

KCO Fiber optic products	KOCENT OPTEC LIMITED
DATASHEET	OUTDOOR FIBER OPTIC CABLE

Central Loose Outdoor Fiber Optic Cable

GYXTW



1. What is GYXTW cable?

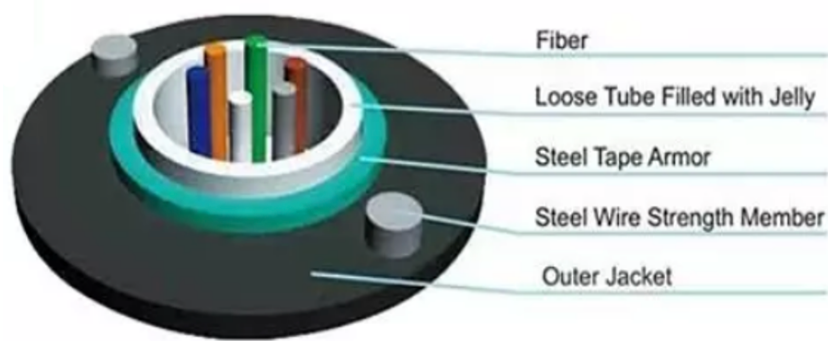
- GYXTW fiber optic cable, the fibers 250µm, are positioned in a loose tube made of a high modulus plastic.
- The tubes are filled with a water-resistant filling compound.
- The tube is wrapped with a layer of PSP longitudinally.
- Between the PSP to keep the cable compact and watertight.
- Two strength member steel wires are placed at the two sides of the steel tape.
- The cable is completed with a polyethylene (PE) sheath.
- The cable is available from 2fo to 12fo.
- The cable diameter can do 6.5mm, 7.0mm, 8.0mm, 8.3mm.
- Standard cable reel length: 2km/reel, 3km/reel.
- Pack by standard export wooden reel.

2. Characteristics:

- Steel-wire parallel member, filler protect tube fiber steel tape armored.
- Excellent mechanical and environmental performance.
- Compact structure, light weight can be installed conveniently and operated simply.

http://www.passivefiberoptic.com	info@kocentoptec.com
Address: 14F, Duocai B bd, Guanlan Hi-tech Park, Longhua, Shenzhen, Guangdong, China. Postal code: 518110	

3. Cable structure:



4. Applications:

- Adopted to Outdoor distribution.
- Suitable for aerial, pipeline laying method.
- Long distance and local area network communication.



Overhead



Pipeline

5. Cable Mechanical Characteristic:

Fiber number	Cable diameter	Weight
1~12	7.0mm+/-0.2mm	50kg/km
Temperature range	-40°C+70°C	
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	-40°C+70°C	
Installation temperature	-20°C+60°C	
Storage temperature	-40°C+70°C	

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6. Fiber characteristic:

Fiber style		Unit	SM G652D	SM G657A	MM 50/125	MM 62.5/125	MM OM3-300	MM OM4-550
Condition		nm	1310/1550	1310/625	850/1300	850/1300	850/1300	850/1300
Attenuation		dB/km	≤0.34/0.22	≤0.035/0.21	≤3.0/1.0	≤3.0/1.0	≤3.0/1.0	≤3.5/2.2
Dispersion	1550nm	Ps/(nm*km)	≤18	≤18	----	----	----	----
	1625nm	Ps/(nm*km)	≤22	≤22	----	----	----	----
Bandwidth	850nm	MHZ.KM	----		≥400	≥160		
	1300nm	MHZ.KM	----		≥800	≥500		
Zero dispersion wavelength		nm	≥1302 ≤1322	≥1302 ≤1322	----	----	≥ 1295, ≤1320	≥ 1295, ≤1340
Zero dispersion slope		nm	≤0.091	≤0.090	----	----	----	----
PMD Maximum Individual Fiber			≤0.2	≤0.2	----	----	≤0.11	
PMD Design Link Value		Ps(nm ² *km)	≤0.08	≤0.1	----	----	----	----
Fibre cutoff wavelength λ _c		nm	≥1180 ≤1330	≥1180 ≤1330	----	----	----	----
Cable cutoff wavelength λ _{cc}		nm	≤1260	≤1260	----	----	----	----
MFD	1310nm	um	9.2±0.4	9.0±0.4	----	----	----	----
	1550nm	um	10.4±0.8	10.1±0.5	----	----	----	----
Numerical Aperture (NA)			----	----	0.200± 0.015	0.275± 0.015	0.200± 0.015	0.200± 0.015
Step (mean of bidirectional measurement)		dB	≤0.05	≤0.05	≤0.10	≤0.10	≤0.10	≤0.10
Irregularities over fiber length and point		dB	≤0.05	≤0.05	≤0.10	≤0.10	≤0.10	≤0.10
Difference backscatter coefficient		dB/km	≤0.03	≤0.03	≤0.08	≤0.10	≤0.08	≤0.08
Attenuation uniformity		dB/km	≤0.01	≤0.01				
Core diameter		um	9	9	50±1.0	62.5±2.5	50±1.0	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	125.0±0.1
Cladding non-circularity		%	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0
Coating diameter		um	242±7	242±7	242±7	242±7	242±7	242±7
Coating/chaffinch concentricity error		um	≤12.0	≤12.0	≤12.0	≤12.0	≤12.0	≤12.0
Coating non circularity		%	≤6.0	≤6.0	≤6.0	≤6.0	≤6.0	≤6.0
Core/cladding concentricity error		um	≤0.6	≤0.6	≤1.5	≤1.5	≤1.5	≤1.5
Curl(radius)		um	≤4	≤4	----	----	----	----

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7. Fiber color:

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

Color												
No. of fiber	1	2	3	4	5	6	7	8	9	10	11	12

8. Packing:



9. Shipping:

