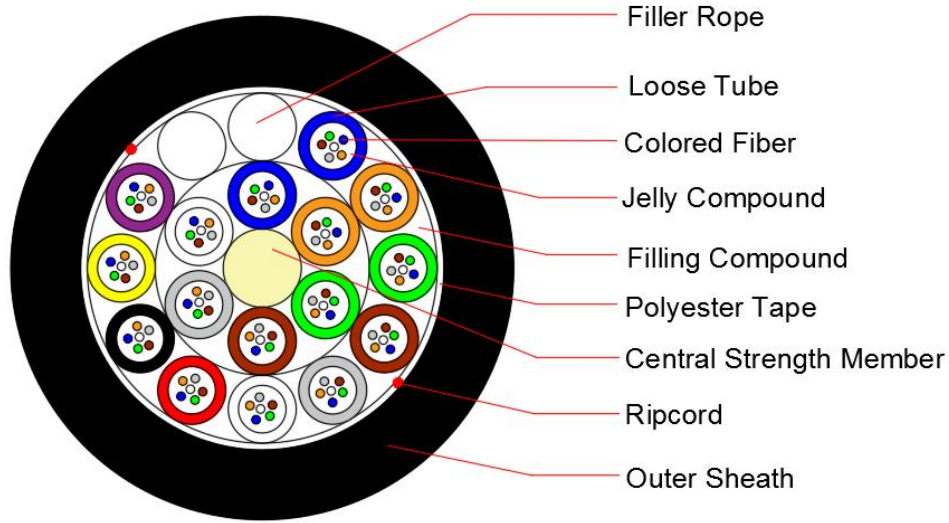


Duct Installation Fiber Optical Cable G.652D MDPE (GYFTY)



Technical data

No. of cable		6	12	48	96	144
Fiber Model		G.652D				
Design(Strength Member +Tube & Filler)		1+5	1+5	1+8	1+6+12	1+12
Central Strength Member	Material	FRP				
	Diameter (± 0.05) mm	2.3	2.3	3.0	2.3	3.0
Additional Sheath	Material	MDPE				
	Size (± 0.1) mm	—	—	—	—	6.0
Loose Tube	Material	PBT				
	Diameter (± 0.06) mm	2.5	2.5	1.8	2.0	2.0
	Thickness (± 0.03) mm	0.35	0.35	0.3	0.32	0.32
	The Max .Core NO./Tube	6	6	6	6	12
Filler Rope	Material	LDPE				
	Color	White				
	Diameter (± 0.06) mm	2.3	2.3	-	2.0	-
	NO.	4	3	-	2	-
Water Blocking Layer (Material)		Filling compound				
Wrap Tape (Material)		Polyester tape				
Ripcord (Material)		Nylon				
Outer Sheath	Material	HDPE				
	Thickness (± 0.1) mm	2.0				
Cable Diameter (± 0.2) mm		11.8	11.8	11.1	14.8	14.5
Cable Weight (± 5.0) kg/km		105	105	95	170	160
Attenuation	1310nm	≤ 0.35 dB/ km				
	1550nm	≤ 0.21 dB/ km				
Allowable Tensile	Short Term	1500N				

Strength	Long Term	600N
Allowable Crush Resistance	Short Term	1000 (N/100mm)
	Long Term	300 (N/100mm)
Min. bending radius	Without Tension	10.0×Cable-φ
	Under Maximum Tension	20.0×Cable-φ
Temperature range (°C)	Installation	-20~+60
	Transport & Storage	-40~+70
	Operation	-40~+70

Fiber & Loose Tube Color

No.	1	2	3	4	5	6
Color	Blue	Orange	Green	Brown	Gray	White
No.	7	8	9	10	11	12
Color	Red	Black	Yellow	Violet	Pink	Aqua

The properties of single mode optical fiber (ITU-T Rec. G.652.D)

Item	Specification
Fiber type	Single mode
Fiber material	Doped silica
Attenuation coefficient	
@ 1310 nm	≤ 0.35 dB/km
@ 1550 nm	≤ 0.21 dB/km
Point discontinuity	≤ 0.05 dB
Cable cut-off wavelength	≤ 1260 nm
Zero-dispersion wavelength	1300 ~ 1324 nm
Zero-dispersion slope	≤ 0.092 ps/(nm ² .km)
PMD _Q (Quadrature average*)	≤ 0.2 ps/km ^{1/2}
Mode field diameter @ 1310 nm	9.2±0.4 μm
Core / Clad concentricity error	≤ 0.5 μm
Cladding diameter	125.0 ± 0.7 μm
Cladding non-circularity	≤ 1.0%
Primary coating diameter	245 ± 10 μm
Proof test level	100 kpsi (=0.69 Gpa), 1%
Temperature dependence 0oC~ +70oC @ 1310 & 1550nm	≤ 0.1 dB/km