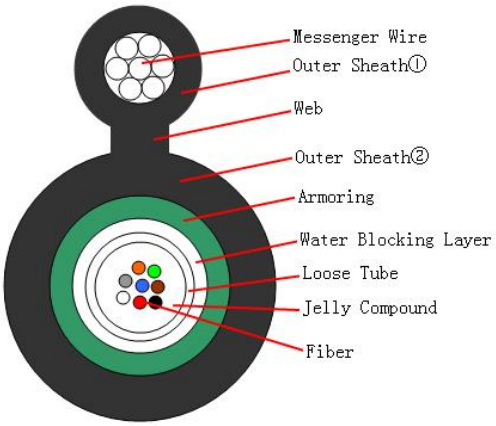
Outdoor Fiber Optic Cable Aerial Armored GYXTC8S Figure 8 Self-supporting 2-24 Cores SM G652D PE

Cable Design



Technical data

No. of cable		2-8	12	24
Fiber Model		G.652D		
Loose Tube	Material	PBT		
	Diameter（±0.1）mm	1.8	2.0	2.8
	Thickness（±0.05）mm	0.30		
Water Blocking layer（Material）		Water Blocking Tape		
Armoring	Material	Steel Tape		
	Thickness（±0.03）mm	0.2		
Messenger Wire	Material	Galvanized steel strand		
	Size（±0.05）mm	2.7mm		
Web	Material	MDPE		
	Size（±0.1）mm	2.0×3.0		
Outer Sheath①	Material	MDPE		
	Thickness（±0.1）mm	1.2		
Outer Sheath②	Material	MDPE		
	Thickness（±0.1）mm	1.5		
Cable Diameter（±0.5）mm		6.3*12.5	6.5*12.7	7.3*13.5
Cable Weight（±10）kg		95	96	104
Min. bending radius	Without Tension	10.0×Cable-φ		
	Under Maximum Tension	20.0×Cable-φ		
Temperature range（℃）	Installation	-20~+60		
	Transport&Storage	-40~+70		
	Operation	-40~+70		

Fibre 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
No.	13	14	15	16	17	18
Color	Blue+P	Orange+P	Green+P	Brown+P	Gray+P	White+P
No.	19	20	21	22	23	24
Color	Red+P	Black+P	Yellow+P	Violet+P	Pink+P	Aqua+P

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 ≤ 0.32 dB/km ≤ 0.22 dB/km ≤ 0.30dB/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 0℃~ +70℃ @ 1310 & 1550nm	≤ 0.1 dB/km

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.