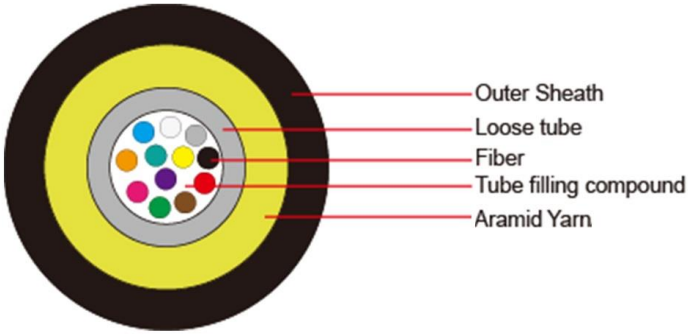
FIBRA ÓPTICA GYFXTY-06A1B-1.8KN

CABLE DE FIBRA ÓPTICA MULTIMODO 6 HILOS OM1 EXTERIOR E INTERIOR DIELÉCTRICA LSZH 1.8KN

1. Cable Structure



CABLE STRUCTURE AND PARAMETERS:

Physical Parameters	Cable Model	GYFXTY-06A1B-1.8KN
	Fiber Count	6
	Fiber Type	MM OM1 62.5/125μm
	Cable Outer Diameter(O.D.)	7.0mm
	Cable Weight	57KG/KM
	Outer Sheath Thickness	1.4mm
	Operating temperature range	-40℃ to +60℃
	Storage / Transport temperature range	-50℃ to +70℃
	Installation temperature range	-30℃ to +50℃
Mechanical Parameters	Tensile Strength Long Term	1000N
	Tensile Strength Short Term	1800N
	Crush Resistance	1500N/100mm
	Bending Radius(Short Term)	10×O.D.
	Bending Radius(Long Term)	20×O.D.

Notes:

1. The nominal sheath thickness may vary by ±0.2mm.

2. The nominal outer diameter and weight may vary by ±0.2mm.

2. Color Code of Optical Fiber

Color Code of Fiber (Comply with IEC-793-2 and TIA/EIA-598-A Standard)

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

Note) Color code may be changed upon customer's request.

3. Fiber Specifications

Fiber Type		G.652D	G.657A	OM1	OM2	OM3-150	OM3-300	OM4
		9/125μm	9/125μm	62.5/125μm	50/125μm	50/125μm	50/125μm	50/125μm
Attenuation (dB/km)	850nm	/	/	3.00	3.00	3.00	3.00	3.00
	1300nm	/	/	1.00	1.00	1.00	1.00	1.00
	1310nm	0.36	0.36	/	/	/	/	/
	1550nm	0.22	0.22	/	/	/	/	/
OFL Bandwidth (MHZ·KM)	850nm	/	/	≥200	≥500	≥700	≥1000	≥3500
	1300nm	/	/	≥500	≥500	≥500	≥500	≥500
Effective Modal Bandwidth (MHZ·KM)	850nm	/	/	/	/	≥950	≥2000	≥4700
Application Support Distance on (m)	Gigabit Ethernet LX 1300nm	/	/	550	550	550	550	550
	Gigabit Ethernet SX 850nm	/	/	275	550	750	800	880
	10 Gigabit Ethernet SX 850nm	/	/	33	82	150	300	550
	40G/100G Ethernet SX 850nm	/	/	/	/	/	100	150
Min. Bending Radius (mm)		30	10	30	30	30	30	30

4 Mechanical and Environmental Performance Test

Item	Test Method	Test Condition	Acceptance Criteria
Tensile strength	IEC 794-1-E1	-Tensile load:1800N - Length under tension: at least 50m - Duration of tension: 30 min	Note 1), 2)
Crush	IEC 794-1-E3	-Load: 1500N/100mm -Duration of load: 5 min	Note 1), 2)
Impact	IEC 794-1-E4	-10N x 1m x 10 different points -Impact Diameter: 25.0 mm	Note 1), 2)
Repeated bending	IEC 794-1-E6	- Length under test: 1m - R = 20 × cable outer diameter - Load: 25kg - Number of cycles: 20	Note 1)
Torsion	IEC 794-1-E7	- Test length: 2m - Applied load: 50kg - Twist angle: ±180 degrees - Twist cycles: 10	Note 1), 2)
Temperature cycling	IEC 794-1-F1	- Sample length: at least 1,000m - Temperature change: +20℃→-30℃→+70℃→+20℃ - Duration time: 12 hrs each step	Note 3)
Water penetration	IEC 794-1-F5	- Length under test: 3m - Water height: 1m - Duration time: 24 hrs	No water leak

Note 1) Maximum average increase in attenuation shall not be greater than the noise level of 0.1dB

Note 2) No mechanical damage

Note 3) Attenuation variation shall not be greater than 0.1 dB/km each procedure and after test.

5. Reference

IEC 60793-2-10 Characteristics of a single-mode optical fibre

IEC 60794-1 Optical fibre cables-part 1-1: Generic specification-General

IEC 60794-2 Optical fibre cables-part 1-2: Generic specification-Basic optical cable test procedure

IEC 60794-3 Optical fibre cables-part 3:Sectional specification- Outdoor cables

IEC 60794-4-20 Aerial optical cables along electrical power lines- Family specification for ADSS(All Dielectirc Self Supported) optical cables

ANSI/TIA/EIA-568-B.3 OPTICAL FIBER STANDARDS Optical Fiber Cabling Components

ANSI/TIA-568-C.3 “Optical Fiber Cabling Components”

ANSI/TIA/EIA/606A Administration Standard for Telecommunications Infrastructure

ANSI/TIA/EIA-598-A Fibre Optic Cable Standard Colour Guide