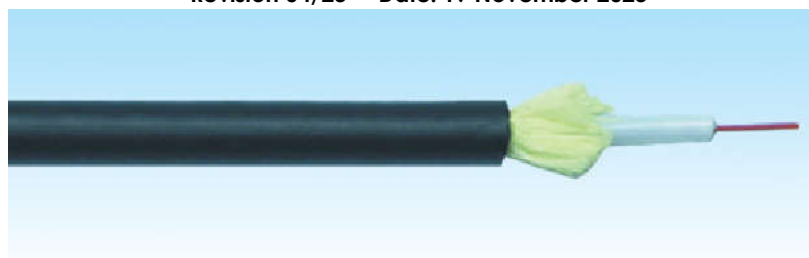


Technical Specification

Nx50/125μ MM OM4 All-dielectric Single-Loose-Tube Indoor/outdoor LS0H FO Cable

P/N: S56-xxx01-xx7

Revision 04/23 Date: 19 November 2023



Color coded OM4 Multi-mode bare fibers contained in a single jell-filled loose tube, overall served with water-blocking swellable glass yarn and jacketed with Black LS0H compound for indoor or outdoor use in conduits.

Fiber type & transmission characteristics

Fiber Type	OM4 - 50/125 μm Graded index multimode conforming to ISO/IEC 11801 & TIA-568-C.3 OM4	
Core diameter	50 μm nom.	
Clad diameter	125 ± 1.0 μm	
Primary coating diameter	245 ± 10 μm	
Numerical Aperture	0.200±0.015	
Fibers attenuation (cabled)	Max. 3.0 dB/km @ 850nm	Max. 1.0 dB/km @ 1300nm
Min. Bandwidth - OFL	3500 MHz*km @ 850 nm	500 MHz*km @ 1300 nm
Min. Bandwidth - EMB	4700 MHz*km @ 850 nm	500 MHz*km @ 1300 nm

Cable Construction

Tube material	PBT, Natural color
Tube filling	Thixotropic jelly
Fibers 1-12 solid color	Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Purple, Pink, Turquoise
Fibers 13-24 solid color with black tracers	Blue, Orange, Green, Brown, Grey, White, Red, *Natural (*without tracer), Yellow, Purple, Pink, Turquoise
Core formation	Color coded bare fibers contained in a single jell-filled loose tube
Strength elements over the loose tube	Served swellable glass yarn, providing longitudinal water blocking
Rip cords	Two Polyester cords laid in 180° orientation for easy jacket removal. Red, DTX2000
Outer jacket	UV-Resistant LS0H compound suitable for indoor or outdoor use
Outer jacket color	Black , RAL 9005
Surface marking	HCS S54-xxx01 1XN SLT Nx50/125μ OM3 IEC 60332-1 INDOOR/OUTDOOR LS0H FO CABLE CE 2011/65/EU (RoHS-2) [Month, Year] [Batch No.] [Meter Mark] METER

Cable PN	Fiber count	Tube nom. OD. (mm)	Jacket thickness (mm)	Cable nom. OD. (mm)	Cable nom. weight (kg/km)
S56-00601-xx7	6	1.8/2.6	1.2 nom., 1.0 min.	5.9	32
S56-01201-xx7	12	1.8/2.6	1.2 nom., 1.0 min.	5.9	38
S56-02401-xx7	24	2.0/2.8	1.2 nom., 1.0 min.	6.1	55

Physical Properties

	Value	Test Method
Tensile strength (during installation)	1000 N max. Max. loss 0.05 dB	IEC-60794-1-21 E1
Tensile strength (during operation)	600 N max. Max. loss 0.05 dB	IEC-60794-1-21 E1
Impact resistance	5J, 3 Impacts. No fiber break	IEC-60794-1-21 E4
Crush resistance	2000 N/10cm. No fiber break	IEC-60794-1-21 E3
Bend radius (during installation)	20xD min.	IEC 60794-1-21 E11
Bend radius (during operation)	10xD min.	IEC 60794-1-21 E11
Longitudinal water blocking	3m length in 24 hours. No water leak	IEC-60794-1-22 F5
Fire tests	IEC 60223-1, IEC 60754-2, IEC 61034-2	IEC 60223-1, IEC 60754-2, IEC 61034-2
Installation temperature	-5 to +60°C	-
Operation temperature	-20 to +70°C	-
Storage temperature	-40 to +70°C	-

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