Self-supporting Cable

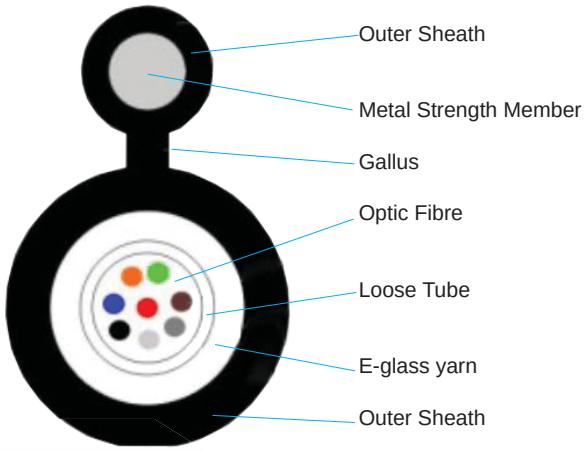
- GYXTC8Y
- GYXTC8S
- GYTC8S

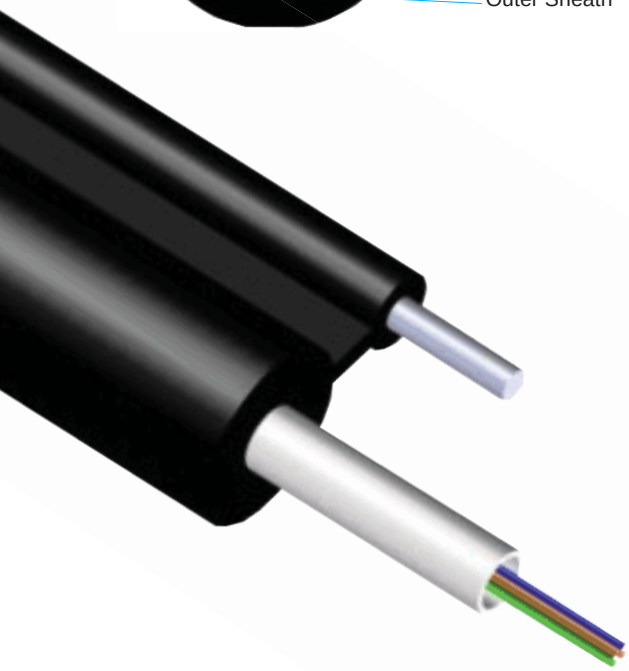
APPLICATION

-Suitable for aerial duct and buried method
-Long distance and local area network communication

CHARACTERISTICS

-Stainless steel or gaivanized steel self-supporting
-Excellet mechanical and environmental performance
-Fiber count: 2-24 cores





Fiber Allocation Scheme			
Fiber number	**Tube number**	**Fiber per tube**	**Fiber type**
2	1	2 F/Tube	SM G652D MM 50/125 MM 62.5/125
4	1	4 F/Tube	
6	1	6 F/Tube	
8	1	8 F/Tube	
12	1	12 F/Tube	
24	1	24 F/Tube	

Cable Construction Details		
Items		**Description**
Number of fibre		2 cores to 24cores
Connector strength member	Material	Galvanized steel wire
	diameter	1.2 mm
Loose tube	Material	PBT
	diameter	Φ2.8
Cable filling	material	Cable filling compound
Outer sheath	material	HDPE
	diameter	1.7±0.2mm

Cable Mechanical Characteristic		
Items	**Cable diameter**	**Weight**
2 cores to 24 cores	3.2*6.5 mm	54 kg/km
Installation Temperature range	-15--+60	
Operation and transport temperature	-40-+70	
Rec.daily max working tension	1500 N	
Max. Allowable working tension	600 N	
Min Bending Radius(mm) operation	10D mm	
Min Bending Radius(mm) installation	20D	
Extra load	0.5%-0.7%	
Ice	5mm	
Wind speed	35m/s	

Fibre Characteristic					
Fiber style		**Unit**	**SM G652D**	**MM 50/125**	**MM 62.5/125**
condition		nm		850/1300	850/1300
attenuation		dB/km		≤3.0/1.0	≤3.0/1.0
Dispersion	1310nm	Ps/ (nm*km)	≥-3.4 ≤3.4	.....	.....
	1550nm	Ps/ (nm*km)	≤18	.....	.....
	1625nm	Ps/ (nm*km)	≤22	.....	.....
Bandwidth	850nm	MHZ. KM	.....	≥ 800	≥500
	1300nm	MHZ. KM	.....	≥ 800	≥500
Zero dispersion wavelength		nm	≥1302,≥1322	.....	.....
Zero dispersion slope		Ps(nm2*km)	≤0.091	.....	.....
PMD Maximum Individual Fiber		Ps√km	≤0.2	.....	.....
PMD Design Link Value		Ps√km	≤0.08	.....	.....
Fibre cutoff wavelength λc		nm	≥ 1180, ≤1330	.....	.....
Cable cutoff wavelength λcc		nm	≤1260	.....	.....
MFD	1310nm	um	9.2±0.4	.....	.....
	1550nm	um	10.4±0.8	.....	.....
Numerical Aperture(NA)			.....	0.200±0.015	0.275±0.015
Step(mean of bidirectional measurement)		dB	≤0.05	≤0.10	≤0.10
Irregularities over fiber length and point discontinuity		dB	≤0.05	≤0.10	≤0.10
Difference backscatter coefficient		dB/km	≤0.03	≤0.08	≤0.10
Attenuation uniformity		dB/km	≤0.01	.....	.....
Core diameter		um	.....	50±1.0	62.5±2.5
Cladding diameter		um	125.0±0.1	125.0±0.1	125.0±0.1
Cladding non-circularity		%	≤1.0	≤1.0	≤1.0
Coating diameter		um	242±7	242±7	242±7
Coating/chaffinch concentrically error		um	≤12.0	≤12.0	≤12.0
Coating non circularity		%	≤6.0	≤6.0	≤6.0
Core/cladding concentricity error		um	0.6	≤1.5	≤1.5
Curl(radius)		um	≤4	.....	.....

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