富春江光电
FCJ OPTO TECH

product catalogue

FCJ OPTO TECH

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CONTENT

富春江光电 FCJ OPTO TECH

Company INTRODUCTION

FCJ Group:

FCJ Group was founded in 1985, the Company is located in Fuyang district, hangzhou city, Zhejiang province, China.

Main business :

1).Photoelectric Science and Technology :
FCJ OPTO TECH. & Yongte Information Tech.
2).Electrical equipment :
Hangzhou Cable Co., Ltd. (stock code 603678)
3).Energy saving and environmental protection industry:
FCJ Environmental Thermoelectric Co., Ltd.
(stock code 002479)

Main productsand annual capacity:

Optical preform: 600Ton
Optical fiber: 120 Million fiber Kilometers
Optical cable: 150 Million fiber Kilometers
FTTH drop cable: 200Million kilometers
Passive components: 10 Million sets

FCJ OPTO TECH.:

FCJ OPTO TECH is ISO certified company which established in 1992, with a registered capital of 300 million RMB. Headquarter covers an area of nearly 20 hectare and has construction area of more than 140,000 square meters. The company has nearly 500 employees with a strong team of professional and technical personnel. FCJ is one of the top10 famous manufacture of optical fiber and cables in China.

Wherever you are, we FCJ always can be your strong supporter in the field of optical communication. We'd like to hear from you any time!


Why do business with FCJ:

1.Established in 1985 to engage in the communications industry.
2.R&D the first telephone cable of Hangzhou in 1986.
3.R&D the first optic cable of Zhejiang Province in 1988.
4.FCJ owns two listed companies, Hangzhou Cable Co., Ltd. (stock code 603678) and Zhejiang Fuchunjiang Environmental Thermoelectric Co., Ltd. (stock code 002479).
5.FCJ is one of the top 500 private enterprises in China. The top 10 in China, the top 5 in Zhejiang Province and the top 3 in Hangzhou in the communications industry.
6.FCJ is one of the standard-setting members of China Communication Industry.
7.National Telecom Operator Designated Supplier.
8.Opto Communication Industrial Park covering an area of 100,000 square meters.
9.41 invention patents
10.Independent production with complete intellectual property of preform and optic fiber.
11.One-stop R&D and production of perform, optic fiber, cable and components.
12.Can offer a variety of customized optic cables.
13.30-year quality assurance
14.Suppliers to operators and customers of India, Malaysia, Sri Lanka, Pakistan, Nepal, Uzbekistan, Mexico, Brazil, Argentina, Peru, etc.
15.Professional team:
Engineer has worked in the communications industry for more than 20 years, with working experience in YOFC, FIBERHOME.
Sales manager has worked in the communications industry for 15+ years.

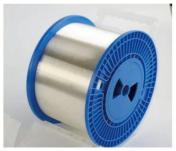

Production workshop



Optical-Technology Waveband Expanded Non-Dispersion Shifted Single-Mode Optical Fiber(G.652.D)

Structure:



Feature:

1260~1625 full band transmission，superior optical property satisfies the transmission requirements

Application:

Suitable for all optical cable constructions，including ribbon，loose tube stranded，slotted core，central tube tight buffered designs

Packing & Storage:

Ensure no foreign matte on the reel and fiber surface，wrap it with film and cover，and label fiber coding on the reel and cover respectively.

The packaged optical fiber is stored at a constant temperature of 25℃ in a light-proof warehouse . The products are fixed in the carton when they are shipped out of the warehouse. The carton number and fiber coding information are attached to the carton, and the electronic test report is attached to each shipment.

