

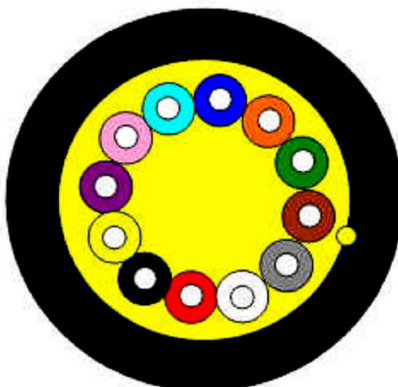


Technical Specification

12x9/125µm Singlemode G.657.A1 MTD Indoor LS0H FO Cable

Part Number: NA1-01201-xx7-BB

Revision 03/20 Date: 29 June 2020



12x9/125µm ITU-T G.657.A1 Bend-Insensitive Singlemode color coded tight buffered optical fibers cabled together, served with aramid yarn and jacketed with LS0H (HFFR) jacket for indoor use. The cable conforms to EU Regulation 305/2011 (CPR) Class B2ca-s1a,d1,a1.

Cable Construction

Optical fibers	9/125 µm ITU-T G.657.A1 Bend-insensitive Category A1 (MBR: 10mm).
Optical transmission properties	See below
Core diameter	See MFD below.
Clad diameter	125±0.7 µm
Cladding non-circularity	1% max.
Core/Cladding concentricity error	0.5 µm max.
Coating/Cladding concentricity error	12 µm max.
Primary coating diameter	245±10 µm
Proof test level	0.69 Gpa
Macro bending - 100 turns	0.05 dB max. IL at 1310/1550 nm @50mm 0.05 dB max. IL at 1625 nm @ 60 mm
Buffer coating	Semi-Tight LS0H compound.
Tight buffer OD	900±50 µm
Number of optical fibers	12
Fibers Color code	Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Pink, Turquoise
Note	The color code is applied to both the bare (250u) fibers and the tight coating.
Core formation	Tight-coated color coded fibers cabled together and served with aramid yarn
Rip cord	Aramid rip-cord is laid in parallel for easy jacket removal
Outer jacket	LS0H (HFFR) compound for indoor use
Jacket thickness	0.9±0.2 mm
Jacket color	Black RAL 9005
Outer diameter	7.5 mm nom.
Cable weight	45 kg/km
Surface Marking	HCS NA1-01201 MTD 12x9/125µ ITU-T G.657.A1 SM INDOOR FO LS0H LAN CABLE FR IEC 60332-1 CE CPR Class B2ca-s1a,d1,a1 CE 2011/65/EU (RoHS-2) [Hwwyy] [Meter Mark] METER - LGCE -

Mechanical Properties

Physical Properties	Value	Test Method
Tensile strength - short term	1500 N max. No fiber break.	IEC-60794-1-2 E1
Tensile strength - long term	750 N max. No fiber break.	IEC-60794-1-2 E1
Tight buffer stripability	10 cm min. buffer length strippable without damaging the fiber	IEC 60793-1-32
Compressive load (crush resistance)	1000 N/10cm max. No fiber break.	IEC-60794-1-2 E3
Impact	10J max, 3 impacts. No fiber break.	IEC-60794-1-2 E4
Bend radius	10xD min. IL increase: 0.05dB	IEC-60794-1-2 E11
Temperature cycling	-30 to +60°C. Max. IL increase: 0.05dB	IEC-60794-1-2 F1
Storage Temperature range	-20 to +70°C	-
Installation Temperature range	-5 to +50°C	-
Operating Temperature range	-10 to +50°C	-
Flame test	IEC 60332-1-2 & IEC 60332-1-3	IEC 60332-1
Acid gas	IEC 60754	IEC 60754
Smoke density	IEC 61034	IEC 61034
EU Regulation 305/2011 (CPR) conformance	Class B2ca-s1a,d1,a1. NB 1783	EN 13501

Optical Transmission Properties

Fiber	Fiber Type	Standards & basic properties	Attenuation dB/km			MFD		
			@1310nm	@1385nm	@1550nm	@1310nm	@1385nm	@1550nm
			Max	Max	Max	µm	µm	µm
A1	9/125µm Single Mode Optical Fiber	ITU-T G.657.A1 Bend Insensitive Zero dispersion wavelength: 1302-1322 nm Cable cutoff wavelength: 1260 nm max.	0.50	0.50	0.50	9.2±0.3	9.6±0.6	10.4±0.5

This cable fully conforms to EU Directive 2011/65/EU (RoHS-2)