

## (7955) F. CABO 48 FIBRAS ANTIROEDOR BLIND SM GYTS G652

#### 1. Cable Description

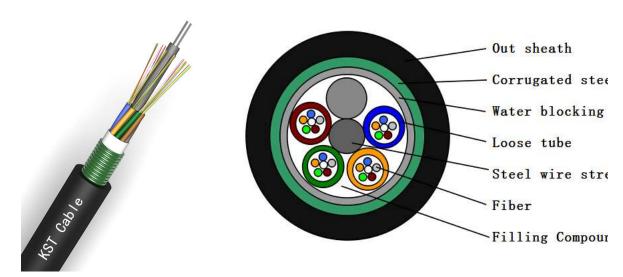
The fibers, single mode or muti mode, are positioned in a loose tube made of a high modult tubes are filled with a water-resistant filling compound. A steel wire, sometimes sheathed wit (PE) for cable with high fiber count, locates in the center of core as a metallic strength memb fillers) are stranded around the strength member into a compact and circular cable core. The longitudinally applied over the cable core, which is filled with the filling compound to protect it ingress. The cable is completed with a PE sheath.

## 2.Application

- · Adopted to outdoor distribution;
- Suitable for aerial, pipeline laying method;
- · Long distance and local area network communication.

#### 3. Characteristics

- · Good mechanical and temperature performance
- · High strength loose tube that is hydrolysis resistant
- · Special tube filling compound ensure a critical protection of fiber
- · Crush resistance and flexibility
- · PE sheath protects cable from ultraviolet radiation
- · The following measures are taken to ensure the cable watertight:
- · Steel wire used as the central strength member
- · Loose tube filling compound and 100% cable core filling
- PSP enhancing moisture-proof and anti rodent



### 4. Cable construction details

Number of fiber	48 core			
Moisture Barrier	Water blocking system			
Central strength member		Material	Steel wire	
		size	1.4mm	
Lagas tuba		material	PBT	
Loose tube		diameter Φ2.0(outer/ii		
Tube-filling		Tube filling compound		
Armoring		Material	Corrugated steel ta	

Outer sheath	material	PE	
	Thickness	1.70±0.2mm	

## 5. Fiber and tube color

Tube color	1	2	3	4		
Tube Color	Blue	Orange	Green	Brown		
	1	2	3	4	5	6
Fiber color	Blue	Orange	Green	Brown	Grey	White
Fiber Color	7	8	9	10	11	12
	Red	Black	Yellow	Violet	Pink	Aqua

# **6.Cable Mechanical characteristic**

core	Cable diameter	weight	
48 cores	9.5±0.3mm	105±5kg/k	
Min Bending Radius(mm)	Long term	10D	
Min BendingRadius(mm)	Short term	20D	
Min allowable Tensile Strength(N)	Long term	600	
Min allowable Tensile Strength(N)	Short term	1500	
Crush Load (N/100mm)	Long term	300	
Crush Load (N/100mm)	short term	1000	
Operationtemperature (°C)	-40+70		
Installationtemperature (°C)	-20+60		

# 7.Fiber characteristic

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Fiber style		l	SM	SM	MM	MM
·		Unit	G652	G652D	50/125	62.5/125
condition		nm	1310/1550	1310/1550	850/1300	850/1300
attenuation		dB/km	$\leq$	$\leq$	$\leq$	≤3.0/1.0
			0.36/0.23	0.34/0.22	3.0/1.0	
Dispresion	1550nm	Ps/(nm*km)		≤18		
Віоргеоїоп	1625nm	Ps/(nm*km)		€22		
Bandwith	850nm	MHZ.KM			≧400	≧ 160
Bandwith	1300nm	MHZ.KM			≧800	≥500
Zero dispersion wavelength				≧ 1302,		
Zero dispersion wavele	ingui	nm	1300-1324	≤1322		
Zero dispresion slope		nm	≤0.092	≤0.091		
PMD Maximum Individual Fibr			≤0.2	≤0.2		
PMD Design Link Value		Ps(nm2*k	≤0.12	≤0.08		
		m)	≥ 1180,	≥ 1180,		
Fibre cutoff wavelength	λc	lnm	≤ 1160,   ≤ 1330	≤ 1160,   ≤ 1330		
Cable sutoffwavelength	λcc	nm	<1260	≤1260		
MFD	1310nm	um	8.7~9.5	8.7~9.5		
MFD	1550nm	um	9.9~10.9	9.9~10.9		
Numerical Aperture(NA)					0.200+/ -0.015	0.275+/-0 015
Step(mean of bidirectional measurement)						
		dB	<b>≤</b> 0.05	≤0.05	≤0.10	≤0.10
Irregularities over fiber						
length and point		dB	<0.05	≤0.05	≤0.10	≤0.10

Dicontinuity					
Difference backscatter coefficient	dB/km	≤0.05	≤0.03	≤0.08	≤0.10
Attenuation uniformity	dB/km	≤0.01	≤0.01		
Core dimater	um			50+/-1.0	62.5+/-2.5
Cladding diameter	um	125.0+/-0.1	125.0+/-0.1	125.0+/-0.1	125.0+/-0.1
Cladding non-circularity	%	≤1.0	≤1.0	≤1.0	≤1.0
Coating diameter	um	242+/-7	242+/-7	242+/-7	242+/-7
Coating/chaffinch concentrically error	um	≤12.0	≤12.0	≤12.0	<b>≤12.0</b>
Coating non circularity	%	≤6.0	≤6.0	≤6.0	≤6.0
Core/cladding conentricity error	um	≤0.6	≤0.6	≤1.5	≤1.5
Curl(radius)	um	≤4	≪4		

# 8.Package

1.**Packing material:** Wooden drum

2.Packing length: standard length of cable shall be 2 km. Other cable length is also available

if required by custome

# 2D 2KM

Is plastic. The h polyethylene per. Tubes (and PSP is t from water

system
ength member
nd

ιре

m

MM

OM3-300
850/1300

<a>3.0/1.0</a>
---Dispresion

Bandwith

<a>1295,</a>
<a>1320</a>
---<a>0.11</a>
-----0.200+/-0
.015

<a>0.10</a>

≤0.10

≤0.08 50+/-1.0 125.0+/-0.1 ≤1.0 242+/-7 ≤12.0 ≤6.0 ≤1.5

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