Standards:

G.652.D comply with or exceed ITU-T G.652.D & IEC B1.3 specifications

Dimensional Specifications

Type	Specification	Type	Specification
Cladding Diameter	125.0±0.7 um	Coating Non-circularity	≤6 %
Cladding Non-circularity	≤0.7%	Core-Clad Concentricity	≤0.5 um
Coating Diameter	243±7 um	Fiber Curl(radius)	≥4 m
Coating-Cladding Concentricity	≤10 um	Delivery Length	2.1-50.4(km/reel)

Optical Specifications

Type		Specification	Type		Specification
Mode-Field Diameter (MFD)	@1310nm	9.2±0.4 um	Point Discontinuity	@1310nm	≤0.04 dB
	@1550nm	10.4±0.6 um		@1550nm	≤0.04 dB
Attenuation	@1310nm	≤0.34 dB / km	Polarization Mode Dispersion（PMD）	Maximum Individual Fiber PMD	≤0.2 ps/(km$^{1/2}$)
	@1383nm	≤0.34 dB / km		PMD Link Design Value （M=20, Q=0.01%）	≤0.1 ps/(km$^{1/2}$)
	@1550nm	≤0.20 dB / km		Typical Value	0.04 ps/(km$^{1/2}$)
	@1625nm	≤0.24 dB / km	Zero Dispersion Slope(S_0)		≤0.092 ps/(nm^2.km)
Attenuation VS. Wavelength	@1285-1330nm, Ref. λ@1310nm	≤0.04 dB / km	Dispersion in the range of wavelength	1285～1339nm	≥-3.4, ≤3.4ps/(nm.km)
	@1525-1575nm, Ref. λ@1550nm	≤0.03 dB / km		1271～1360nm	≥-3.4, ≤5.3 ps/(nm.km)
Zero Dispersion Wavelength(λ_0)		1312±12 nm	Cable Cutoff Wavelength λcc		≤1260nm

Mechanical Specifications

Type		Specification	Type		Specification
Proof Test		≥9.0N, ≥1.0%, ≥100Kpsi	Macrobend Loss	1turn, Φ32mm@1550nm	≤0.05 dB
Dynamic stress corrosion susceptibility parameters (Nd)		≥20		100 turns, Φ50mm@1310nm&1550nm	≤0.05 dB
Coating Strip Force	Average	1.5N		100 turns, Φ60mm@1625nm	≤0.1 dB
	Peak	1.3-8.9N			

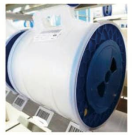
Environmental Specifications

Type	Specification	Type	Specification
Temperature Dependence（-60℃ to ±85℃,@1550nm）	≤0.05 dB / km	Dry Heat Soak（85±2℃, 30 days@1550nm）	≤0.05 dB / km
Temperature Humidity Cycling（-10℃to±85℃, at 98%RH , @1550nm）	≤0.05 dB / km	Damp Heat（85±2℃, at 85%RH, 30 days @1550nm）	≤0.05 dB / km
Water Immersion（23±2℃, 30 days@1550nm）	≤0.05 dB / km		

Low Loss Single-mode Optical Fiber(LL.G.652.D)

Structure:





Feature:

Low Loss Single-mode Fiber is specially designed for optical transmission systems which operates over the entire wavelength window from 1260 nm to 1625 nm. By suppressing the water peak that occurs near 1383 nm in conventional single mode fiber due to hydroxyl (OH^-) ions absorption, Low loss single-mode fiber is able to open E-band (1360 to 1460nm) for operation, and consequently provides 100 nm more usable wavelengths. It is effectively optimized for much lower attenuation level across the entire wavelength window from 1260 nm up to 1625 nm

Application:

Suitable for all optical cable constructions，including ribbon，loose tube stranded，slotted core，central tube tight buffered designs

Packing & Storage:

Ensure no foreign matte on the reel and fiber surface，wrap it with film and cover，and label fiber coding on the reel and cover respectively.

The packaged optical fiber is stored at a constant temperature of 25℃ in a light-proof warehouse . The products are fixed in the carton when they are shipped out of the warehouse. The carton number and fiber coding information are attached to the carton, and the electronic test report is attached to each shipment.

