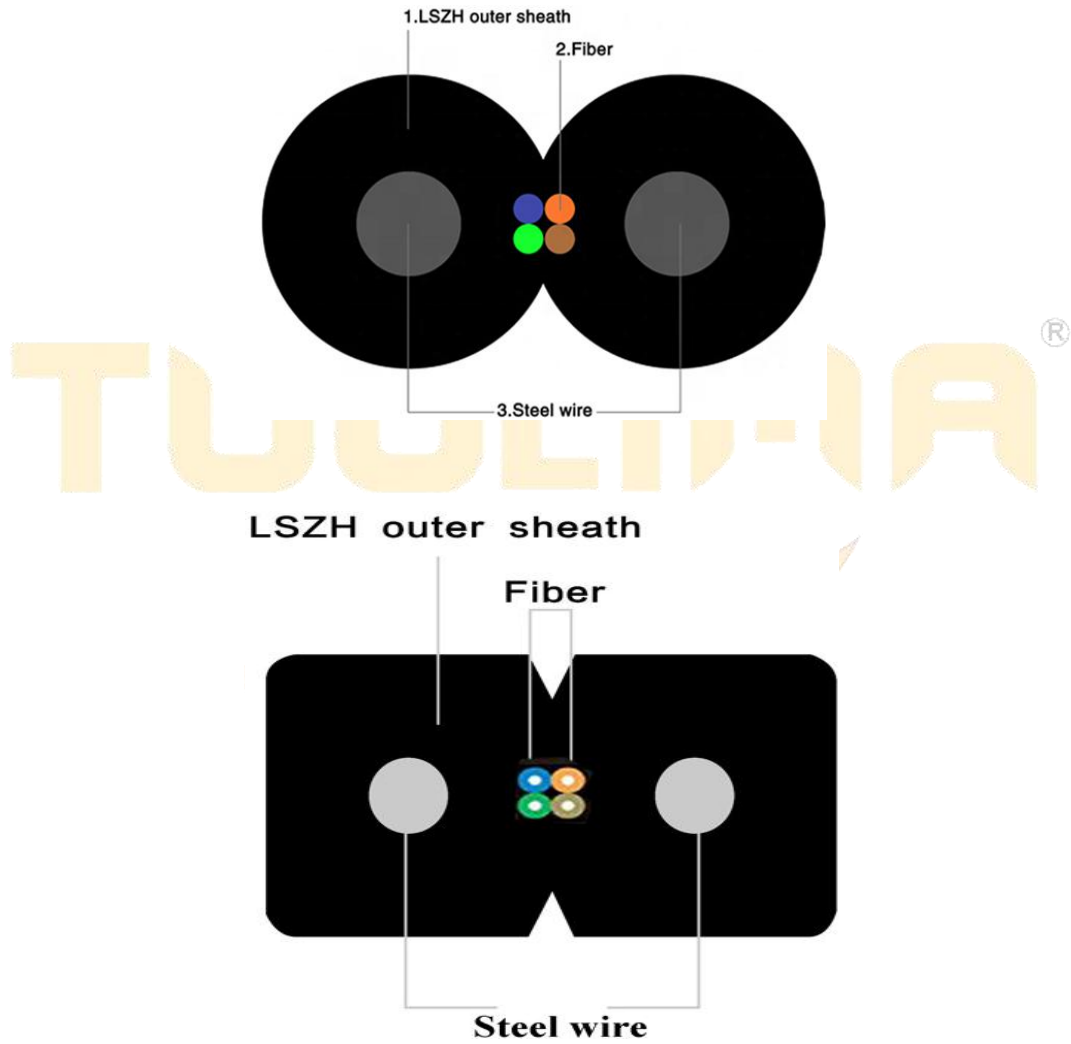


Indoor Drop Cable GJXH-4B6



1. Cable Specification

1.1 Introduction

The optical fiber unit is positioned in the center. Two parallel steel wire are placed at two sides.

Then the cable is completed with black or color LSZH sheath.

1.2 Fiber color code

Fiber color starts from No. 1 Blue.

1.3 Optical fiber type and properties

Item		Unit	Specification
			G. 657A
Mode field diameter	1310nm	μm	8.6 ± 0.4
Cladding diameter		μm	125.0 ± 0.7 [®]
Cladding non-circularity		%	≤1.0
Core concentricity error		μm	≤0.5
Coating diameter		μm	245 ± 5
Coating/cladding concentricity error		μm	≤12
Cable cut-off wavelength		nm	≤ 1260
Attenuation Coefficient	1310nm	dB/km	≤0.35
	1550nm	dB/km	≤0.21
Macro-bend loss (1 turn, 7.5mm radius)	1550nm	dB/km	≤0.5
	1625nm	dB/km	≤1.0
Proof stress level		kpsi	≥100

Other parameters meet standard ITU-T G.657

1.4 Cable structure and parameter

Item		Parameters
No. of fibers	count	4
Strength member	Diameter	0.45 mm
	Material	Steel wire
Outer jacket	Diameter	3.0(±0.1)*2.0(±0.1) mm
	Material	LSZH

	Color	Black
Tensile performance	Short term	200 N
	Long term	100 N
Crush	Short term	2200 N/100mm
	Long term	1100 N/100mm
Cable attenuation		$\leq 0.4\text{dB/km}$ at 1310nm, $\leq 0.3\text{ dB/km}$ at 1550nm
Cable weight (Approx.)		10.0 kg/km

2. Characteristic of Optical Cable

2.1 Min. bending radius for installation

Static: 15

Dynamic: 30

2.2 Application temperature range

Operation: $-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$

Installation: $-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$

Storage/transportation: $-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$

2.3 Main mechanical & environmental performance test

Item	Test Method	Acceptance Condition
Tensile Strength IEC 60794-1-2-E1	- Load: Short term tension - Length of cable: $\geq 50\text{m}$ - Load time: 1min	- Fiber strain $\leq 0.4\%$ - No fiber breakage and no sheath damage.
Crush Test IEC 60794-1-2-E3	- Load: Short term crush - Load time: 1min	- No fiber breakage and no sheath damage.

Impact Test IEC 60794-1-2-E4	<ul style="list-style-type: none"> - Points of impact: 3 - Times of per point: 1 - Impact energy: 1J 	<ul style="list-style-type: none"> - No fiber breakage and no sheath damage.
Repeated Bending IEC 60794-1-2-E6	<ul style="list-style-type: none"> - Bending radius: 30x H - No. of cycle: 300 - Load: 20N 	<ul style="list-style-type: none"> - Fiber additional attenuation should be no more than 0.4dB; - There shall be no damage to the cable elements under visual inspection.
Torsion IEC 60794-1-2-E7	<ul style="list-style-type: none"> - Length: 1m - Twist angle: $\pm 180^\circ$ - No. of cycle: 20 	<ul style="list-style-type: none"> - No fiber breakage and no sheath damage.
Temperature Cycling IEC 60794-1-2-F1	<ul style="list-style-type: none"> - Temperature: $-20^\circ\text{C}\sim+70^\circ\text{C}$ - Time of each step: 8h - Number of cycle: 2 	<ul style="list-style-type: none"> - Fiber additional attenuation should be $\leq 0.4\text{dB/km}$; - There shall be no damage to the cable elements under visual inspection.

