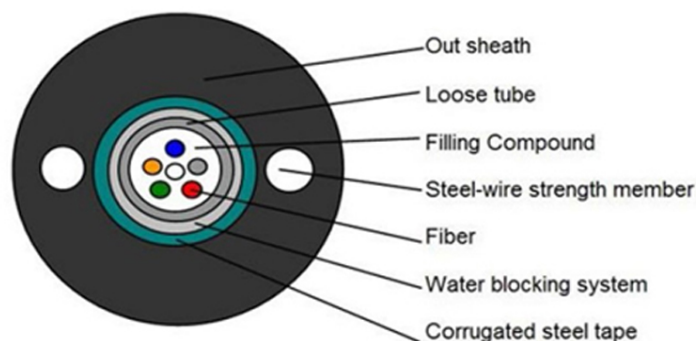


Armored Uni-Tube Optical Cable With Rodent Protection



Description

Armored Uni-Tube Single Jacket/Single Armor fiber optic cable with fibers placed in loose buffer tube. The cable core is protected with a corrugated steel tape armor and cover with a black polyethylene out jacket. Two embedded steel wire provide desire tension.

Product Construction

Fiber:

2-24 fibers

Uni-loose tube gel-filled

Armor:

Corrugated steel tape

Strength Member:

Embedded steel wire

Outer Jacket:

Black UV-and moisture-resistant polyethylene (PE).

Features

Uni-tube gel-filled construction for superior fiber protection.

Metallic armor to protect cable from rodent attack and mechanical damage. Embedded steel wire provide desirable tensile strength and crush resistance. Compact, easy to install. UV and moisture-resistant design.

Applications

Interbuilding voice or data communication. Installed in duct, underground conduit. FTTx.

Cable construction details

Number of fiber	1~24core	
Loose tube	material	PBT
	diameter	Φ2.2(outer/inner)
Tube-filling	Tube filling compoun	
Steel wire	size	0.8mm
	Number	2
Outer sheath	material	PE,HDPE,LDPE
	diameter	1.8±0.2mm

Fiber color

Number of fiber per tube 8cores	1	2	3	4	5	6
	Blue	Orange	Green	Brown	Grey	White
	7	8	9	10	11	12
	Red	Black	Yellow	Violet	Pink	Aqua
Color 13~24 will be marked with a black tracer.For black color no need marked black tracer, will use nature color instead.						

Cable Mechanical characteristic

core	Cable diameter	weight
1~24	8.0mm+/-0.3mm	65kg/km+/-10kg
Temperature range	-40+70	-----
Min Bending Radius(mm)	Long term	10D
Min Bending Radius(mm)	Short term	20D
Min allowable Tensile Strength(N)	Long term	1200
Min allowable Tensile Strength(N)	Short term	1500
Operation temperature (°C)	-40+70	
Installation temperature (°C)	-20+60	
Storage temperature (°C)	-40+70	

Fiber characteristic

Fiber style		Unit	SM G652	SM G652D	MM 50/125	MM 62.5/125	MM OM3-300
condition		nm	1310/1550	1310/1550	850/1300	850/1300	850/1300
attenuation		dB/km	≤	≤	≤	≤3.0/1.0	≤3.0/1.0
			0.36/0.23	0.34/0.22	3.0/1.0	----	----
Dispersion	1550nm	Ps/(nm*km)	----	≤18	----	----	Dispersion
	1625nm	Ps/(nm*km)	----	≤22	----	----	
Bandwidth	850nm	MHZ.KM	----	----	≥400	≥160	Bandwidth

	1300nm	MHZ.KM	----	----	≥ 800	≥ 500	
Zero dispersion wavelength		nm	1300-1324	≥ 1302 , ≤ 1322	----	----	≥ 1295 , ≤ 1320
Zero dispresion slope		nm	≤ 0.092	≤ 0.091	----	----	----
PMD Maximum Individual Fibr			≤ 0.2	≤ 0.2	----	----	≤ 0.11
PMD Design Link Value		Ps(nm ² *k m)	≤ 0.12	≤ 0.08	----	----	----
Fibre cutoff wavelength λ_c		nm	≥ 1180 , ≤ 1330	≥ 1180 , ≤ 1330	----	----	----
Cable sutoff wavelength λ_{cc}		nm	≤ 1260	≤ 1260	----	----	----
MFD	1310nm	um	9.2+/-0.4	9.2+/-0.4	----	----	----
	1550nm	um	10.4+/-0.8	10.4+/-0.8	----	----	----
Numerical Aperture(NA)			----	----	0.200+/ -0.015	0.275+/-0. 015	0.200+/-0 .015
Step(mean of bidirectional measurement)		dB	≤ 0.05	≤ 0.05	≤ 0.10	≤ 0.10	≤ 0.10
Irregularities over fiber length and point		dB	≤ 0.05	≤ 0.05	≤ 0.10	≤ 0.10	≤ 0.10
Dicontinuity							
Difference backscatter coefficient		dB/km	≤ 0.05	≤ 0.03	≤ 0.08	≤ 0.10	≤ 0.08
Attenuation uniformity		dB/km	≤ 0.01	≤ 0.01			
Core dimater		um			50+/-1.0	62.5+/-2.5	50+/-1.0
Cladding diameter		um	125.0+/-0.1	125.0+/- 0.1	125.0+/- 0.1	125.0+/- 0.1	125.0+/-0.1
Cladding non-circularity		%	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0
Coating diameter		um	242+/-7	242+/-7	242+/-7	242+/-7	242+/-7
Coating/chaffinch concentrically error		um	≤ 12.0	≤ 12.0	≤ 12.0	≤ 12.0	≤ 12.0
Coating non circularity		%	≤ 6.0	≤ 6.0	≤ 6.0	≤ 6.0	≤ 6.0
Core/cladding conentricity error		um	≤ 0.6	≤ 0.6	≤ 1.5	≤ 1.5	≤ 1.5
Curl(radius)		um	≤ 4	≤ 4	----	----	----

Order Information

Description	Part Number
CABLEXA FIBER CABLE 8FO MM OM2 50/125	GYXTW 8FO OM2