Standards:

G.652.D comply with or exceed ITU-T G.652.D & IEC B1.3 specifications

Dimensional Specifications

Type	Specification	Type	Specification
Cladding Diameter	125.0±0.7 um	Coating Non-circularity	≤6 %
Cladding Non-circularity	≤0.7%	Core-Clad Concentricity	≤0.5 um
Coating Diameter	243±7 um	Fiber Curl(radius)	≥4 m
Coating-Cladding Concentricity	≤10 um	Delivery Length	2.1-50.4(km/reel)

Optical Specifications

Type		Specification	Type		Specification
Mode-Field Diameter (MFD)	@1310nm	9.2±0.4 um	Point Discontinuity	@1310nm	≤0.04 dB
	@1550nm	10.4±0.6 um		@1550nm	≤0.04 dB
Attenuation	@1310nm	≤0.32 dB / km	Polarization Mode Dispersion（PMD）	Maximum Individual Fiber PMD	≤0.1 ps/(km$^{1/2}$)
	@1383nm	≤0.32 dB / km		PMD Link Design Value（M=20, Q=0.01%）	≤0.06 ps/(km$^{1/2}$)
	@1550nm	≤0.18 dB / km		Typical Value	0.04 ps/(km$^{1/2}$)
	@1625nm	≤0.20 dB / km	Zero Dispersion Slope(S_0)		≤0.092 ps/(nm^2.km)
Attenuation VS. Wavelength	@1285-1330nm, Ref. λ@1310nm	≤0.03 dB / km	Dispersion in the range of wavelength	1285～1339nm	≥-3.4, ≤3.4ps/(nm.km)
	@1525-1575nm, Ref. λ@1550nm	≤0.02 dB / km		1550nm	≤18 ps/(nm.km)
				1625nm	≤22 ps/(nm.km)
Zero Dispersion Wavelength(λ_0)		1312±12 nm	Cable Cutoff Wavelength λcc		≤1260nm

Mechanical Specifications

Type		Specification	Type		Specification
Proof Test		≥9.0N, ≥1.0%, ≥100Kpsi	Macrobend Loss	1turn, Φ32mm@1550nm	≤0.04 dB
Dynamic stress corrosion susceptibility parameters (Nd)		≥20		100 turns, Φ50mm@1310nm&1550nm	≤0.04 dB
Coating Strip Force	Average	1.5N		100 turns, Φ60mm@1625nm	≤0.08dB
	Peak	1.3-8.9N			

Environmental Specifications

Type	Specification	Type	Specification
Temperature Dependence（-60℃ to ±85℃,@1550nm）	≤0.05 dB / km	Dry Heat Soak（85±2℃, 30 days@1550nm）	≤0.05 dB / km
Temperature Humidity Cycling（-10℃to±85℃, at 98%RH , @1550nm）	≤0.05 dB / km	Damp Heat（85±2℃, at 85%RH, 30 days @1550nm）	≤0.05 dB / km
Water Immersion（23±2℃, 30 days@1550nm）	≤0.05 dB / km		

Bend Insensitive Single-mode Optical Fiber (G.657.A1)

Structure:




Feature:

* Superior anti-bending property;
* Fully compatible with G.652 single-mode fiber. Full band (1260～1626 nm) transmission;
* Low PMD for high bit-rate and long distance transmission. Extremely low micro-bending attenuation, applicable for * all optical cable types including ribbons;
* High anti-fatigue parameter ensures service life under small bending radius.

Application:

All cable constructions, 1260～1626nm full band transmission, FTTH high speed optical routing, optical cable in small bend radius, small-size optical fiber cable and device, L-band

Packing & Storage:

Ensure no foreign matte on the reel and fiber surface，wrap it with film and cover，and label fiber coding on the reel and cover respectively.

The packaged optical fiber is stored at a constant temperature of 25℃ in a light-proof warehouse . The products are fixed in the carton when they are shipped out of the warehouse. The carton number and fiber coding information are attached to the carton, and the electronic test report is attached to each shipment.

Standards:

The fiber complie with or exceed the technical specifications in ITU-T G.657.D /A1

Dimensional Specifications

Type	Specification	Type	Specification
Cladding Diameter	125.0±0.7 um	Coating Non-circularity	≤6 %
Cladding Non-circularity	≤0.7%	Core-Clad Concentricity	≤0.5 um
Coating Diameter	243±7 um	Fiber Curl(radius)	≥4 m
Coating-Cladding Concentricity	≤10 um	Delivery Length	2.1-50.4(km/reel)

