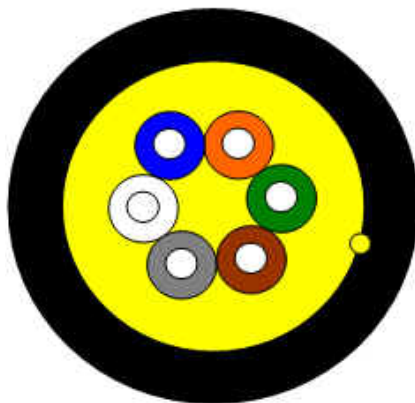




HES Cabling Systems

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Technical Specification
6x50/125µm Multimode OM3 MTD Indoor LS0H FO Cable
Part Number: N54-00601-xx7-BB
Revision 03/21 Date: 16 June 2021



6x50/125µm OM3 Multimode 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 fiber	50/125µm Multimode OM3 - ISO/IEC 11801 - TIA-492 AAAC-B A1a.2 - IEC 60793-2-10 - ANSI/TIA-568.3-D-1
Core diameter	50±3.0 µm
Clad diameter	125±2.0 µm
Cladding non-circularity	2% max.
Core/Cladding concentricity error	3.0 µm max.
Primary coating diameter	245±15 µm
Proof test level	100 kpsi min.
Buffer coating	Tight LS0H compound.
Tight buffer OD	900±50 µm
Number of optical fibers	6
Fibers Color code	Blue, Orange, Green, Brown, Grey, White
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	6.8 mm nom.
Cable weight	35 kg/km
Surface Marking	HCS N54-00601 MTD 6x50/125µ OM3 MM ANSI/TIA-568.3-D ISO/IEC-11801 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 - during installation	750 N max. No fiber break.	IEC-60794-1-21 E1
Tight buffer stripability	5 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-60794-1-21 E3
Impact	10J max, 3 impacts. No fiber break.	IEC-60794-1-21 E4
Bend radius	10xD min. IL increase: 0.05dB	IEC-60794-1-21 E11
Temperature cycling	-20 to +60°C. Max. IL increase: 0.05dB	IEC-60794-1-22 F1
Storage Temperature range	-20 to +70°C	-
Installation Temperature range	0 to +50°C	-
Operating Temperature range	-20 to +60°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 P/N	Multimode Fiber Type	Multimode Fiber Grade & Standard	Attenuation (dB/km)				Min. Bandwidth (MHz·km)		Min. Bandwidth (MHz·km)		Numerical Aperture
			850nm		1300nm		850nm	1300nm	850nm	1300nm	
			Nom	Max	Nom	Max	OFL		Laser EMB		
54	50/125μm	OM3 - ISO/IEC 11801 TIA-568.3-D-1 TIA-492 AAAC-B A1a.2 IEC 60793-2-10	2.6	3.0	0.8	1.5	1500	500	2000	500	0.200±0.020

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