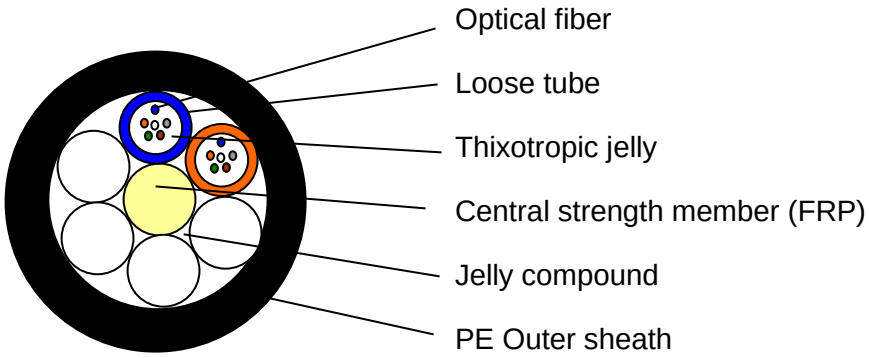
NEWLINK
Cabling Systems

NEW-946YXXX

Loose Tube Multimode Outdoor



Features:

- Outdoor Use Only
- Lashed aerial, cable tray or duct
- Loose-tube construction
- Cost-effective
- Easy handling / easy termination
- Ideal for Inter-building backbones

This specification covers the general requirements and performance of cable, including optical characteristics, mechanical characteristics and geometrical characteristics and etc.

NEWLINK
Cabling Systems

NEW-946YXXX

Structure			Parameter
Fiber count		Fibers	4-24
Central Strength Member		Material	Fiberglass Reinforce with Plastic(FRP)
Loose Tube Diameter		mm	2.2
Fibers per Tube		--	Max. 6
Element		--	6(2LT+4FR)
Filling compound in loose tube		Material	Thixotropic jelly
Water Blocking Material		--	Jelly
Outer Sheath		Material	PE
Cable Diameter		mm	**.Nom.10.9
Cable thickness		mm	*.Nom.2.0
Weight		kg/km	Approx.99
Tensile strength	Long term	N	600
	Short term	N	1500
Crush Resistance	Long term	N	300
	Short term	N	1000
Bending Radius	Dynamic	--	≥25×Cable Diameter
	Static	--	≥12.5×Cable Diameter

* The nominal sheath thickness may have a tolerance with ±0.2mm.
* * The nominal diameter may have a tolerance with ±0.4m

Fiber coding*: The color coding of the optical fiber shall be in accordance with this table:

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

Identification of optical tube*

No. of tube	1	2				
Color of tube	Blue	Orange				

TEST REQUIREMENTS

No	Item	Test standard	Method	Acceptance criteria
1	Tensile test	IEC-60794-1-E1	-Max. Tensile strength:1500N -Sample length:50 meters -Time: 1minutes;	-No fiber break; -Attenuation increase≤0.10dB
2	Crush test	IEC-60794-1-E3	-Load:1000N -Time: 1 minutes -Length: 100mm	-No splits or cracks in the outer jacket; -Attenuation increase<0.10dB,
3	Impact test	IEC-60794-1-E4	-Impact energy: 450g - Height:1 meter -Impact points: min.1 --Number of impacts: 5	-No splits or cracks in the outer jacket -Attenuation increase≤0.10dB（After the test）
4	Repeated bending	IEC-60794-1-E6	-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）
5	Torsion test	IEC-60794-1-E7	-1m cable length with 150N weight -±90 degrees, 10 cycles	- No splits or cracks in the outer jacket -Attenuation increase ≤0.10B（After the test）
6	Bending test	IEC-60794-1-E11	-Diameter of mandrel: 20×D -Number of turns/helix:10 -Number of cycles: 5	- No splits or cracks in the outer jacket - No fiber break

7	Temperature cycling test	IEC-60794-1-F1	-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,
8	Water penetration test	IEC-60794-1-F5	-Water height: 1m -Sample length:3m -Duration of test: 24hrs	-No water leakage at the end of the sample
9	Drip test	IEC-60794-1-E14	-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-9468XXX	Loose tube fiber optic cable multimode 62.5um Outdoor
NEW-9469XXX	Loose tube fiber optic cable multimode 50um Outdoor

Replace xxx with the required fiber count.
Minimum Order: 2Km