Optical Specifications

Type		Specification	Type		Specification
Mode-Field Diameter (MFD)	@1310nm	8.8±0.4 um	Point Discontinuity	@1310nm	≤0.04 dB
	@1550nm	9.8±0.6 um		@1550nm	≤0.04 dB
Attenuation	@1310nm	≤0.35 dB / km	Polarization Mode Dispersion（PMD）	Maximum Individual Fiber PMD	≤0.1 ps/(km$^{1/2}$)
	@1383nm	≤0.35 dB / km		PMD Link Design Value（M=20, Q=0.01%）	≤0.06 ps/(km$^{1/2}$)
	@1550nm	≤0.21 dB / km		Typical Value	0.04 ps/(km$^{1/2}$)
	@1625nm	≤0.23 dB / km	Zero Dispersion Slope(S_0)		≤0.092 ps/(nm^2.km)
Attenuation VS. Wavelength	@1285-1330nm, Ref. λ@1310nm	≤0.03 dB / km	Dispersion in the range of wavelength	1550nm	≤18ps/(nm.km)
	@1525-1575nm, Ref. λ@1550nm	≤0.02 dB / km		1625nm	≤22 ps/(nm.km)
Zero Dispersion Wavelength(λ_0)		1312±12 nm	Cable Cutoff Wavelength λcc		≤1260nm

Mechanical Specifications

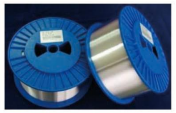
Type		Specification	Type		Specification
Proof Test		≥9.0N, ≥1.0%, ≥100Kpsi	Macrobend Loss	1turn, Φ20mm@1550nm&1625nm	≤0.05 dB,≤1.0 dB
Dynamic stress corrosion susceptibility parameters (Nd)		≥20		10 turns, Φ30mm@1550nm&1625nm	≤0.15 dB,≤0.75 dB
Coating Strip Force	Average	1.5N			
	Peak	1.3-8.9N			

Environmental Specifications

Type	Specification	Type	Specification
Temperature Dependence（-60℃ to ±85℃,@1550nm）	≤0.05 dB / km	Dry Heat Soak（85±2℃, 30 days@1550nm）	≤0.05 dB / km
Temperature Humidity Cycling（-10℃to±85℃, at 98%RH , @1550nm）	≤0.05 dB / km	Damp Heat（85±2℃, at 85%RH, 30 days @1550nm）	≤0.05 dB / km
Water Immersion（23±2℃, 30 days@1550nm）	≤0.05 dB / km		

Bend Insensitive Single-mode Optical Fiber (G.657.A2)

Structure:

Feature:

* Minimum bend radius 7.5mm, superior anti-bending property;
* Fully compatible with G.652 single-mode fiber. Full band (1260～1626nm) transmission;
* Low PMD for high bit-rate and long distance transmission. Extremely low micro-bending attenuation, applicable for all optical cable types including ribbons;
* High anti-fatigue parameter ensures service life under small bending radius.

Application:

All cable constructions, 1260～1626nm full band transmission, FTTH high speed optical routing, optical cable in small bend radius, small-size optical fiber cable and device, L-band

Packing & Storage:

Ensure no foreign matte on the reel and fiber surface， wrap it with film and cover， and label fiber coding on the reel and cover respectively.

The packaged optical fiber is stored at a constant temperature of 25℃ in a light-proof warehouse . The products are fixed in the carton when they are shipped out of the warehouse. The carton number and fiber coding information are attached to the carton, and the electronic test report is attached to each shipment.

Standards:

The fiber complie with or exceed the technical specifications in ITU-T G.657.A1/A2/B2

Dimensional Specifications			
Type	Specification	Type	Specification
Cladding Diameter	125.0±0.7 um	Coating Non-circularity	≤6 %
Cladding Non-circularity	≤0.7%	Core-Clad Concentricity	≤0.5 um
Coating Diameter	243±7 um	Fiber Curl(radius)	≥4 m
Coating-Cladding Concentricity	≤10 um	Delivery Length	2.1-50.4(km/reel)

