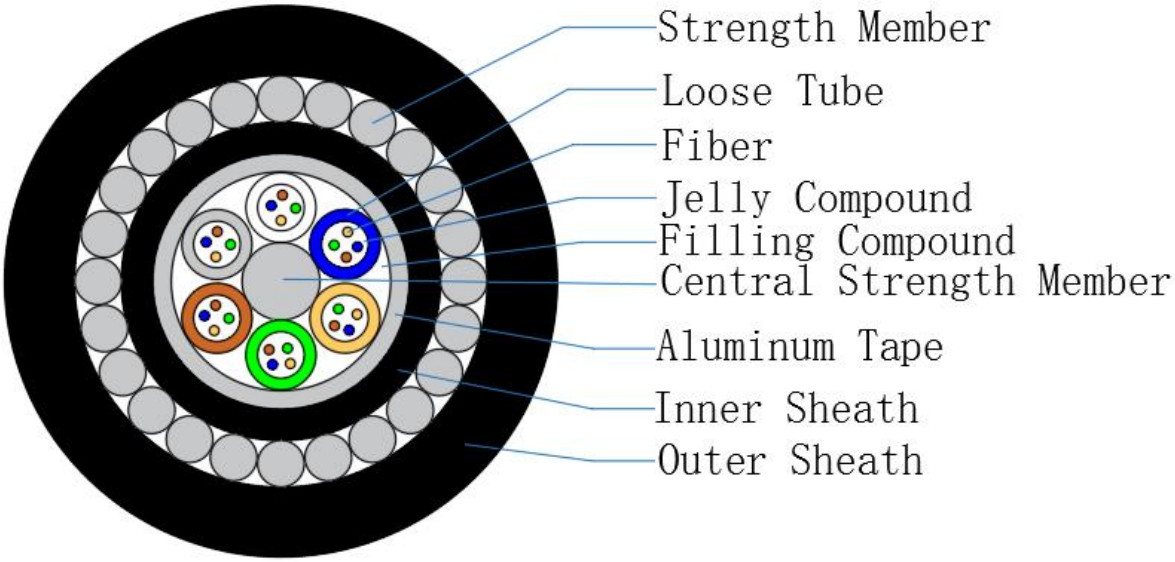
Single Steel Wire+ Steel tape Double Jacket Outdoor Fiber Optic Cable 24cores G652D PE(GYTA33)

Cable Design



Technical data

No. of cable		24
Fiber Model		G652D
Design(StrengthMember+Tube&Filler)		1+6
Central Strength Member	Material	Steel Wire
	Diameter（±0.05）mm	2.0
Additional Sheath	Material	MDPE
	Thickness（±0.05）mm	—
Loose Tube	Material	PBT
	Diameter（±0.06）mm	1.8
	Thickness（±0.03）mm	0.30
	The Max.Core NO./Tube	4
Water Blocking layer（Material）		Flooding Compound
Moisture Barrier	Material	Polymer Coated Aluminum Tape
	Thickness（±0.03）mm	0.20
Inner Sheath	Material	MDPE
	Thickness（±0.2）mm	0.8
Strength Member	Material	Galvanized steel wire
	Diameter（±0.05）mm	1.2
Outer Sheath	Material	MDPE
	Thickness（±0.2）mm	1.8

Cable Diameter（±0.2）mm		14.2
Cable Wetght（±20）kg/km		370
Min. bending radius	Without Tension	15×Cable-φ
	Under Maximum Tension	30×Cable-φ
Temperature range （℃）	Installation	-20~+60
	Transport&Storage	-40~+70
	Operation	-40~+70

Fibre Colours

No.	1	2	3	4
Color	Blue	Orange	Green	Brown

Loose Tube Colours

No.	1	2	3	4	5	6
Color	Blue	Orange	Green	Brown	Slate	White

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 ≤ 0.34dB/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^2.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	≤ 0.6um
Cladding diameter	125.0 ± 1 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

Main mechanical & environmental performance test

Item	Test Method	Acceptance Condition
Tensile Strength IEC 794-1-2-E1	- Load: Short term tension - Length of cable: about 50m	- Fiber strain ≤ 0.33% - Loss change ≤ 0.1 dB @1550 nm - No fiber break and no sheath damage.
Crush Test IEC 60794-1-2-E3	- Load: Short term crush - Load time: 1min	- Loss change ≤ 0.05dB@1550nm - No fiber break and no sheath damage.
Impact Test IEC 60794-1-2-E4	- Points of impact: 3 - Times of per point: 1 - Impact energy: 5J	- Loss change ≤ 0.1dB@1550nm - No fiber break and no sheath damage.
Temperature Cycling Test YD/T901-2001-4.4.4 .1	- Temperature step: +20°C→-40°C→+70°C →+20°C - Time per each step: 12 hrs - Number of cycle: 2	- Loss change ≤ 0.05 dB/km@1550 nm - No fiber break and no sheath damage.

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 whit zero meter. The accuracy of the measurement of length marking shall be held within the limits of ±1%.

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