



Colour Arrangement of Fibers in Loose Tube:

Fiber Number	1	2	3	4	5	6	7	8	9	10	11	12
Colour	Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Pink	Aqua

Standards:

GYXTS optical cable complies with YD / T769-2010 standard

Optical Characteristics:

		G.652	G.655	50/125 μ m	62.5/125 μ m
Attenuation(+20°C)	@850nm			≤ 3.0 dB/km	≤ 3.3 dB/km
	@1300nm			≤ 1.0 dB/km	≤ 1.0 dB/km
	@1310nm	≤ 0.36 dB/km	≤ 0.36 dB/km		
	@1550nm	≤ 0.22 dB/km	≤ 0.23 dB/km		
Bandwidth(Class A)	@850nm			≥ 500 MHz.km	≥ 200 MHz.km
	@1300nm			≥ 1000 MHz.km	≥ 600 MHz.km
Numerical Aperture				0.200 ± 0.015 NA	0.275 ± 0.015 NA
Cable Cut-off Wavelength λ_{CCA}		≤ 1260 nm	≤ 1450 nm		

Description:

GYXTS cable structure is to insert 250 μ m fiber into a loose casing made of high modulus material, which is filled with waterproof compounds. A layer of double-sided coated plastic steel belt (PSP) is used to longitudinal wrap the loose casing. The water resistance material is added between the steel belt and the loose casing to ensure the compact and longitudinal water resistance of the cable. Two parallel steel wires are placed on both sides and then extruded into polyethylene sheath to form a line.

Characteristics:

- It has good mechanical properties and temperature characteristics.
- Loose casing material itself has good water resistance and high strength.
- The tube is filled with special ointment to protect the fiber
- Good pressure resistance.
- Duplex coated plastic strip (PSP) to improve the cable side pressure resistance.
- The two parallel wires ensure the tensile strength of the cable.
- PE sheath has good anti - ultraviolet radiation performance.
- Small diameter, light weight, easy to lay.

Fiber Parameters:

No.	Items		Unit G.652D	Specification
1	Mode Field Diameter	1310nm	μm	9.2±0.4
		1550nm	μm	10.4±0.5
2	Cladding Diameter		μm	124.8±0.7
3	Cladding Non-Circularity		%	≤0.7
4	Core-Cladding Concentricity Error		μm	≤0.5
5	Coating Diameter		μm	245±5
6	Coating Non-Circularity		%	≤6.0
7	Cladding-Coating Concentricity Error		μm	≤12.0
8	Cable Cutoff Wavelength		nm	$\lambda_{cc} \leq 1260$
9	Attenuation(max.)	1310nm	dB/km	≤0.4
		1550nm	dB/km	≤0.3

Cable Parameters:

Items		Specifications
Fiber Count		2~24
Colored Coating Fiber	Dimension	250±15μm
	Color	Blue、Orange、Green、Brown、Gray、White Red、Black、Yellow、Purple、Pink、Aqua
Loose Tube	Dimension	1.8mm±0.05mm
	Material	PBT
	Color	Blue、Orange、Green、Brown、Gray、White Red、Black、Yellow、Purple、Pink、Aqua
Strength Member	Diameter	/
	Material	STEEL WIRE
Outer Jacket	Dimension	6.5mm±0.3mm~8.0mm±0.3mm
	Material	PE
	Color	Black

Mechanical and Environmental Characteristics:

Items	Unit	Specifications
Tension (Long Term)	N	600
Tension (Short Term)	N	1500
Crush (Long Term)	N/10cm	300
Crush (Short Term)	N/10cm	1000
Min. Bend Radius (Dynamic)	mm	20D
Min. Bend Radius (Static)	mm	10D
Installation Temperature	°C	-20~+60
Operating Temperature	°C	-40~+70
Storage Temperature	°C	-40~+70

Applicable environment:

Overhead, pipeline, agricultural, underground.

Bimel P/N	Explanation on labels
BC-FO-I-94-O	Fiber Optic Cable, Outdoor, 4 Core, OS2, 9/125µ Singlemode, Unitube, Shielded
BC-FO-I-98-O	Fiber Optic Cable, Outdoor, 8 Core, OS2, 9/125µ Singlemode, Unitube, Shielded
BC-FO-I-912-O	Fiber Optic Cable, Outdoor, 12 Core, OS2, 9/125µ Singlemode, Unitube, Shielded
BC-FO-I-924-O	Fiber Optic Cable, Outdoor, 24 Core, OS2, 9/125µ Singlemode, Unitube, Shielded
BC-FO-I-54-O	Fiber Optic Cable, Outdoor, 4 Core, OM2, 50/125µ Multimode, Unitube, Shielded
BC-FO-I-58-O	Fiber Optic Cable, Outdoor, 8 Core, OM2, 50/125µ Multimode, Unitube, Shielded
BC-FO-I-512-O	Fiber Optic Cable, Outdoor, 12 Core, OM2, 50/125µ Multimode, Unitube, Shielded
BC-FO-I-524-O	Fiber Optic Cable, Outdoor, 24 Core, OM2, 50/125µ Multimode, Unitube, Shielded
BC-FO-I-54-O/3	Fiber Optic Cable, Outdoor, 4 Core, OM3, 50/125µ Multimode, Unitube, Shielded
BC-FO-I-58-O/3	Fiber Optic Cable, Outdoor, 8 Core, OM3, 50/125µ Multimode, Unitube, Shielded
BC-FO-I-512-O/3	Fiber Optic Cable, Outdoor, 12 Core, OM3, 50/125µ Multimode, Unitube, Shielded
BC-FO-I-524-O/3	Fiber Optic Cable, Outdoor, 24 Core, OM3, 50/125µ Multimode, Unitube, Shielded