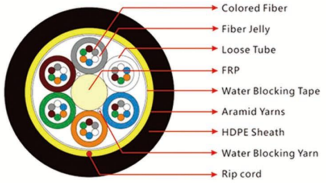
Optical Specifications					
Type		Specification	Type		Specification
Mode-Field Diameter (MFD)	@1310nm	8.6±0.4 um	Point Discontinuity	@1310nm	≤0.04 dB
	@1550nm	9.8±0.6 um		@1550nm	≤0.04 dB
Attenuation	@1310nm	≤0.35 dB / km	Polarization Mode Dispersion（PMD）	Maximum Individual Fiber PMD	≤0.1 ps/(km$^{1/2}$)
	@1383nm	≤0.35 dB / km		PMD Link Design Value （M=20, Q=0.01%）	≤0.06 ps/(km$^{1/2}$)
	@1550nm	≤0.21 dB / km		Typical Value	0.04 ps/(km$^{1/2}$)
	@1625nm	≤0.23 dB / km	Zero Dispersion Slope(S_0)		≤0.092 ps/(nm^2.km)
Attenuation VS. Wavelength	@1285-1330nm, Ref. λ@1310nm	≤0.03 dB / km	Dispersion in the range of wavelength	1550nm	≤18ps/(nm.km)
	@1525-1575nm, Ref. λ@1550nm	≤0.02 dB / km		1625nm	≤22 ps/(nm.km)
Zero Dispersion Wavelength(λ_0)		1312±12 nm	Cable Cutoff Wavelength λcc		≤1260nm

Mechanical Specifications				
Type	Specification	Type		Specification
Proof Test	≥9.0N, ≥1.0%, ≥100Kpsi	Macrobend Loss	1turn,Φ15mm@1550nm&1625nm	≤0.05 dB,≤1.0 dB
			1turn,Φ20mm@1550nm&1625nm	≤0.10 dB,≤0.20 dB
Dynamic stress corrosion susceptibility parameters (Nd)	≥20		10turns,Φ30mm@1550nm&1625nm	≤0.03 dB,≤0.10 dB
Coating Strip Force	Average 1.5N			
	Peak 1.3-8.9N			

Environmental Specifications			
Type	Specification	Type	Specification
Temperature Dependence(-60℃ to ±85℃,@1550nm）	≤0.05 dB / km	Dry Heat Soak（85±2℃, 30 days@1550nm）	≤0.05 dB / km
Temperature Humidity Cycling（-10℃to±85℃, at 98%RH , @1550nm）	≤0.05 dB / km	Damp Heat（85±2℃, at 85%RH, 30 days @1550nm）	≤0.05 dB / km
Water Immersion（23±2℃, 30 days@1550nm）	≤0.05 dB / km		

All Dielectric Self Supported Aerial Cable ADSS

Structure:



Description:

ADSS cable is loose tube stranded，fibers，250 um，are positioned into a loose tube made of high modulus plastics，The tubes are filled with a water-resistant filling compound， The tubes(and fillers) are stranded around a FRP(Fiber Reinforced Plastic) as a non-metallic central strength member into a compact and circular cable core，After the cable core is filled with filling compound，After stranded layer of aramid yarns are applied over the cable core as strength member，The cable is completed with PE or AT(anti-tracking) outer sheath 。

Characteristics:

- Can be installed without shutting off the power
- Excekkent AT performance . The maximum inductive at the operating point of AT sheath can reach 25KV
- Light weight and small diameter reducing the load caused by ice and wind and the load on towers and backprops
- Large span lengths and the largest span is over 1000m
- Good performance of tensile strength and temperature
- The design life span is over 30 years
- Application:self-supporting

Standards:

ADSS Cable complies with standard IEEE 1222-2004 as well as IEC60794-1

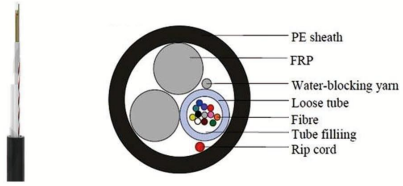
Optical Characteristics						
		G.652.D	G.657A1	G.657A2	50/125um	62.5/125um
Attenuation	@850um				≤3.0dB/Km	≤3.0dB/Km
	@1300um				≤1.0dB/Km	≤1.0dB/Km
	@1310um	≤0.34dB/Km	≤0.35dB/Km	≤0.35dB/Km		
	@1383um	≤0.34dB/Km	≤0.35dB/Km	≤0.35dB/Km		
	@1550um	≤0.20dB/Km	≤0.21dB/Km	≤0.21dB/Km		
Bandwidth (Class A)	@850um				≥500MHz·Km	≥200MHz·Km
	@1300um				≥1000MHz·Km	≥600MHz·Km
Cable cut-off wavelength λcc		≤1260nm	≤1260nm	≤1260nm		

