12)	Singlemode	OSP	0-1664187-5	350 (240)	20.0 (0.78)	2700 (600)	890 (200)	392 (15.4)	196 (7.7)
		Multimode 50/125µm	OSP	2-1664188-5						
		XG Multimode 50/125µm	OSP	8-1664188-5						
		Multimode 62.5/125µm	OSP	1-1664189-5						

Note: Other cable designs (including hybrid) available. Call for more information.

Outside Plant (OSP) Dielectric, 4-12 Fiber



**OSP Dielectric Single Loose Tube
Fiber Optic Cable**

Product Facts

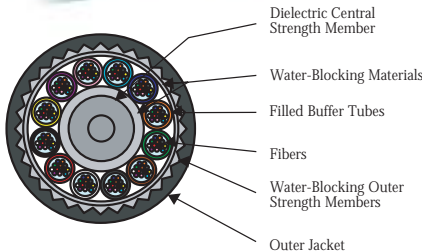
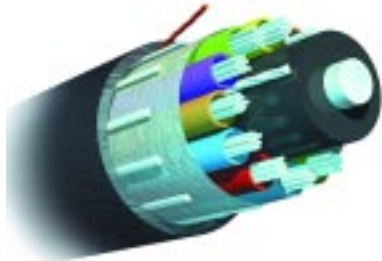
- Suitable for:
 - Intrabuilding links (ducted or direct burial) in a campus environment
 - Aerial links (when used with a messenger strand)
 - Local loop and feeder networks
 - Outdoor areas with intermittent flooding or moisture
 - Environments with severe temperature fluctuations
 - Drop or service cables
- High performance singlemode and multimode fibers meet all industry performance standards
- TIA color-coded fibers for easy identification
- Dry water-blocking technology
- Small diameter single tube construction saves space inside ducts
- Polyethylene UV-protected jacket for harsh outdoor environment
- Low friction jacket for ease of pulling through ducts
- All-Dielectric construction
- Designed and tested in accordance with TIA/EIA-568-B, Telcordia GR-20-CORE, IEC 793-1/794-1, ICEA-640 and ISO/IEC 11801:2000
- Compatible with Splitter Kits [see page 12]

Dielectric Single Loose Tube

Fiber Count	Unit Count Units (Fibers/Unit)	Fiber Type	UL/NEC AMP NETCONNECT		Weight kg/km (lb/kft)	Diameter mm (in)	Tensile Load N (lbf)		Bending Radius mm (in)	
			Ratings	Part Number			Installation	Long Term	Installation	Long Term
4	1 (4)	Singlemode	OSP	0-1664211-5	32 (22)	6.0 (0.24)	1000 (220)	890 (200)	100 (3.9)	60 (2.4)
		Multimode 50/125µm	OSP	2-1664212-5						
		XG Multimode 50/125µm	OSP	8-1664212-5						
		Multimode 62.5/125µm	OSP	1-1664213-5						
6	1 (6)	Singlemode	OSP	0-1664214-5						
		Multimode 50/125µm	OSP	2-1664215-5						
		XG Multimode 50/125µm	OSP	8-1664215-5						
		Multimode 62.5/125µm	OSP	1-1664216-5						
8	1 (8)	Singlemode	OSP	0-1664217-5						
		Multimode 50/125µm	OSP	2-1664218-5						
		XG Multimode 50/125µm	OSP	8-1664218-5						
		Multimode 62.5/125µm	OSP	1-1664219-5						
12	1 (12)	Singlemode	OSP	0-1664220-5						
		Multimode 50/125µm	OSP	2-1664221-5						
		XG Multimode 50/125µm	OSP	8-1664221-5						
		Multimode 62.5/125µm	OSP	1-1664222-5						

Note: Other cable designs (including hybrid) available. Call for more information.

