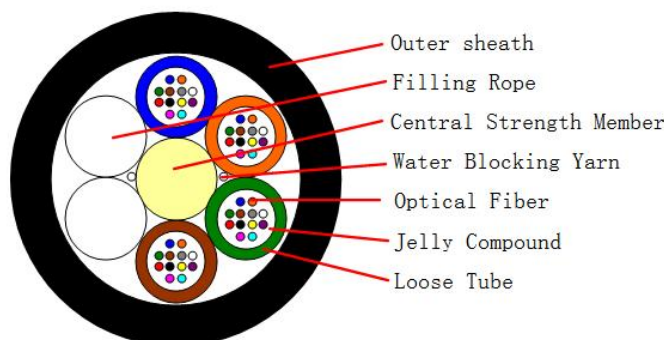




Stranded Air Blown Fiber Optic Cable GCYFTY G652D SM Loose Tube Micro Optical Cable Multi Cores HDPE

Cable Design



Technical data

No. of cable		24	48	72	96	144	288
Fiber Model		G652D					
Design(StrengthMember+Tube&Filler)		1+6			1+8	1+12	1+9+15
Central Strength Member	Material	FRP					
	Diameter (±0.05) mm	1.5			2.6	2.6	3.0
Additional Sheath	Material	MDPE					
	Size (±0.1) mm	—				4.5	—
Loose Tube	Material	PBT					
	Diameter (±0.1) mm	1.5					
	Thickness (±0.03) mm	0.20					
	The Max.Core NO./Tube	6	12				
Filler Rope	Material	LDPE					
	Colour	White					
	Diameter (±0.06) mm	1.5	1.5	—	—	—	—
	NO.	4	2	—	—	—	—
Additional Strength Member		Water Blocking Yarn					
Outer Sheath	Material	HDPE					
	Thickness (±0.1) mm	0.5					
Cable Diameter (±0.2) mm		5.5	5.5	5.5	6.6	8.5	10.2
Cable Wewght (±5.0) kg/km		24	24	24	42	60	80
Attenuation	1310nm	≤0.35dB/ km					
	1550nm	≤0.21dB/ km					
Allowable Tensile Strength	Short Term	400 N	400 N	400 N	500 N	500 N	750N
	Long Term	150 N	150 N	150 N	250 N	250 N	250N
Allowable Crush Resistance	Short Term	600 (N/100mm)					
	Long Term	200 (N/100mm)					
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

Loose Tube Color

No.	1	2	3	4	5	6
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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	≤ 0.36 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 μm



Core / Clad concentricity error	$\leq 0.5 \text{ }\mu\text{m}$
Cladding diameter	$125.0 \pm 0.7 \text{ }\mu\text{m}$
Cladding non-circularity	$\leq 1.0\%$
Primary coating diameter	$245 \pm 10 \text{ }\mu\text{m}$
Proof test level	100 kpsi (=0.69 Gpa), 1%
Temperature dependence 0oC~ +70oC @ 1310 & 1550nm	$\leq 0.1 \text{ dB/km}$

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 $\pm 1\%$.