Technical Parameters						
Fiber Count	Span(m)	Cable Diameter(mm)	Cable Weight(Kg/Km)	Tensile Strength(MAT)(N)	Crush Resistance Long/Short term(N/100mm)	Benging Radius Static/Dynamic(mm)
6	100	8.9	59	1300	600/1000	10D/20D
12	100	8.9	59	1300	600/1000	10D/20D
24	100	8.9	59	1300	600/1000	10D/20D
48	100	9.7	67	1500	600/1000	10D/20D
72	100	9.7	63	1600	600/1000	10D/20D
96	100	11.6	98	2100	600/1000	10D/20D
144	100	14.4	151	3000	600/1000	10D/20D

Storage/Operating Temperature: -40℃ to +70℃

Aerial Self-Supported Outdoor Cable
GYFY (ASU)

Structure:



Description:

GYFY(ASU) cable is loose tubestranded，fibers，250 um，are positioned into a loose tibe made of high modulus plastics，The tubes are filled with a water-resistant filling compound，The tubes and FRP (Fiber Reinforced Plastic) are stranded into a compact and circular cable core， The cable is completed with PE outer sheath 。

Characteristics:

- **Cable is a model of Mini ADSS**
- **Can be installed without shutting off the power**
- **Light weight and small diameter reducing the load caused**
- **Good performance of tensile strength and temperature**
- **Simple structure, low cost, easy to lay**
- **The design life span is over 30 years**
- **Application:self-supporting**

Standards:

ADSS Cable complies with standard IEEE 1222-2004 as well as IEC60794-1

Optical Characteristics						
		G.652.D	G.657A1	G.657A2	50/125um	62.5/125um
Attenuation	@850um				≤3.0dB/Km	≤3.0dB/Km
	@1300um				≤1.0dB/Km	≤1.0dB/Km
	@1310um	≤0.34dB/Km	≤0.35dB/Km	≤0.35dB/Km		
	@1383um	≤0.34dB/Km	≤0.35dB/Km	≤0.35dB/Km		
	@1550um	≤0.20dB/Km	≤0.21dB/Km	≤0.21dB/Km		
Bandwidth (Class A)	@850um				≥500MHz·Km	≥200MHz·Km
	@1300um				≥1000MHz·Km	≥600MHz·Km
Cable cut-off		≤1260nm	≤1260nm	≤1260nm		

Technical Parameters						
Fiber Count	Span(m)	Cable Diameter(mm)	Cable Weight(Kg/Km)	Tensile Strength(MAT)(N)	Crush Resistance Long/Short term(N/100mm)	Benging Radius Static/Dynamic(mm)
12	80	6.4	35	1200	1000/2200	10D/20D
12	120	6.8	38	1500	1000/2200	10D/20D
24	100	7.0	45	1500	1000/2200	10D/20D

Storage/Operating Temperature: -40℃ to +70℃

Micro duct Cable with HDPE Sheath for Installation by Blowing
GCYFY

Structure:

Description:

GCYFY cable is loose tube stranded，fibers，250 um，are positioned into a loose tibe made of high modulus plastics，The tubes are filled with a water-resistant filling compound，The tubes(and fillers) are stranded around a FRP(Fiber Reinforced Plastic) as a non-metallic central strength member into a compact and circular cable core， Water blocking yarns are used in and over the cable core to prevent it from water ingress. HDPE is applied over the cable core as the outer sheath

Characteristics:

- **Small outside diameter, light weight, soft moderate, easy to bend, easy to operate**
- **Non - metal structure, anti - interference, non - conductive, corrosion - resistant**
- **Comprehensive water blocking structure, good waterproof and moisture-proof performance, suitable for pipeline use environment**
- **Low friction coefficient outer material, long air blowing distance**
- **Good mechanical and environmental properties to ensure the quality of construction and use**
- **Easy to use air blowing laying, improve the construction efficiency**
- **Suitable for backbone network, MAN, access network**
- **The design life span is over 25 years**

