

# Cable Specification

Optical cable type:GYTC8S

Cross section of cable:



Optical fiber type and properties:

Item	Unit	Specification	
		G. 652D	
Mode field diameter	1310nm	$\mu\text{m}$	$9.2 \pm 0.4$
	1550nm	$\mu\text{m}$	$10.4 \pm 0.8$
Cladding diameter	$\mu\text{m}$	$125.0 \pm 1$	
Cladding non-circularity	%	$\leq 1.0$	
Core/cladding concentricity error	$\mu\text{m}$	$\leq 0.5$	
Coating diameter	$\mu\text{m}$	$242 \pm 7$	
Coating/cladding concentricity error	$\mu\text{m}$	$\leq 12$	
Cable cut-off wavelength	nm	$\leq 1260$	
Attenuation Coefficient	1310nm	dB/km	$\leq 0.36$
	1550nm	dB/km	$\leq 0.22$
Proof stress level	kpsi	$\geq 100$	

ITU-T G.652D (Other parameters meet standard ITU-T)

**Dimensions of cable constructions:**

( Optical fiber number )	12	24	48	72
( Optical fiber type )	SM	SM	SM	SM
( Core structure )	1+5	1+5	1+5	1+6
( The casing diameter ) mm	1.8	1.8	2.1	2.1
( Each tube number )	6	6	12	12
( diameter of ) mm	9.0+16.5	9.0+16.5	10+17.5	10.5+18
( Unit weight ) kg/km	150	150	170	200
( Outer sheath thickness ) mm	1.6	1.6	1.6	1.6
( The wire diameter ) mm	1.4	1.4	1.4	2.0
( Loose casing wall thickness ) mm	0.3	0.3	0.35	0.35

**Cable performance:**

Item		Parameters	
Loose tube	Material	PBT	
Loose tube	Color	Full color spectrum	
Filler	Color	Black	
Outer sheath	material	MDPE	
Outer sheath	Color	Black	
CSM	Material	Phosphating steel wire	
Steel strand	Material	7*1.0 Phosphating steel wire	
Armoured	Material	Corrugated steel belt	
Min. bending radius	Static	10.0	10.0 times cable diameter
	Dynamic	20	20 times cable diameter
Tensile performance	Short term (N)	5000N	
	For a long time (N)	2500N	
Crush Resistance	Short term(N/100mm)	1500N/100mm	
	For a long time (N/100mm)	800N/100mm	

**Environmental performance:**

Item	Standar	Parameters
Operation temperature	IEC 60794-1-2 F1	-40℃~+70℃

**Drum:**

( Optical fiber number)	Height (cm)	Width (cm)	Length(m)	Drum type
12-24	1100	75	3000	Wooden plate
48	1200	75	3000	Wooden plate
72	1300	75	3000	Wooden plate