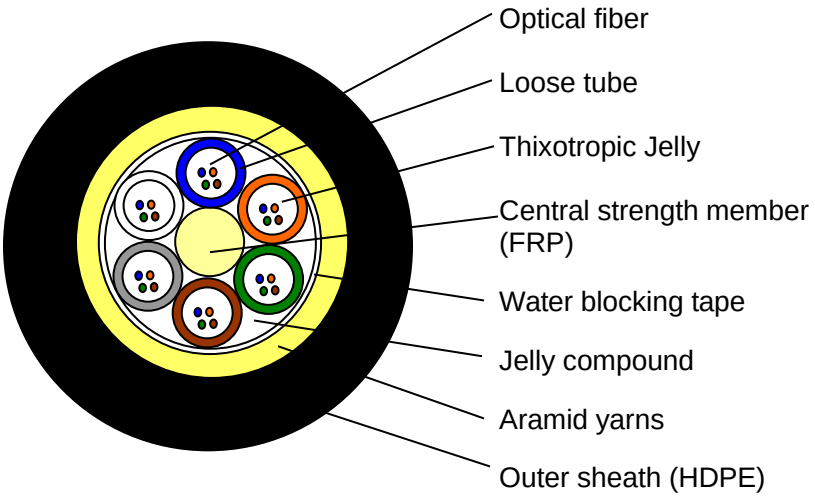
NEWLINK
Cabling Systems

NEW-9440048

48-Fiber ADSS Single mode



Features:

- ADSS (nonmetallic Cable)
- Applications: Aerial and Duct installations
- Singlemode

Product Description:

Technical specifications for Aerial and Duct Application NonMetallic type cable. This specification covers the general requirements and performance of cable, which FOC offered including optical characteristics, mechanical characteristics and geometrical characteristics.

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Optical fiber characteristics (FPC G.652 FIBER)

Category	Description		Specifications
			G.652D
Optical Specifications	Attenuation	@1310nm	≤0.36dB/km
		@1550nm	≤0.22dB/km
	Attenuation discontinuity		≤0.05 dB
	Attenuation vs. Wavelength	1285~1330 @1310nm	≤0.05 dB/km
		1525~1575 @1550nm	≤0.05 dB/km
	Zero Dispersion Wavelength		1300~1324nm
	Zero Dispersion Slope		≤0.092ps/(nm^2.km)
	Dispersion	@1310nm	≤3.5 ps/nm.km
		@1550nm	≤18 ps/nm.km
	Cable Cutoff Wavelength(λcc)		≤1260nm
	Effective Group Index of Refraction	@1310nm	1.4675
		@1550nm	1.4681
Geometric Specifications	Mode Field Diameter	@1310nm	9.2±0.6μm
		@1550nm	10.4±0.8μm
	Cladding Diameter		125±1μm
	Cladding NonCircularity		≤1.0%
	Coating Diameter		245±7μm
	Coating/Cladding Concentricity Error		≤12μm
	Core/Cladding Concentricity Error		≤0.8μm
Mechanical Specifications	Proof Test level		≥1.0%
	Fiber Curl Radius		≥4.0m
	Peak Coating Strip Force		1.3~8.9N

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Cable type		9440048
element		6
Central Strength Member	Material	Fiberglass Reinforce with Plastic (FRP)
Loose Tube	Material	Polybutelene Terephthalate (PBT)
	Diameter	Nom.2.3 mm
		8 Fibers per Tube
Filling compound in loose tube	Material	Thixotropic jelly
Water Blocking Material	Material	Jelly and Water blocking tape
Strength Member	Material	Aramid yarns
Outer Sheath	Material	HDPE
	Thickness	Nom.2.0 mm
Overall Diameter	mm	**.Nom.12.0
Weight	kg/km	116
Max.Tensile strength	N	2000

Fiber coding:

No. of fiber	1	2	3	4	5	6
Color of fiber	Blue	Orange	Green	Brown	Grey	White
No. of fiber	7	8				
Color of fiber	Red	Black				

Identification of optical tube

No. of tube	1	2	3	4	5	6
Color of tube	Blue	Orange	Green	Brown	Grey	White

Makeup of cable, No. of Fibers in each Tube

No.of Fibers	No.of Tube		1	2	3	4	5	6
48B1	6	Tube color	Blue	Orange	Green	Brown	Grey	White
		No. of fiber	8B1	8B1	8B1	8B1	8B1	8B1

TEST REQUIREMENTS

No	Item	Test standard	Method	Acceptance criteria
1	Tensile test	IEC607941E1	Max. Tensile strength:2000N Sample length:50 meters Time: 1minutes;	Fiber strain at maximum Load: max. 0.33% Attenuation increase≤0.10dB
2	Crush test	IEC607941E3	Load:1000N Time: 1 minutes Length: 100mm	No splits or cracks in the outer jacket; Attenuation increase<0.10dB,
3	Impact test	IEC607941E4	Impact energy: 450g Height:1 meter	No splits or cracks in the outer jacket

			Impact points: min.1 Number of impacts: 5	Attenuation increase≤0.10dB(after the test)
4	Torsion test	IEC607941E7	1m cable length with 150N weight ±180°, 10 cycles	No splits or cracks in the outer jacket Attenuation increase ≤0.10B
5	Repeated bending	IEC607941E6	R=20×cable outer diameter 1m cable length with 150N weight,30 cycles	No splits or cracks in the outer jacket Attenuation increase ≤0.10dB(after the test)
6	Temperature cycling test	IEC607941F1	Temperature step: +20℃→40℃→+60℃→40℃→+60℃→+20℃ Time per each step: 12 hrs Number of cycles: 2 cycles	Attenuation variation for reference value(the attenuation to be measured before test at +20±3℃) ≤0.10dB/km,
7	Water penetration test	IEC607941F5	Water height: 1m Sample length:3m Duration of test: 24hrs	No water leakage at the end of the sample
8	Drip test	IEC607941E14	Five 0.3m samples suspended vertically in a climate chamber, raised temperature to +70℃	No filling compound shall drip from tubes after 24 hr

Ordering Information:

Part Number	Description
NEW-9440048	48-Fiber ADSS Singlemode (sells in 2Km reels only)