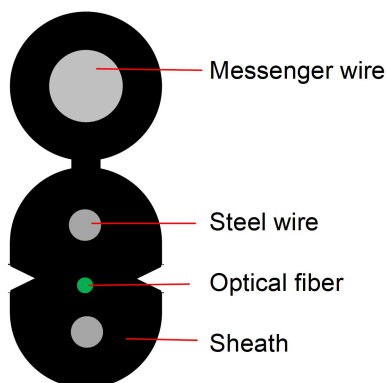




GJYXCH

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



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
Color	Green

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	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	≤ 0.5
	1625nm	dB	≤ 1.0
Proof stress level		kpsi	≥ 100

Other parameters meet standard ITU-T G.657

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2.4 Cable structure and parameter

Item	Contents	Unit	Value
Optical Fiber	Number	/	1
Strength member	Material	/	Steel wire
Messenger wire	Diameter	mm	Nominal 1.0
	Material	/	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.

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