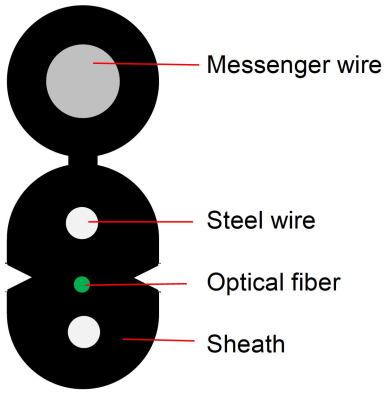
GJYXCH

1. Cable cross-section (not to scale and only for reference)



Not to scale, color is only for showing, may be not exact same as real product color

2. Cable Specification

2.1 Introduction

The optical fiber unit is positioned in the center, two parallel steel wires are placed at two sides, LSZH outer sheath with messenger wire combined.

2.2 Fiber color code

No.	1	2
Color	Green	Yellow

2.3 Optical fiber type and properties

G657A2 Characteristic of Optical Fiber

Item		Unit	Specification
			G. 657A2
Mode field diameter	1310nm	μm	8.6 ± 0.4
	1550nm	μm	9.6 ± 0.5
Cladding diameter		μm	125.0 ± 0.7
Cladding non-circularity		%	≤1.0
Core concentricity error		μm	≤0.5
Coating diameter		μm	242 ± 7
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	≤0.5
	1625nm	dB	≤1.0
Proof stress level		kpsi	≥100

Other parameters meet standard ITU-T G.657

2.4 Cable structure and parameter

Item	Contents	Unit	Value	
Optical Fiber	Number	/	1	2
Strength member	Material	/	Steel wire	
Messenger wire	Diameter	mm	Nominal 1.0	
	Material	/	Galvanized steel wire	
Outer jacket	Dimension	mm	5.2(±0.2)*2.0(±0.2)	
	Material	/	LSZH	
	Color	/	Black	
Tensile performance	Short term	N	660	
Crush	Short term	N/100mm	2200	
Cable attenuation		dB/km	≤0.4 at 1310nm, ≤0.3 at 1550nm	
Cable weight (Approx.)		kg/km	20	

3. Characteristic of Optical Cable

3.1 Min. bending radius without messenger wire

Static: 20mm

Dynamic: 40mm

3.2 Application temperature range

Operation: - 20℃ ~ +65℃

Installation: 0℃ ~ +60℃

Storage/transportation: - 20℃ ~ +65℃

3.3 Main mechanical & environmental performance test

Item	Test Method	Acceptance Condition
Tensile Strength NBR 13512	- Load: short term tension - Length of cable: 25m×6	- Loss change ≤ 0.1dB@1550nm after test. - No fiber break and no sheath damage.
Crush Test NBR 13507	- Load: short term crush - Load increase rate: 5mm/min - Load time: 2min	- Loss change ≤ 0.1dB@1550nm after test. - No fiber break and no sheath damage.