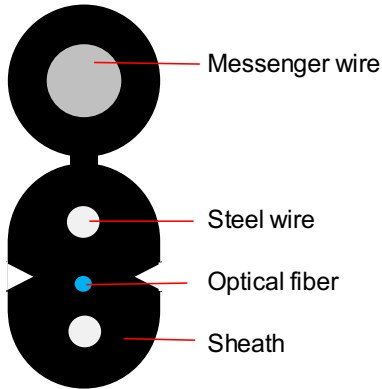


GJYXCH

1. Cable cross-section



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	Blue

2.3 Optical fiber type and properties

G657A Characteristic of Optical Fiber

Item	Unit	Specification	
		G. 657A2	
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
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	/	/	1~2
Strength member	Material	/	Steel wire

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Item	Contents	Unit	Value
Messenger wire	Diameter	mm	Nominal 1.0
	Material	/	Steel wire
Outer jacket	Dimension	mm	5.2(±0.2)*2.0(±0.2) 3.0(±0.2)*2.0(±0.2) without messenger wire
	Material	/	LSZH
	Color	/	Black
Tensile performance	Short term	N	600
Crush	Short term	N/100mm	2200
Cable attenuation		dB/km	≤0.4 at 1310nm, ≤0.3 at 1550nm
Cable weight (Approx.)		kg/km	19.5

3. Characteristic of Optical Cable

3.1 Min. bending radius without messenger wire

Static: 30mm

Dynamic: 60mm

3.2 Application temperature range

Operation: -20°C ~ +65°C

Installation: 0°C ~ +60°C

Storage/transportation: -20°C ~ +65°C

3.3 Main mechanical & environmental performance test

Item	Test Method	Acceptance Condition
Tensile Strength IEC 60794-1-2-E1	- Load: Short term tension - Length of cable: ≥ 50m - Load time: 1min	- Loss change ≤ 0.1dB@1550nm after test. - No fiber break and no sheath damage.
Crush Test IEC 60794-1-2-E3	- Load: Short term crush - Load time: 1min	- Loss change ≤ 0.1dB@1550nm after test. - No fiber break and no sheath damage.
Flame retardant IEC 60332-1	- Sample length: 600mm ± 25mm - Time: 60s	- Pass the single cable vertical flame propagation test.

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