

# 2-24 Tight Buffered, Aluminum Interlocking Armored Cable Plenum

[www.TheLightConnection.com](http://www.TheLightConnection.com)

## Features and Benefits

- Provides superior crush resistance for added protection
- Eliminates the need for inner duct or conduit thus saving installation time
- OFCR and OFCP ratings allow AIA products to be installed throughout the facility

## Description

The Light Connection, Inc. 2 to 24 fiber Tight Buffered Aluminum Interlocking Armored cable consists of a PVC overall jacket, PVC inner jacket with a standard TLC 2 to 24 fiber Distribution or Indoor/Outdoor core cable (Ask your TLC representative for core cable specifications). The core cable is protected by a spirally-wrapped aluminum strip that offers easy installation and high crush resistance.

TLC Tight Buffered AIA Cable is available in 12 TIA standard colors or special-order colors. UL Listed OFCP cables are available, and unrated cables may be supplied to accommodate special needs. Standard surface print denotes construction, NEC rating, and fiber type, and includes footage markers.

Custom print may also be accommodated.

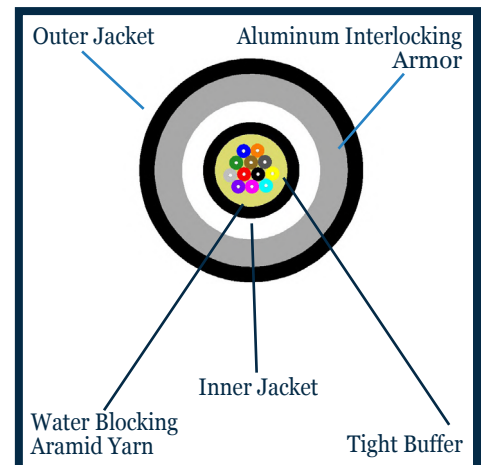
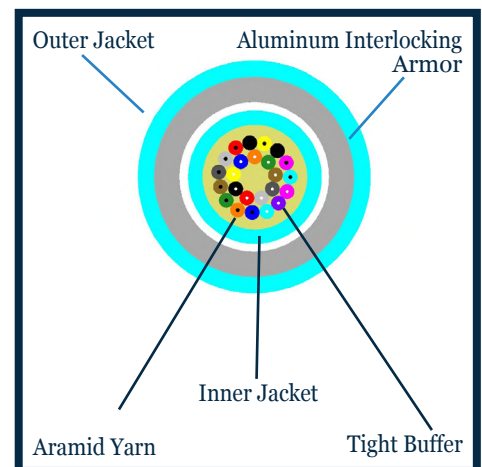
## Application

Plenum

Duct

## Flame Rating

NFPA 262



# SPECIFICATIONS

Temperature Range	Indoor	Indoor/Outdoor
Storage Temperature	-40 C to +70 C	-40 C to +70 C
Operating Temperature	0 C to +70 C	-40 C to +70 C

Cable Characteristics	
Fiber Count	2 to 24
Strength Member	Aramid Yarn
Overall Jacket Material	Poly Vinyl Chloride
Inner Jacket Material	Poly Vinyl Chloride
Armoring Material	Aluminum

Mechanical Characteristics	Value (2/ 4, 6/ 8, 12/ 24 fiber count)
Nominal Outer Diameter (mm)	11.6/ 13.0/14.7/ 16.2
Bend Radius (cm)	23.2/ 26.0/ 29.4/ 32.4
Weight (lbs/ km)	291/ 332/ 344/ 406/ 434/ 490

Optical Characteristics						
Items	Single Mode	OM1	OM2	OM3	OM4 (OM4+)	OM5 (WB MMF)
Core Size [µm]	9	62.5	50	50	50	50
Wavelength [nm]	1310/ 1550	850/ 1300	850/1300	850/ 1300	850/ 1300	850/ 1300
Max. Attenuation[dB/km]	0.5/ 0.4	3.5/ 1.5	3.5/1.5	3.0/ 1.0	3.0/ 1.0	3.0/ 1.0
Link Length[m]	10,000/5,000 (1/10Gb/s@1550nm)	300 (1Gb/s@850nm)	150 (10Gb/s@850nm)	300 (10Gb/s@850nm)	550(600) (10Gb/s@850nm)	550 (10Gb/s@850nm)
Bandwidth (EMB High Performance)[MHz.km]	–	220 @850	750@850	2,000 @850	4,700 @850	4,700@850

Part Numbers					
Fiber Count	Single Mode	OM1	OM2	OM3-OM4	OM5 (WB MMF)
2 / 4	S09DI/IO###NPY44-AIA2	M62DI/IO###NPO*-AIA2	M50DI/IO###NPO*-AIA2	M50DI/IO###NPA*-AIA2	M50DI/IO###NPLG*-AIA2
6 / 8 / 12	S09DI/IO###NPY*-AIA2	M62DI/IO###NPO*-AIA2	M50DI/IO###NPO*-AIA2	M50DI/IO###NPA*-AIA2	M50DI/IO###NPLG*-AIA2
24	S09DI/IO24**NPY78-AIA2	M62DI/IO24**NPO78-AIA2	M50DI/IO24**NPO78-AIA2	M50DI/IO24**NPA78-AIA2	M50DI/IO24**NPLG78-AIA2

Fiber Type (9/125)	**	Fiber Type (50/125)	**	Fiber Type (62.5/125)	**
SMF-28 Ultra	CZ	ClearCurve OM2	C2	InfiniCor 300	C3
ClearCurve LBL	C7	Clear Curve OM3	CG		
ClearCurve ZBL	CC	ClearCurve OM4	C4		
		ClearCurve OM5	C5		



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