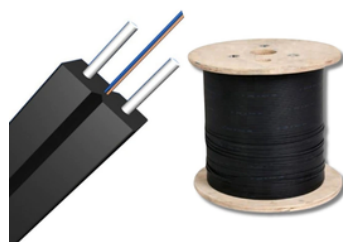
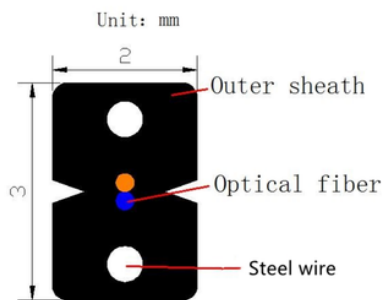


# 2 Core FTTH Drop Cable GJXH Single Mode

GJXH



RS

RS461102

1000m on wooden reel

## Technical Data

No. of cable		2	
Fiber Model		G.657A2	
strength member	Material	steel wire	
	Diameter ( $\pm 0.03$ ) mm	0.4	
	NO.	2	
Outer Sheath	Material	LSZH	
	Color	Black	
Cable size ( $\pm 0.2$ ) mm		2.0x3.0	
Cable Weight ( $\pm 2$ ) kg/km		10	
Allowable Tensile Strength	Short Term	N	80
	Long Term		40
Allowable Crush Resistance	Short Term	N/100mm	2200
	Long Term		1000
Min. bending radius	Without Tension	10x Cable- $\phi$	
	Under Maximum Tension	20x Cable- $\phi$	
Temperature range ( $^{\circ}\text{C}$ )	Installation	-20~+60	
	Transport&Storage	-40~+70	
	Operation	-40~+70	

No.	1	2
Color	Blue	Orange

RS

# 2 Core FTTH Drop Cable GJXH Single Mode

## Main mechanical & environmental performance test

Characteristic	condition	data	unit
<b>Optical properties</b>			
Attenuation	1310nm 1383nm(氢老化后) 1490nm 1550nm 1625nm	≤0.35 ≤0.35 ≤0.23 ≤0.22 ≤0.23	dB/km dB/km dB/km dB/km dB/km
Relative wavelength attenuation @1310nm @1550nm	1285~1330nm 1525~1575nm	≤0.05 ≤0.05	dB/km dB/km
Dispersion in the wavelength range of	1285~1340nm 1550nm	≤3.5 ≤18	ps/(nm.km) ps/(nm.km)
Zero dispersion wavelength		1300~1324	nm
A zero-dispersion slope		≤0.092	ps/(nm <sup>2</sup> .km)
Polarization Mode Dispersion Coefficient PMD Single fiber maximum Fiber link value (M=20, Q=0.01%) Typical value		≤0.2 ≤0.1 0.04	ps/ ps/ ps/
Cable cut-off wavelength (λ <sub>cc</sub> )		≤1260	nm
Mode field diameter (MFD)	1310nm 1550nm	8.8±0.4 9.8±0.5	μm μm
Attenuation discontinuities	1310nm 1550nm	≤0.05 ≤0.05	dB dB
<b>Geometric characteristics</b>			
Core diameter		125±0.7	μm
Cladding roundness		≤0.7	%
Coating diameter		245±5	μm
Coating / package concentricity error		≤12.0	μm
Core / package concentricity error		≤0.5	μm
The warpage (radius)		≥4	m
<b>Environmental characteristics (1310nm、1550nm、1625nm)</b>			
Temperature additional attenuation	-60°C ~ +85°C	≤0.05	dB/km
Temperature-humidity cycle additional attenuation	-10°C ~ +85°C, 98% Relative humidity	≤0.05	dB/km
Flooding additional attenuation	23°C, 30 days	≤0.05	dB/km
Hot and humid additional attenuation	85°C和85% Relative humidity, 30 days	≤0.05	dB/km
Dry heat aging	85°C	≤0.05	dB/km

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## Mechanical properties

Screening tension		≥9.0	N
The macro bend Additional attenuation			
10 CircleΦ30mm	1550nm	≤0.03	dB
10 CircleΦ30mm	1625nm	≤0.1	dB
1 CircleΦ20mm	1550nm	≤0.1	dB
1 CircleΦ20mm	1625nm	≤0.2	dB
1 CircleΦ15mm	1550nm	≤0.5	dB
1 CircleΦ15mm	1625nm	≤1.0	dB
Coating peeling force	Typical average	1.5	N
Dynamic fatigue parameters		≥20	

## Main mechanical & environmental performance test

Item	Test Method	Acceptance Condition
Tensile Strength IEC 60794-1-2-E1	- Load: Short term tension - Length of cable: about 50m	- Fiber strain ≤ 0.36% - Loss change ≤ 0.1 dB @1550 nm - No fiber break and no sheath damage.
Crush Test IEC 60794-1-2-E3	- Load: Short term crush - Load time: 1min	- Loss change ≤ 0.05dB@1550nm - No fiber break and no sheath damage.
Impact Test IEC 60794-1-2-E4	- Points of impact: 3 - Times of per point: 1 - Impact energy: 5J	- Loss change ≤ 0.1dB@1550nm - No fiber break and no sheath damage.
Temperature Cycling Test Y D / T901-2001-4.4.4.1	- Temperature step: +20°C→-40°C→+70°C →+20°C - Time per each step: 12 hrs - Number of cycle: 2	- Loss change ≤ 0.05 dB/km@1550 nm - No fiber break and no sheath damage.