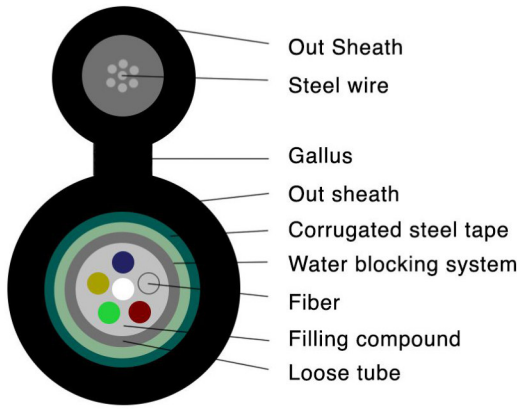
GYXTC8S





1. Product description

The structure of the figure 8 cable is place the 250μm optical fibers into a loose. tube made of high modulus material . The tubes are filled with a waterproof compound. The loose tube cable core is longitudiently wrapped with a PSP, and the phosphating strand is integrated into a figure-8 polyethylene sheath.

Item	Index
Fiber Type	G.652D Singlemode
Mode field diameter@1310nm	9.2±0.4μm
Cladding diameter	125.0±1.0μm
Module field concentricity error	≤0.5μm
Cladding non-circularity	1.0%
Cut-off wavelength	λcc(Test on 20m optical cable +2m fiber) ≤1260 nm

2. Structure chart

Fiber count	1-12F	
SM Fiber	Fiber type	G652D
	MFD	8.6~9.8μm
	Cladding diameter	124.8±0.7μm
Loose tube	Material	PBT
Water blocking system	Material	Water blocking tape/ Aramid yarn
Armored	Material	Corrugated steel tape
Mental strength member	Material	Galvanized strand steel wire
Outsheath	Material	HDPE
	Diameter	6.5mm (±0.3) - 10.5mm (±0.2)

3. Product performance

3.1. Optical performance parameter

Attenuation coefficient 1310nm 1550nm	≤0.36 dB/km ≤0.22 dB/km
Dispersion coefficient	1288-1339nm ≤3.5ps/nm.km 1271-1360nm ≤5.3ps/nm.km 1550nm ≤18ps/nm.km 1625nm ≤22ps/nm.km
Zero dispersion wavelength	1300nm-1324nm
Zero dispersion point slope	≤0.092ps/nm2.km
PMDQ	PMDQ*≤0.2ps/km1/2
Coating layer outer diameter	245±10μm
Screen tension	100kpsi (0.7Gpa)

3.2. Optical performance parameter

Fiber	4 core	6 core	8 core	12 core
Structure	GYXTC8S	GYXTC8S	GYXTC8S	GYXTC8S
Dimensions of wire strand	0.4*7-ϕ1mm Galvanized wire	0.4*7-ϕ1mm Galvanized wire	0.4*7-ϕ1mm Galvanized wire	0.4*7-ϕ1mm Galvanized wire
Loose tube size (mm)	2.0±0.1	2.0±0.1	2.0±0.1	2.0±0.1
Outer sheath material	HDPE	HDPE	HDPE	HDPE
Thickness of outer sheath (mm)	1.5mm±0.1	1.5mm±0.1	1.5mm±0.1	1.5mm±0.1
Steel strand outside diameter	3mm±0.1	3mm±0.1	3mm±0.1	3mm±0.1
Cable outside diameter (mm)	6.5mm±0.1	6.5mm±0.1	6.5mm±0.1	6.5mm±0.1

3.3. Mechanical property

Fiber type	Fibers	Diameter mm ±0.2	Weight Kg/Drum ±10%
GYXTC8S	4	6.5mm*10.8mm	135
GYXTC8S	6	6.5mm*10.8mm	135
GYXTC8S	8	6.5mm*10.8mm	135
GYXTC8S	12	6.5mm*10.8mm	135

Steel strand	Diameter of	Tensile	Crush	bending radius
	Connection mm height x width	Strength Long-term/ Short-term N	Resistance Long-term/ Short-term N/100m	Static/dynamic mm
0.4*7mm	2.0x2.0	1000/3000	200/800	15D/30D
0.4*7mm	2.0x2.0	1000/3000	200/800	15D/30D
0.4*7mm	2.0x2.0	1000/3000	200/800	15D/30D

03.04 Temperatur range

Working tempertur	-5 ~+50
Storing/transport temperatur	-50 ~+70
Installation temperatur	-30 ~+70

Package

Packing material : Wooden Drum.
Packing length : 2KM/Drum or customization.

