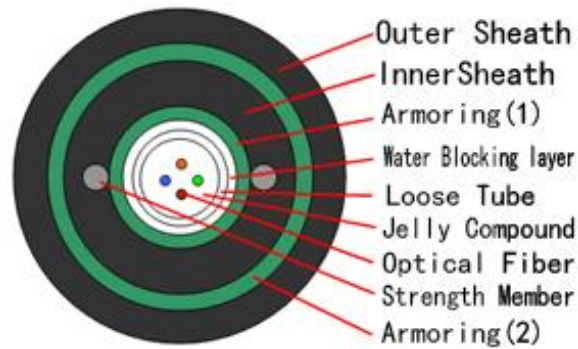


Outdoor Fiber Optical Cable|Direct Bury GYXTW53 Fiber Cable

Double Armored SM G652D 8 16 24 Core PE

Cable Design



Technical data

No. of cable		2	12
Fiber Model		G.652D	
Strength Member	Material	Steel Wire	
	Diameter (±0.05) mm	0.8	
	NO	2	
Loose Tube	Material	PBT	
	Diameter (±0.06) mm	1.8	2.0
	Thickness (±0.03) mm	0.28	0.3
Water Blocking layer (Material)		Water Blocking Tape	
Armoring(1)	Material	Steel Strip	
	Thickness (±0.05) mm	0.20	
Inner Sheath Diameter (±0.2) mm		7.7	7.9
Armoring(2)	Material	Steel Strip	
	Thickness (±0.05) mm	0.20	
Outer Sheath (Material)		MDPE	
Cable Diameter (±0.2) mm		11.9	12.1
Cable Weight (±10) kg/km		127	134
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	

### Fibre and Loose Tube Colours

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 @ 1383 nm @ 1550 nm @ 1625 nm	0.35 dB/km 0.30 dB/km 0.21 dB/km 0.24 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 <sup>2</sup> .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 <sub>Q</sub> (Quadrature average*)	≤0.2 ps/km <sup>1/2</sup>
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

### **Sheath marking**

The optical fiber drop cable shall have sequentially numbered length marking at intervals of approximately 1 meter. The starting number of ordering length for any coil shall begin with zero meter. The accuracy of the measurement of length marking shall be held within the limits of  $\pm 1\%$ .

- a) Manufacturer's name
- b) Type of wire
- c) Year and month of manufacture
- d) Length marking each meter along the wire

