

306-NMA7XX-Y0LS

Fiber Optic Cable 9/125 Single Mode Indoor/Outdoor Non-Metallic Armored, LSZH Jacket



DESCRIPTION

The fibers, either single mode or multimode type, are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a waterresistant filling compound. A Fiber Reinforced Plastic (FRP) locates in the center of the core as a non-metallic strength member. Tubes (and fillers) are stranded around the strength member into a compact and circular cable core. The cable core is filled with filling compound and covered with a thin layer of LSZH inner sheath. A layer of Aramid yarn is applied around the cable core as armoring as well as additional strength member. The cable is completed with a Outer Fire Retardant LSZH sheath.

APPLICATION

This cable is suitable for Indoor or Outdoor Direct Burial, Tunnel and Duct environment for metropolitan network and access network, where metallic element is not allowed. It is commonly used for high voltage and low voltage crossing route. The Outer Sheath is LSZH.

STANDARDS

EN 50173: 2002 category OM1/OM2, ISO/IEC 11801: category OM1/OM2, ANSI/TIA/EIA 568.2: 2002, ANSI/TIA/EIA 568.3: 2002, ANSI X3.166-1990, IEC 9314-3, IEC 60793-2-10, ITU Recommendation G652, G652A/B/C/D, IEC 60793-2-50, IEC 60794-1, Type 1/B1.3/B4.

CHARACTERISTICS

- Accurate fiber excess length ensures good mechanical and temperature performance.
- High strength loose tube that is hydrolysis resistant and special tube filling compound ensure a critical protection of fiber.
- Specially designed compact structure is good at preventing loose tube from shrinking.
- Crush resistance and flexibility.
- Aramid Yarn armoring.
- LSZH provides fire resistance meet IEC 60332.
- Single Fiber Reinforced Plastic (FRP) used as the central strength member.
- Loose tubes are filled with filling compound to ensures tubes are watertight.
- 100% cable core filling ensures cable is watertight.

Physical Properties

Sheath Thickness

Outer Sheath Thickness (mm)	Inner Sheath Thickness (mm)
Nominal 1.0	Nominal 1.0

FRP Diameter

FRP Diameter (mm)
2.25

Loose Tube Diameter & Thickness

Loose Tube Diameter (mm)	Loose Tube Thickness (mm)
2.1	0.3

Crush Resistance

Crush Resistance (N/100mm)	
Long Term	Short Term
300	1000

Tensile Strength

Tensile Strength (N)	
Long Term	Short Term
600	1500

Bending Radius

Bending Radius (mm)	
Static	Dynamic
10 x Outer Diameter	20 x Outer Diameter

Operating & Storage Temperature

Operating Temp.	Storage Temp.
-40°C to +70°C	-40°C to +70°C

CABLE PROPERTIES

Fiber Count	No. of Tubes	No. of Fillers	Cable Ø (mm)	Cable Weight (kg/km)
2~6	1	5	11.0	97
8~12	2	4	11.0	97
14~18	3	3	11.0	97
20~24	4	2	11.0	97
26~30	5	1	11.0	97
32~36	6	0	11.0	97

Fibers Colour

Fiber No.	1	2	3	4	5	6	7	8	9	10	11	12
Colour	Blue	Orange	Green	Brown	Grey	Natural	Red	Black	Yellow	Violet	Pink	Aqua

Loose Tubes Colour

Fiber No.	1	2	3	4	5	6	7	8	9	10	11	12
Colour	Blue	Orange	Green	Brown	Grey	Natural	Red	Black	Yellow	Violet	Pink	Aqua

OPTICAL PROPERTIES

Attenuation @20°C

Attenuation	
@ 1310 nm	@ 1383 nm
≤ 0.35 dB/km	≤ 0.35 dB/km

Cable Cut-off Wavelength

Cable Cut-off Wavelength
≤ 1260 nm

Group Index Of Refraction

Group Index Of Refraction (Neff)	
@ 1310 nm	@ 1550 nm
1.466	1.467

Part Number

306-NMA7XX-Y0LS Fiber Optic Cable 9/125 μ Multimode Indoor/Outdoor Non-Metallic Armored, LSZH Jacket

Note :

Substitute XX is number of fiber cores.

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