Central Loose Tube Armored outdoor cable

GYXTW

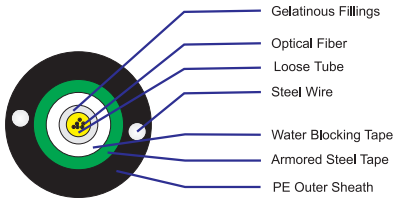
Application

Long distance and Local Artwork(LAN) communication.

Laying Method

- Self-support Aerial Installation

Features



- 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 tubes from shrinking.
- The loose tubes and all interstices of cable core filled with moisture-proof and water blocking compound ensure no longitudinal water ingress.
- Two parallel steel wires ensure tensile strength.
- Small diameter, light weight and friendly installation.
- Polyethylene outer jacket can resist deterioration from ultra-violet (UV) rays.

Parameter

Fiber Count	Outerside Diameter	Nominal Weight	Min. Bend Radius		Max. Tensile Strength		Max. Crush Resistance	
			Loaded	Installed	Short Term	Long Term	Short Term	Long Term
	mm	kg/km	mm	mm	N	N	N/100mm ^{2}	
2	8.0±0.3	62	20D	10D	1500	500	3000	1000
4	8.0±0.3	62	20D	10D	1500	500	3000	1000
6	8.0±0.3	62	20D	10D	1500	500	3000	1000
8	8.0±0.3	62	20D	10D	1500	500	3000	1000
12	8.0±0.3	62	20D	10D	1500	500	3000	1000

Environmental characteristics

ITEM	CHARACTERISTICS
Operation Temperature	-40℃~+70℃
Storage Temperature	-40℃~+70℃

Single-mode Fiber

Item	Unit		Specification
Attenuation	dB/km	@ 1310 nm @ 1550 nm	≤0.4 ≤0.3
Dispersion coefficient	ps/(nm·km)	1285~1330nm 1550nm	≤3.5 ≤18.0
Zero dispersion wavelength	nm		1300~1324
Zero dispersion slope	ps/(nm.km)		≤ 0.095
Fiber cutoff wavelength	nm		≤ 1260
Mode field diameter	um		9.2±0.5
Mode field concentricity	um		≤0.8
Cladding diameter	um		125±1.0
Cladding non-circularity	%		≤1.0
Coating / cladding concentricity error	um		≤12.5
Coating diameter	um		245 ±10
Bending, dependence induced attenuation	dB		(1550nm,1turns,32mm diameter) ≤0.5 (1550nm,100turns,60mm diameter) ≤0.5
Proof test (off line)	kpsi		≥100

Multi-mode Fibermethod

Item	Unit		Specification	
Attenuation	dB/km	@ 850 nm @ 1300 nm	⩽ 3.5 ⩽ 1.5	
Bandwidth	Mhz·km	@ 850 nm @ 1300 nm	⩾ 200(50/125μm) ⩾ 200(50/125μm)	⩾ 160(62.5/125μm) ⩾ 200(62.5/125μm)
Cladding diameter	um		125.0±1.0	
Cladding non-circularity	%		⩽ 1.0	
Coating / cladding concentricity error	um		⩽ 12.5	
Coating diameter	um		245±10	
Bending, dependence induced attenuation	dB	(850nm, 1300nm 100turns,75mm diameter)⩽ 0.50 at 850nm\1300nm		
Proof test (off line)	kpsi		≥100	

Notice: Using OM3 or OM4 , cable can reach 10G/40G high-speed transmission rate.

Standard Fiber Colour Identification

1	2	3	4	5	6	7	8	9	10	11	12
BL-Blue	OR-Orange	GR-Green	BR-Brown	GY-Grey	WH-White	RE-Red	BK-Black	YE-Yellow	PU-Purple	PI-Pink	AQ-Aqua

1. The colour arrangement of fibre type and tube is specified in the color identification table
2. Chromatography may be required by customer production