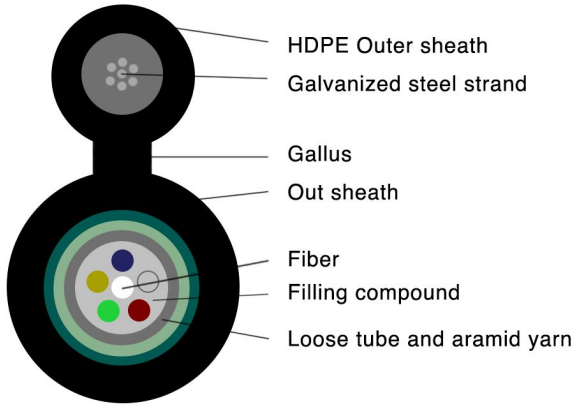
GYXTC8Y





1. Product description

The structure of the figure 8 cable is place the 250μm optical fibers into a loose tube made of a 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 HDPE sheath.

Item	Index
Fiber Type	G.652D Or G657A 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 ≤1260 nm
Attenuation coefficient 1310nm	1550nm

Structure chart

3.1. Optical performance parameter

	≤0.36 dB/km ≤0.22 dB/km
Dispersion conefficient	1288-1339nm≤3.5ps/nm.km 1270-1360nm≤5.3ps/nm.km 1550nm≤18ps/nm.km 1625nm≤22ps/nm.km
Zero dispersion wavelength	1300nm- 1324nm
Zero dispersion point slope	≤0.09ps/nm2.km
PMDQ	PMDQ*≤0.2ps/km1/2
Coating layer outer diameter	245±10μm

GYXTC8Y

3.2. Structure parameter

Fiber	4 core	6 core	8 core	12 core
Structure	GYXTC8Y	GYXTC8Y	GYXTC8Y	GYXTC8Y
Dimensions of wire strand	0.4*7-ϕ1mm	0.4*7-ϕ1mm	0.4*7-ϕ1mm	0.4*7-ϕ1mm
Loose tube color	White	White	White	White
Loose tube size (mm)	2.0±0.1mm	2.0±0.1mm	2.0±0.1mm	2.0±0.1mm
Outer sheath material	HDPE	HDPE	HDPE	HDPE
Steel strand outside diameter	1.0mm±0.2	1.0mm±0.2	1.0mm±0.2	1.0mm±0.2
Thickness outer sheath (mm)	3mm±0.2	3mm±0.2	3mm±0.2	3mm±0.2
Cable outside diameter (mm)	4.0mm±0.2	4.0mm±0.2	4.0mm±0.2	4.0mm±0.2

3.3. Mechanical property

Fiber type	Fibers	Diameter mm ±0.2	Weight Kg/2km ±10%
GYXTC8Y	4	4.0mm*7.0mm	65
GYXTC8Y	6	4.0mm*7.0mm	65
GYXTC8Y	8	4.0mm*7.0mm	65
GYXTC8Y	12	4.0mm*7.0mm	65

Temperatur Range

Steel strand	Diameter of connection mm height x width	Tensile Strength long term/ short term	Crush Resistance long term/ short term N/100m
0.33*7ϕ 1.0mm	2.0x2.0	1000/3000	200/800
0.33*7ϕ 1.0mm	2.0x2.0	1000/3000	200/800
0.33*7ϕ 1.0mm	2.0x2.0	1000/3000	200/800

Working temperatur	-40°C~+60°C
Storage/transport temperatur	-50°C~+70°C
Installation temperatur	-20°C~+60°C

Packages :

Packing material : Wooden drum.
Packing length : 2KM/DRUM or customization

