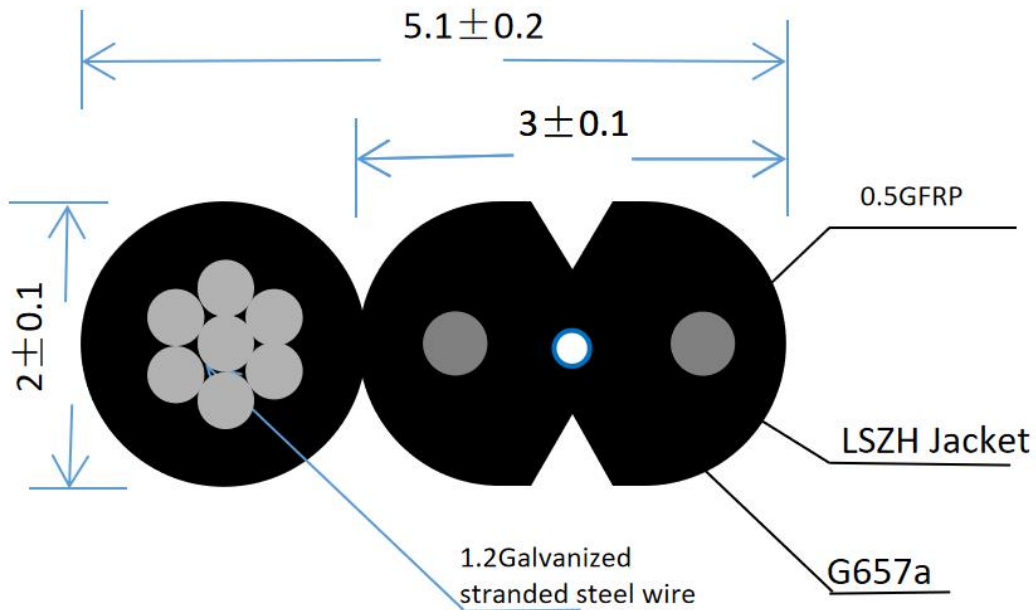


# GJYXFCH

## Cross Section of Cable



## Optical Fiber Type and Properties

Category	Description		Specifications
			G.657A1
Optical Specifications	Attenuation	@1310nm	$\leq 0.36$ dB/km
		@1550nm	$\leq 0.22$ dB/km
	Zero Dispersion Wavelength		1300~1324nm
	Zero Dispersion Slope		$\leq 0.092$ ps/(nm <sup>2</sup> .km)
	Dispersion	@1310nm	$\leq 3.5$ ps/nm.km
		@1550nm	$\leq 18.0$ ps/nm.km
	Cable Cutoff Wavelength( $\lambda_{cc}$ )		$\leq 1260$ nm
	Polarization Mode Dispersion (PMD)		$\leq 0.2$ ps/ $\sqrt{\text{km}}$
Macro-bend induced attention 10 turns around a mandrel of 15mm radius at 1550nm		$\leq 0.25$ dB	

Geometric Specifications	Mode Field Diameter	@1310nm	8.6±0.4μm
	Cladding Diameter		125±1μm
	Cladding Non-Circularity		≤1.0%
	Coating Diameter		243±7μm
	Coating/Cladding Concentricity Error		≤8μm
	Core/Cladding Concentricity Error		≤0.5μm
Mechanical Specifications	Proof Test level		≥1.0%
	Fiber Curl Radius		≥4.0m
	Peak Coating Strip Force		1.3~8.9N

### Dimensions of Cable Constructions

Item		Parameters
Fiber	Color	Blue
	Number of cores	1 core
Strength member	Material	GFRP
	Diameter	2*0.5mm
Messenger wire	Material	Galvanized Steel strand
	Diameter	0.4mm*7
Jacket material	Material	LSZH
	Color	Black
Cable diameter	Nominal	2.0(±0.1) mm * 5.1(±0.2)mm
	Without messenger wire	(2.0±0.1) * (3.0±0.1)
Min. bending radius	Static	15D
	Dynamic	30D
Tensile performance	Short term	600N
Crush	Short term	2200N/100m
Weight(kg/km) (approx.)	-	18.5

### Mechanical and Environmental Characteristics

Item	Test standard	Spec	Acceptance Criteria
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Temperature Range Transportation &Storage	—————	-10 to +70°C	—————
Temperature Range Installation	—————	-10 to +70°C	—————
Temperature Cycling	IEC 60794-1-2-F1	-25 to +70°C	Additional Loss≤0.4dB/km
Cable Bend	IEC 60794-1-2-E11A	5×cable Diameter	No fiber breakage
Dynamic Load (short term)	IEC 60794-1-2-E1A	600N	Fiber strain<0.4% Without residual additional Loss
Crush	IEC 60794-1-2-E3	2200N/100mm	No fiber breakage
Impact	IEC 60794-1-2-E4	1 N*m	No fiber breakage
Flame retardant property of optical cable	IEC-60332-1	--	Single vertical combustion test qualified

### Optical Characteristics

Type of Fiber	G657A1
Attenuation in cable	0.36dB/km @1310nm 0.22dB/km @1550nm

### Other

Sheath Color	Black
Sheath Marking	Ink printing
The length of delivery	According to the customer's requirement

-End of Specification-