

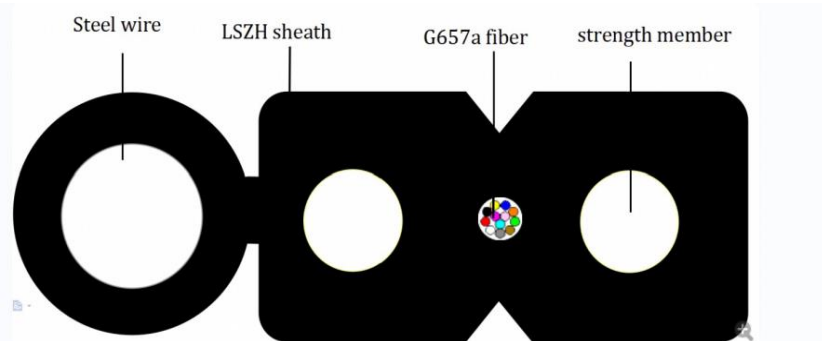
# SPECIFICATION

## Drop cable for FTTx.Aerial application.Flat type

### Application

- 1.Adopted to outdoor level and vertical distribution.
- 2.Suitable for connect with communication equipment.
- 3.Long distance and local area network communication.

(3807)F. CABO DROP 8 FIBRAS G652D SM 2KM M.METAL(0.16CENTSMETRO



ITEM	CONSTRUCTION
FIBER COUNT	8
fiber color	Blue ,Orange, Green, Brown, Grey , White ,Red Black
CABLE DIAMETER	2.8±0.1x6.3±0.3mm
CABLE WEIGHT	32±5kg

Cable's Outer jacket color

black

### Cable construction details

Items	Description	
Number of fiber	8core	
Fiber type	SM G652D	
Messenger	Material	galvanized steel wire
	Diameter	1.2mm
Strength member	Material	galvanized Steel wire
	Diameter	0.5mm±0.05mm
Outer sheath	Material	LSZH
	Diameter	2.8±0.1x6.3±0.3

### Cable Mechanical characteristic

Items	Cable Diameter	Weight(kg/km)
8core	2.8±0.1x6.3±0.3	32±5
Installation Temperature range	-15--+80 °C	
Operation and transport temperature	-20--80 °C	
Storage temperature	-20--+80 °C	
Tensile strength (N)	Long term	500N
	Short term	1000N
Crush load (N/100mm)	Long term	1000N
	Short term	2200N

Min Bending Radius(mm)	Dynamic	30D mm
	Static	15D mm

Remark: All the values in the table are reference value, subject to the actual customer's request.

### Fiber characteristic G652D

Characteristic	Condition	Specified values	Units
Attenuation	1310nm	≤0.34	[dB/km]
	1383nm(after H <sub>2</sub> -aging)	≤0.34	[dB/km]
	1550nm	≤0.20	[dB/km]
	1625nm	≤0.24	[dB/km]
Attenuation vs.Wavelength Max.α difference	1285-1330nm,in reference to 1310nm	≤0.03	[dB/km]
	1525-1575nm,in reference to 1550nm	≤0.02	[dB/km]
Dispersion Coefficient	1285-1340nm	-3.5 to 3.5	[ps/(nm.km)]
	1550nm	≤18	[ps/(nm.km)]
	1625nm	≤22	[ps/(nm.km)]
Zero Dispersion Wavelength( $\lambda_0$ )	--	1300-1324	[nm]
Zero Dispersion Slope( $S_0$ )	--	≤0.092	[ps/(nm <sup>2</sup> .km)]
Typical Value	--	0,086	[ps/(nm <sup>2</sup> .km)]
PMD	Maximum Individual Fibre	--	≤0.1 ps/√km
	LINK Design Value(M=20,Q=0.01%)	--	≤0.06 ps/√km
	Typical Value	--	0,04 ps/√km
Cable Cutoff Wavelength ( $\lambda_{cc}$ )	--	≤1260	[nm]
Mode Field Diameter(MFD)	1310nm	8.7-9.5	[nm]
	1550nm	9.8-10.8	[nm]
Effective Group Index Refraction ( $N_{eff}$ )	1310nm	1,466	--
	1550nm	1,467	--
Point Discontinuities	1310nm	≤0.05	[dB]
	1550nm	≤0.05	[dB]

### Geometrical Characteristics

Cladding Diameter	--	125.0±0.7	[μm]
Cladding Non-Circularity	--	≤1.0	[%]
Coating Diameter	--	235-250	[μm]
Coating-Cladding Concentricity Error	--	≤12.0	[μm]
Coating Non-Circularity	--	≤6.0	[%]
Core-Cladding Concentricity Error	--	≤0.6	[μm]
Curl(radius)	--	≥4	[m]
Delivery Length	--	Up to 50.4	[km/reel]

### Environmental Characteristics

1310nm,1550nm&1625nm

Temperature Dependence Induced Attenuation		-60°C to +85°C	≤0.05	[dB/km]
Temperature-Humidity Cycling Induced Attenuation		-10°C to +85 °C, 98% RH	≤0.05	[dB/km]
Water Immersion Dependence induced Attenuation		23°C, for 30 days	≤0.05	[dB/km]
Damp Heat Dependence Induced Attenuation		85 °C and 85% RH,for 30 days	≤0.05	[dB/km]
Dry Heat Aging		85 °C for 30 days	≤0.05	[dB/km]
<b>Mechanical Specifications</b>				
Proof Test		--	≥9.0	[N]
		--	≥1.0	[%]
		--	≥100	[Kpsi]
Macro-bend Induced Loss	100 Turns Around a Mandrel of 30mm Radius	1625nm	≤0.05	[dB]
	100 Turns Around a Mandrel of 25mm Radius	1310nm and 1550nm	≤0.05	[dB]
	1 Turn Around a Mandrel of 16mm Radius	1550nm	≤0.05	[dB]
Coating Strip Force		typical average force	1,5	[N]
		peak force	1.3-8.9	[N]
Dynamic Fatigue Parameter( $n_d$ )		--	≥20	--

