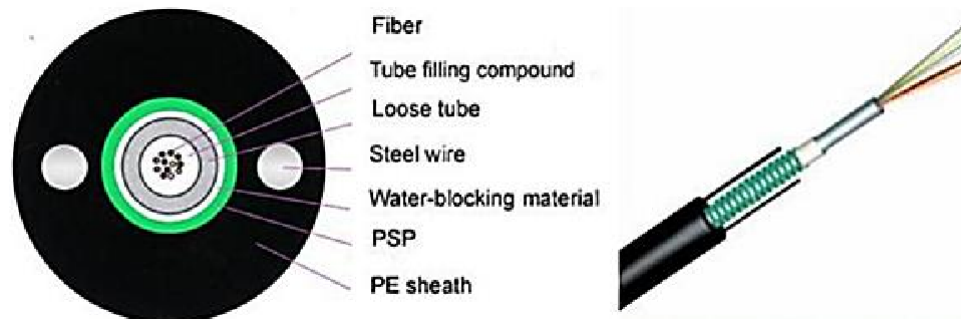


Armored Optical Fiber Cable[GYXTW]

1. Cable Construction:

1.1 Cross Sectional Diagram Product Photo:



1.2. Structure Specification:

ITEMS		DESCRIPTION
Fiber Count		2-12F
Loose Tube	OD (mm)	2.2±0.1
	Material:	PBT
Water Block Material		Water blocking Compound
Armored		Corrugation Steel tape
Strength Number (steel)		0.7mm*2
Sheath	Thickness:	Non. 1.7mm
	Material:	PE
OD of Cable (mm)		7.0
Net Weight (Kg/Km)		54

1. Fiber Identification:

NO.	1	2	3	4	5	6	7	8	9	10	11	12
Fiber Color	Blue	orange	Green	brown	slate	natural	Red	Black	yellow	violet	pink	Aqua

2. Optical Fiber:

2.1 Single Mode Fiber:

ITEMS	UNITS	SPECIFICATION	
Fiber type		G652D	G657A
Attenuation	dB/km	1310nm ≤ 0.36	
		1550nm ≤ 0.22	
Chromatic Dispersion	ps/nm.km	1310nm ≤ 3.5	
		1550nm ≤ 18	
		1625nm ≤ 22	
Zero Dispersion Slope	ps/nm ² .km	≤ 0.092	
Zero Dispersion Wavelength	nm	1300 ~ 1324	



Cut-off Wavelength (cc)	nm	≤ 1260	
Attenuation vs. Bending (60mm x100turns)	dB	(30mm radius, 100ring) ≤ 0.1 @ 1625nm	(10mm radius, 1ring)≤ 1.5 @ 1625nm
Mode Field Diameter	m	9.2 0.4 at 1310nm	9.2 0.4 at 1310nm
Core-Clad Concentricity	m	≤ 0.5	≤ 0.5
Cladding Diameter	m	125±1	125±1
Cladding Non-circularity	%	≤ 0.8	≤ 0.8
Coating Diameter	m	245±5	245±5
Proof Test	Gpa	≥ 0.69	≥ 0.69

1.2 Multi Mode Fiber:

ITEMS		UNITS	SPECIFICATION			
			62.5/125	50/125	OM3-150 OM3-300 OM4-550	
Fiber Core Diameter		μm	62.5±2.5	50.0±2.5	50.0±2.5	
Fiber Core Non-circularity		%	≤6.0	≤6.0	≤6.0	
Cladding Diameter		μm	125.0±1.0	125.0±1.0	125.0±1.0	
Cladding Non-circularity		%	≤2.0	≤2.0	≤2.0	
Coating Diameter		μm	245±10	245±10	245±10	
Coat-Clad Concentricity		μm	≤12.0	≤12.0	≤12.0	
Coating Non-circularity		%	≤8.0	≤8.0	≤8.0	
Core-Clad Concentricity		μm	≤1.5	≤1.5	≤1.5	
Attenuation	850nm	dB/km	3.0	3.0	3.0	
	1300nm	dB/km	1.5	1.5	1.5	
OFL	850nm	MHz · KM	≥160	≥200	≥700	≥1500 ≥3500
	1300nm	MHz · KM	≥300	≥400	≥500	≥500 ≥500
The biggest theory numerical aperture		/	0.275±0.015	0.200±0.015	0.200±0.015	

2. Mechanical and Environmental Performance of the Cable:

NO.	ITEMS	TEST METHOD	ACCEPTANCE CRITERIA
1	Tensile Loading Test	#Test method:IEC 60794-1-E1 - Long-tensile load : 300N - Short-tensile load : 600N - Cable length : ≥50m	- Attenuation increment@1550nm:≤0.1dB - No jacket cracking and fiber breakage
2	Crush Resistance Test	#Test method:IEC 60794-1-E3 - Long load : 300 N/100mm - Short load : 1000 N/100mm - Load time : 1 minutes	- Attenuation increment@1550nm:≤0.1dB - No jacket cracking and fiber breakage
3	Impact Resistance Test	#Test method:IEC 60794-1-E4 - Impact height : 1 m - Impact weigh: 450 g - Impact point: ≥5 - Impact frequency: ≥3/point	- Attenuation increment@1550nm:≤0.1dB - No jacket cracking and fiber breakage
4	Repeated Bending	#Test method:IEC 60794-1-E6 - Mandrel diameter : 20D (D = cable diameter) - Subject weight : 15kg - Bending frequency : 30 times	- Attenuation increment@1550nm:≤0.1dB - No jacket cracking and fiber breakage



		- Bending speed : 2s/time	
5	Torsion Test	#Test method:IEC 60794-1-E7 - Length : 1m	- Attenuation increment@1550nm:≤0.1dB

Part Number:

1. Single Mode Fiber:

Items Name	Part Number
4 Core Armored Cable	4F-GYXTW-SM-AT
6 Core Armored Cable	6F-GYXTW-SM-AT
12 Core Armored Cable	12F-GYXTW-SM-AT

2. Multi Mode Fiber:

Items Name	Part Number
4 core MM (50/125um) Inddor/Outdoor Armored cable	4F-GYXTW-MM-AT
6 core MM (50/125um) Inddor/Outdoor Armored cable	6F-GYXTW-MM-AT
12 core MM (50/125um) Inddor/Outdoor Armored cable	12F-GYXTW-MM-AT

