

DATACOMM Outdoor Cable

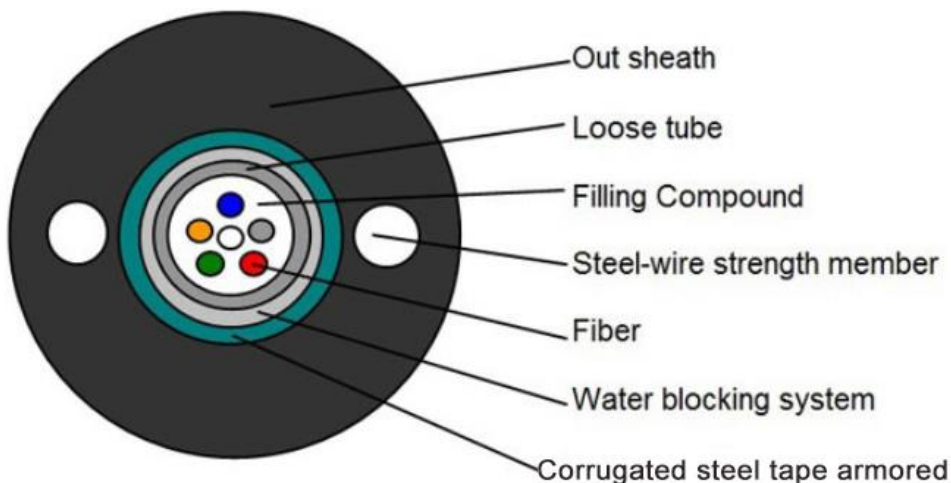
GYXTW 50/125 OM3



1. What is GYXTW cable?

- 1.1. GYXTW 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 and the loose tube water-blocking material is applied to keep the cable compact and watertight. Two parallel steel wires are placed at the two sides of the steel tape. The cable is completed with a polyethylene (PE) sheath.
- 1.2. The OM3 fiber cable has been developed according to the newest 10Gbit standards and allows the data transmission over a distance up to max 300 m at 850 nm. Due to its excellent optical characteristics, other than the conventional 600/1200 nm fibers, the OM3 fiber optic cable is applicable for backbone connections based on a cost-efficient multi-mode technology up to 10Gbit. OM3 fiber patch cables are also available for short distance high data rates fiber optic communications.

2. Construction:



3. 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.

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	8.0mm+/-0.3mm	70kg/km
	7.0mm+/-0.1mm	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	

6. Fiber characteristic:

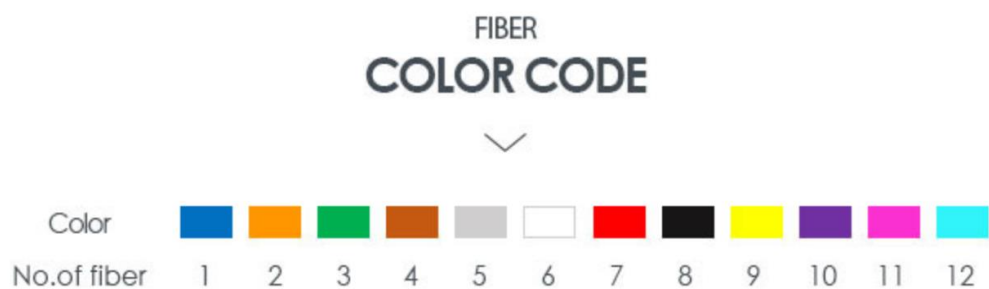
Fiber style		Unit	MM OM3-300
condition		nm	850/1300
attenuation		dB/km	≤3.0/1.0

Dispersion	1550nm	Ps/(nm*km)	Dispersion
	1625nm	Ps/(nm*km)	
Bandwidth	850nm	MHZ.KM	Bandwidth
	1300nm	MHZ.KM	
Zero dispersion wavelength		nm	≥ 1295, ≤1320
Zero dispersion slope		nm	----
PMD Maximum Individual Fiber			≤0.11
PMD Design Link Value		Ps(nm2*km)	----
Fibre cutoff wavelength λc		nm	----

Cable cutoff wavelength λ_{cc}		nm	----
MFD	1310nm	um	----
	1550nm	um	----
Numerical Aperture(NA)			0.200+/-0.015
Step(mean of bidirectional measurement)		dB	≤ 0.10
Irregularities over fiber length and point		dB	≤ 0.10

7. Fiber color:

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



8. Packing:

