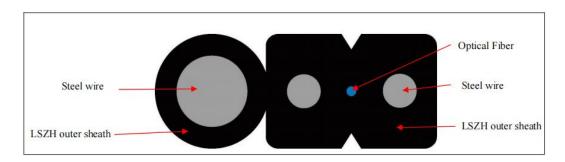


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Overviews

The optical fiber unit is positioned in the centre. Two parallel steel wires are placed at the two sides. A steel wire as the additional strength member is also applied. Then, the cable is completed with a black or color LSZH sheath.

Cable structure diagram





Fiber Color Code

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

Application

• Internal FTTH applications horizontal and riser, especially suitable for the last leg in FTTH systems.

Feature

- Outdoor , with Fig 8 messenger
- Low dispersion and attenuation
- LSZH materal with good flame-retardance.
- Steel wire self-supporing can up of 50 meters pull-fly
- Special low bending sensitivity optical fiber provides high bandwidth and excellent communication transmission performance;
- Two parallel steel wire reinforcements ensure good compression resistance and protect fibers;
- Steel wires serve as additional reinforcements to ensure good tensile properties;
- Simple structure, light weight and high practicality;
- Novel chip removal groove design, easy to strip and splice, simplifying installation and maintenance

Parameters of fiber

Optical fiber type	Unit	SM G652D	SM G657A1	SM G657A2	MM 50/125	MM 62.5/125
Waveband	nm	1310/1550	1310/1550	1310/1550	850/1300	850/1300
Attenuation	dB/km	0.36/0.24	0.36/0.24	0.36/0.24	3.5/1.5	3.5/1.5

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Optical fiber G657A2 Technical Specifications

Optical fiber complies with **ITU-T G657A2** standard, **G657A2** is the best standard in optical fiber. **G657A2** technical parameters are as follows:

Item		Technology Parameter	Technology Parameter			
		1310nm	≤0.36dB/km			
	aalamath Attamustian	1550nm	≤0.22dB/km			
	wavelength Attenuation	1383nm	≤0.35dB/km			
		1310-1625nm	≤0.36dB/km			
	Zero Dispersion Wavelength	1300-1322nm				
	Zero Dispersion Slope	ps/(nm2 .km) ≤0.091				
	Typical Value	ps/(nm2 .km) 0.086				
		Maximum Individual Fiber	0.2 ps/√km			
Ontinal Characteristics	PMD	Link Design Value(M=20, Q=0.01%)	0.15 ps/vkm			
Optical Characteristics		Typical Value	0.04 ps/√km			
	Cable Cutoff Wavelength λcc	≤1260nm				
	Fiber Cutoff Wavelength λc	1150-1330nm				
	Mada Field Diameter (MED)	1310nm	8.6±0.4μm			
	Mode Field Diameter(MFD)	1550nm	9.6±0.5μm			
	Effective Group Index of	@1310nm	1.4672			
	Refraction	@1550nm	1.4683			
	Attonuation Discontinuity	1310nm	dB/km ≤0.05			
	Attenuation Discontinuity	1550nm	dB/km ≤0.05			
	Cladding Diameter	125±0.7μm				
	Cladding Non-circularity	≤0.8%				
Geometrical	Core-Cladding Concentricity Error	≤0.5μm				
Characteristics	Coating Diameter	245±5μm				
	Cladding-Coating Concentricity Error	≤12μm				
		≤3.0%				

GJYXCH-XXB6a2

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	Curl	≥4m			
	Mada Field Diameter/MED)	1310nm	8.6±0.4μm		
	Mode Field Diameter(MFD)	1550nm	9.6±0.5μm		
	Effective Group Index of	@1310nm	1.4672		
	Refraction	@1550nm	1.4683		
	Attenuation Discontinuity	1310nm	≤0.05dB/km		
		1550nm	≤0.05dB/km		
Environmental Characteristics	Temperature Dependence Induced Attenuation	-60℃ to +85℃	≤0.05dB/km		
(1310nm, 1550nm, 1625nm)	Temperature Humidity Cycling Induced Attenuation	85℃,RH85%, 30 days	≤0.05dB/km		
	Water Soak Dependence Induced Attenuation	23℃,30 days	≤0.05dB/km		
	Dry Heat Aging	85℃,30 days	≤0.05dB/km		
		≥1.02%			
	Proof Test	≥9.1N			
		≥0.704Gpa	1		
	Coating Strip Force	Peak Force	1.3-8.9N		
		Typical Value	1.9N		
	Tensile Strength	Weibull Probability 50%	≥4000 Mpa		
		Weibull Probability 15%	≥3050 Mpa		
Mechanical	Dynamic Stress Corrosion Susceptibility Parameter Nd	≥20			
Characteristics		10 turns with radius of 15mm at 1550nm	≤0.03dB		
		10 turns with radius of 15mm at 1625nm	≤0.1dB		
	Macro-bend Induced Attenuation	1 turn with radius of 10mm at 1550nm	≤0.1dB		
		1 turn with radius of 10mm at 1625nm	≤0.2 dB		
		1 turn with radius of 7.5mm at 1550nm	≤0.4dB		
		1 turn with radius of 7.5mm at 1625nm	≤0.8dB		

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Dimensions and Descriptions

Items		Descriptions			
Optical Fiber	Fiber count	2	4	6	
	Color	Blue/Orange	Blue/Orange/ Green/Brown	Blue/Orange/ Green/Brown/ Grey/White	
Strength Member	Material	Steel wire			
	Diameter	0.45mm			
Messenger wire	Material	Steel wire			
	Diameter	1.0mm			
Outer Sheath	Material	LSZH			
	Color	Black			
Cable Diameter	5.2*2.0mm				
Cable Weight	Approx. 22kg/km				

Main Mechanical and Environmental Performance

Performance	L	ong-term	Short-term		
Max. Tension (N)		330	600		
Max. Crushing Resistance(N/100mm)		1000	2200		
Min. Bending Radius	B1.3	60mm (Dynamic)	B1.3	30mm(Static)	
	В6	40mm (Dynamic)	В6	20mm(Static)	
Storage and operating temperature			-20℃-+	60℃	

Appearance and packaging

- No damage on the surface; no trachoma.
- Wooden tray packaging; wood whole seal packaging
- Segment length: no less than 1000M. The segment length of each tray of the same batch shall be similar as
- much as possible. Other lengths can be agreed upon through consultation.
- Report certificate: It includes optical cable inspection number, optical cable type, core number, optical fiber type, length, etc

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HONDAO Cable Advantages

- The color of the optical cable can be black, white, or gray. Black/white is the norm, and gray is recommended. The gray color is more advanced.
- Colorful ribbons can be printed on the side of the optical cable. The colors are selectable. The ribbons make the optical fibers look more obvious and easy to distinguish.
- The optical fiber reel is made of PVC material. Compared with traditional reel materials, the PVC reel will not be affected by thermal expansion. The PVC tube in the middle will not loosen or shrink, and there will be no after-sales problems.
- Optical fiber packaging is divided into two types, carton packaging and cardboard-free packaging. The outside of the packaging is wrapped with plastic film to prevent rain and moisture.
- Advantage five: Text is printed every one meter on the optical cable. The text content can be customized such as: company name, year of manufacture, cable model, optical fiber standard, length, etc.
- The panel can be customized with LOGO, text, specifications, etc.
- Supports a variety of customizations, and can customize optical cables according to your specifications for optical fibers.



We produce a wide selection of network equipment under HONDAO brand. Gather housands of products, which are supplier to customs of different filled and different requirement. QC team test all goods before shipment. We screen the Chinese supplier in a search