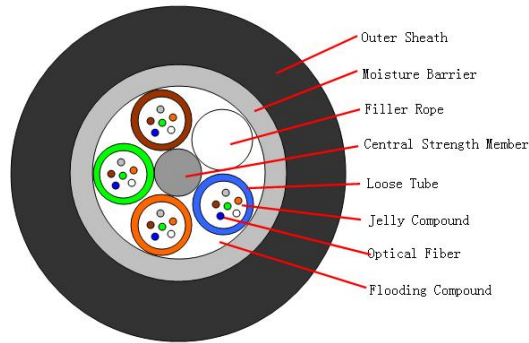




Underground Fiber Optic Cable GYTA SM G652D Stranded Loose Tube Cable Armoured 24 Cores PE Jacket

Cable Design



Technical data

No. of cable		2~30	32~60	62~72	74~96	144	216
Fiber Model		G.652D					
Design(StrengthMember+Tube&Filler)		1+5	1+5	1+6	1+8	1+12	1+6+12
Central Strength Member	Material	FRP					
	Diameter (± 0.05) mm	1.7	1.7	2.0	2.5/3.4	2.8/5.8	3.3/7.8
Loose Tube	Material	PBT					
	Diameter (± 0.06) mm	1.9	1.9	1.9	1.9	1.9	1.9
	Thickness (± 0.03) mm	0.32	0.35	0.35	0.35	0.35	0.35
	The Max.Core NO./Tube	6	12	12	12	12	12
Filler Rope	Material	LDPE					
	Colour	White					
	Diameter (± 0.06) mm	1.7	1.9	1.9	1.9	1.9	1.9
Water Blocking layer (Material)		Flooding Compound					
Armoring	Material	Aluminum Tape					
	Thickness (± 0.03) mm	0.22					
Outer Sheath	Material	HDPE with UVresistance					
	Thickness (± 0.2) mm	1.5					
Cable Diameter		8.9	8.9	9.2	10.6	13	14
Cable Weight		80	85	105	140	195	210
Min. bending radius	Without Tension	10.0 \times Cable- ϕ					
	Under Maximum Tension	20.0 \times Cable- ϕ					
Temperature range ($^{\circ}\text{C}$)	Installation	-20~+60					
	Transport&Storage	-40~+70					
	Operation	-40~+70					



Fibre&Loose Tube Colours

NO.	1	2	3	4	5	6
Colour	Blue	orange	green	brown	gray	white
						
	7	8	9	10	11	12
	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 @ 1383 nm @ 1550 nm @ 1625 nm	≤ 0.36 dB/km ≤ 0.32 dB/km ≤ 0.22 dB/km ≤ 0.30 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)
Chromatic dispersion @ 1288 ~ 1339 nm @ 1271 ~ 1360 nm @ 1550 nm @ 1625 nm	≤3.5 ps/(nm. km) ≤5.3 ps/(nm. km) ≤18 ps/(nm. km) ≤22 ps/(nm. km)
PMD _Q (Quadrature average*)	≤0.2 ps/km ^{1/2}
Mode field diameter @ 1310 nm	9.2±0.4 um
Core / Clad concentricity error	≤ 0.5 um
Cladding diameter	125.0 ± 0.7 um
Cladding non-circularity	≤1.0%
Primary coating diameter	245 ± 10 um
Proof test level	100 kpsi (=0.69 Gpa), 1%
Temperature dependence 0oC~ +70oC @ 1310 & 1550nm	≤ 0.1 dB/km

Application:



NO.	Item		Requirement
1	Allowable Tensile Strength	Short Term	1500 N
		Long Term	600 N
2	Allowable Crush Resistance	Short Term	1000 (N/100mm)
		Long Term	300 (N/100mm)

Sheath marking

The color of marking is white, but if the remarking is necessary, the **white color** marking shall be printed newly on a different position.

An occasional unclear of length marking is permitted if both of the neighboring markings are clear.

The both cable ends are sealed with heat shrinkable end caps to prevent water ingress.