Outside Plant (OSP) Dielectric, 24-144 Fiber



**OSP All-Dielectric Stranded Loose Tube
Fiber Optic Cable**

Product Facts

- Suitable for
 - Intrabuilding links in a campus environment (ducted or direct burial)
 - Aerial links (when used with a messenger strand)
 - Local loop and feeder networks
 - Outdoor areas with intermittent flooding or moisture
 - Environments with severe temperature fluctuations
 - Drop or service cables
- High performance singlemode and multimode fibers meet all industry performance standards
- TIA color-coded fibers in TIA color-coded gel-filled buffer tubes for easy identification
- Dry water-blocking technology
- Polyethylene UV-protected jacket for harsh outdoor environment
- Low friction jacket for ease of pulling through ducts
- All-dielectric construction
- Hybrid cables provide a built-in upgrade for future applications that will require singlemode fibers
- Designed and tested in accordance with TIA/EIA-568-B, Telcordia GR-20-CORE, IEC 793-1/794-1, ICEA-640 and ISO/IEC 11801:2000
- Compatible with Splitter Kits [see page 12]

Dielectric Stranded Loose Tube

Fiber Count	Unit Count Units (Fibers/Unit)	Fiber Type	UL/NECAMP Ratings	NETCONNECT Part Number	Weight kg/km (lb/kft)	Diameter mm (in)	Tensile Load N (lbf)		Bending Radius mm (in)	
							Installation	Long Term	Installation	Long Term
24	2 (12)	Singlemode	OSP	0-1664190-5	100 (68)	11.6 (0.46)	2700 (600)	890 (200)	232 (9.2)	116 (4.6)
		Multimode 50/125µm	OSP	2-1664191-5						
		XG Multimode 50/125µm	OSP	8-1664191-5						
		Multimode 62.5/125µm	OSP	1-1664192-5						
	1 SM (12) 1 MM (12)	Hybrid Singlemode-62.5/125µm	OSP	4-1664208-5						
36	3 (12)	Singlemode	OSP	0-1664193-5	100(68)	11.6 (0.46)	2700 (600)	890 (200)	232 (9.2)	116 (4.6)
		Multimode 50/125µm	OSP	2-1664194-5						
		XG Multimode 50/125µm	OSP	8-1664194-5						
		Multimode 62.5/125µm	OSP	1-1664195-5						
	1 SM (12) 2 MM (12)	Hybrid Singlemode-62.5/125µm	OSP	4-1664209-5						
48	4 (12)	Singlemode	OSP	0-1664196-5	100(68)	11.6 (0.46)	2700 (600)	890 (200)	232 (9.2)	116 (4.6)
		Multimode 50/125µm	OSP	2-1664197-5						
		XG Multimode 50/125µm	OSP	8-1664197-5						
		Multimode 62.5/125µm	OSP	1-1664198-5						
	72	6 (12)	Singlemode	OSP						
Multimode 50/125µm			OSP	2-1664200-5						
XG Multimode 50/125µm			OSP	8-1664200-5						
Multimode 62.5/125µm			OSP	1-1664201-5						
2 SM (12) 4 MM (12)		Hybrid Singlemode-62.5/125µm	OSP	4-1664210-5						
96	8 (12)	Singlemode	OSP	0-1664202-5	160 (110)	14.4 (0.57)	2700 (600)	890 (200)	288 (11.4)	144 (5.7)
		Multimode 50/125µm	OSP	2-1664203-5						
		XG Multimode 50/125µm	OSP	8-1664203-5						
		Multimode 62.5/125µm	OSP	1-1664204-5						
144	12 (12)	Singlemode	OSP	0-1664205-5	250 (170)	18.0 (0.7)	2700 (600)	890 (200)	360 (14.2)	180 (7.1)
		Multimode 50/125µm	OSP	2-1664206-5						
		XG Multimode 50/125µm	OSP	8-1664206-5						
		Multimode 62.5/125µm	OSP	1-1664207-5						

Note: Other cable designs (including hybrid) available. Call for more information.



Product Facts

- Designed for use with AMP NETCONNECT Indoor/Outdoor and Outside Plant Fiber Optic Cables
- One design for Single Loose Tube Cables and another for Stranded Loose Tube Cables

Buffer Tube Splitter Kits

Description		Part Number
Stranded Loose Tube	6-Fiber	1435018-1
	12-Fiber	1435019-1
Single Loose Tube	6-Fiber	1435020-1
	12-Fiber	1435021-1

In the U.S. 1-800-553-0938
Canada 905-475-6222
Mexico 525-729-0400
South and Central Americas 54-11-4733-2200
www.ampnetconnect.com
 e-mail: networking.help@tycoelectronics.com

©Copyright 2002 Tyco Electronics Corporation. All rights reserved.
 AMP, AMP NETCONNECT, AMPTRAC, NETCONNECT and Tyco are trademarks. ITRACS is a trademark of ITRACS Corporation. Other products, logos, and Company names mentioned herein may be trademarks of their respective owners.
 1654200-pdf-DB-pdf-8/02 Printed in USA