

AT&T FiberLine Technical Specification

Cable Type: 2-fiber to 12-Fiber 50/125µ OM3 MM

LS0H Indoor Tight-Buffer Single-Unit FO Cables

AT&T P/N: 23NM3HAxxxS-TQxx-B1

Revision: 5 Date: 03 October 2018



Color coded 50/125µ OM3 Multimode tight-buffered fibers cabled together, served with aramid or glass yarn and jacketed with halogen-free, flame-retardant compound for indoor use. The cable conforms to EU Regulation 305/2011 (CPR) Class B2ca-s1a,d1,a1, it meets IEC 60332-1 flame test and it conforms to EU Directive 2011/65/EU (RoHS-II).

Physical Description

Basic optical fibers	50/125 µm Multimode conforming to ISO/IEC-11801 OM3, TIA-568-C.3, TIA/EIA-492 Type AAAC-A IEC 60793-2-10 Type A1a.2.
Optical transmission properties	See below
Core diameter	50 µm nom.
Clad diameter	125 ± 1.0 µm
Primary coating diameter	245 ± 10 µm
Proof test level	100 kpsi min.
Buffer coating	Tight LS0H compound.
Tight buffer OD	900±50 µm
Number of optical fibers	See below
Fibers Color code	See below
Core formation	Tight-coated color coded fibers cabled together and served with aramid or glass yarn.
Rip cord	Aramid rip-cord is laid in parallel for easy jacket removal.
Outer jacket	LS0H compound for indoor use.
Outer jacket thickness	1.0 mm nom.
Jacket color	Turquoise RAL 5018
Surface Marking	AT&T FiberLine XX 50/125µ OM3 MM FIBERS TIGHT INDOOR LS0H IEC 60332-1 CE EU 305/2011 (CPR) Class B2ca-s1a,d1,a1 CE 2011/65/EU (RoHS) [Hwwyy] [Meter Mark] METER --- P/N 23NM3HA0 XX S-TQ ---
Note:	XX to be replaced with the actual number of fibers in the cable

Mechanical Properties

IEC 60794-1-2 E11 Bend Radius during service	10xD mm min. Attenuation increase: 0.05dB max.
IEC 60794-1-2 E11 Bend Radius during installation	20xD mm min. Attenuation increase: 0.05dB max.
Temperature installation range	0 to +50C
Temperature operating range	-20 to +60C
IEC 60794-1-2 E1 Short term load	600N max. Attenuation increase: 0.05dB max.
IEC 60794-1-2 E1 Long term load	200N max. Attenuation increase: 0.05dB max.
IEC 60794-1-2 E3 Crush resistance	3000N/10cm min. Attenuation increase: 0.05dB max.
IEC 60794-1-2 E4 Impact resistance	5J, 3 impacts. No fiber break.
Flame Tests	IEC 60332-1 (Flame propagation IEC 60754 (Acod gas release) & IEC 61034 (Smoke generation)
EU Regulation 305/2011 (CPR) conformance	CENELEC EN 13501 Class B2ca-s1a,d1,a1. NB 1783

Transmission Properties of Cabled Fibers - OM3 ISO/IEC-11801 & TIA-568-C.3

Wavelength	Max. Attenuation	Min. Overfilled Modal Bandwidth	Min. Effective Modal Bandwidth
850nm	3.5 dB/km	1500 MHz·km	2000 MHz·km
1300nm	1.5 dB/km	500 MHz·km	500 MHz·km

Optional Constructions

Description	Fiber Count	Cable OD mm	Weight kg/km	Packaging	P/N
2-Fiber 50/125µ OM3 MM LS0H Indoor Tight-Buffer FO Cable	2	4.5	24	2000m Drum	23NM3HA002S-TQ2N
4-Fiber 50/125µ OM3 MM LS0H Indoor Tight-Buffer FO Cable	4	4.5	27	2000m Drum	23NM3HA004S-TQ2N
6-Fiber 50/125µ OM3 MM LS0H Indoor Tight-Buffer FO Cable	6	5.6	34	2000m Drum	23NM3HA006S-TQ2N
8-Fiber 50/125µ OM3 MM LS0H Indoor Tight-Buffer FO Cable	8	6,0	39	2000m Drum	23NM3HA008S-TQ2N
10-Fiber 50/125µ OM3 MM LS0H Indoor Tight-Buffer FO Cable	10	6.3	42	2000m Drum	23NM3HA010S-TQ2N
12-Fiber 50/125µ OM3 MM LS0H Indoor Tight-Buffer FO Cable	12	6.6	46	2000m Drum	23NM3HA012S-TQ2N

Color Code

#	Color	#	Color	#	Color	#	Color	#	Color	#	Color
1	Blue	2	Orange	3	Green	4	Brown	5	Gray	6	White
7	Red	8	Black	9	Yellow	10	Violet	11	Pink	12	Aqua