

GYFY

All-Dielectric Optical Fiber Cable GFRP CSM Stranded Loose Tube Duct Installation



1. Loose Tube: thermoplastic material, containing opticalfibres and water blocking yarm.
2. Central Strength Mlember: glass fibre reinforced plasticrod (GFRP) coated with PE when needed.
3. Filler Elements: thermoplastic rods.
4. Longitudinal Water Blocking Material: Water blocking tape.
5. Ripcord
6. Outer Sheath: black polyethylene

Features and Applications:

Lighting resistance.

Gel-free and Non-metallic structure.

Duct installation and aerial installation.

Optical Characteristics:

		G.652.D	G.655	50/125um	62.5/125um
Attenuation	@850nm	-	-	≤3.0 dB/km	≤3.0 dB/km
	@1300nm	-	-	≤1.0 dB/km	≤1.0 dB/km
	@1310nm	≤0.36 dB/km	≤0.40 dB/km	-	-
	@1550nm	≤0.22 dB/km	≤0.23 dB/km	-	-
Bandwidth	@850nm	-	-	≥500 MHz · km	≥200 MHz · km
	@1300nm	-	-	≥1000 MHz · km	≥600 MHz · km
Polarization mode dispersion	Individual fibre	≤0.20 ps/√km	≤0.20 ps/√km	-	-
	Design link value (M=20,Q=0.01%)	≤0.10 ps/√km	≤0.10 ps/√km	-	-

Technical Data:

Item	Contents	Value					
	Fiber Count	24	48	72	96	144	288
Loose Tube	No. of tubes*fibres per tube	2x12	4x12	6x12	8x12	12x12	24x12
	Outer diameter (mm)	2.4					
Central strength member	Material	GFPR					
	Diameter (mm)	2.25	2.25	2.6	2.6	3.5	3.5
	PE coated diameter (mm)	-	-	-	4.2	7.2	4.8
Outer Sheath	Thickness (mm)	Nominal:1.8					
Cable diameter(mm)Approx.		11.0	11.0	11.6	13.0	16.0	18.5
Cable weight(kg/km)Approx.		100	100	105	120	180	225
Operating temperature range(℃)		-40~+70					
Tensile Strength Short/ Long Term(N)		2700/900					
Crush resistance short/long term (N/100mm)		1000/300					

The colour arrangement of fibre and tube is specified in the colour identification table.

Other structure and fibre count are also available according to customer requirements.