Standards:

ADSS Cable complies with standard IEEE 1222-2004 as well as IEC60794-5

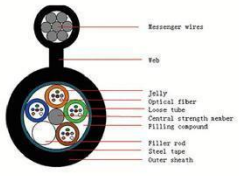
Optical Characteristics						
		G.652.D	G.657A1	G.657A2	50/125um	62.5/125um
Attenuation	@850um				≤3.0dB/Km	≤3.0dB/Km
	@1300um				≤1.0dB/Km	≤1.0dB/Km
	@1310um	≤0.34dB/Km	≤0.35dB/Km	≤0.35dB/Km		
	@1383um	≤0.34dB/Km	≤0.35dB/Km	≤0.35dB/Km		
	@1550um	≤0.20dB/Km	≤0.21dB/Km	≤0.21dB/Km		
Bandwidth (Class A)	@850um				≥500MHz·Km	≥200MHz·Km
	@1300um				≥1000MHz·Km	≥600MHz·Km
Cable cut-off		≤1260nm	≤1260nm	≤1260nm		

Technical Parameters					
Fiber Count	Cable Diameter(mm)	Cable	MAX. Tensile	Crush Resistance	Benging Radius
12	5.6	26	600	150/500	20D/40D
24	5.6	26	600	150/500	20D/40D
48	5.6	26	600	150/500	20D/40D
72	5.6	26	600	150/500	20D/40D
96	6.4	30	800	150/500	20D/40D
144	8.2	47	800	150/500	20D/40D
288	9.3	80	1000	150/500	20D/40D

Storage/Operating Temperature: -20℃ to +60℃

Figure 8 Self-Support Optical Fiber Cable
GYTC8S

Structure:



Description:

GYTC8S cable is loose tube stranded，fibers，250 um，are positioned into a loose tibe made of high modulus plastics，The tubes are filled with a water-resistant filling compound，The center of the cable core is a metal reinforced core. For some large-core optical cables, a layer of polyethylene (PE) needs to be extruded on the metal reinforced core. The loose tube (and the filling string) is twisted around the central reinforcement core to form a compact and round cable core,Afterthe gap in the cable core is filled with a water blocking filler，Double-sided plastic coated steel tape (PSP) is longitudinally wrapped ,It is then integrated into a figure-eight polythene sheath with the strand 。

Characteristics:

- **Optical cable and cable as a whole, can be a one-time overhead laying, saving construction costs and time**
- **Self-supporting structure has high tensile strength and is convenient for overhead laying**
- **Good mechanical and environmental properties**
- **The cable core prevents water comprehensively to ensure long-term stable use**
- **Steel tape armored, moisture-proof, rat-proof**
- **The design life span is over 30 years**
- **Application:self-supporting**

Standards:

ADSS Cable complies with standard IEEE 1222-2004 as well as IEC60794-1

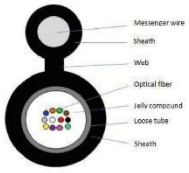
Optical Characteristics						
		G.652.D	G.657A1	G.657A2	50/125um	62.5/125um
Attenuation	@850um				≤3.0dB/Km	≤3.0dB/Km
	@1300um				≤1.0dB/Km	≤1.0dB/Km
	@1310um	≤0.34dB/Km	≤0.35dB/Km	≤0.35dB/Km		
	@1383um	≤0.34dB/Km	≤0.35dB/Km	≤0.35dB/Km		
	@1550um	≤0.20dB/Km	≤0.21dB/Km	≤0.21dB/Km		
Bandwidth (Class A)	@850um				≥500MHz·Km	≥200MHz·Km
	@1300um				≥1000MHz·Km	≥600MHz·Km
Cable cut-off		≤1260nm	≤1260nm	≤1260nm		

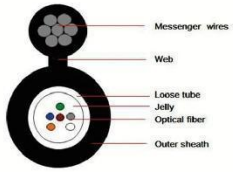
Technical Parameters					
Fiber Count	Cable Diameter(mm)	Cable Weight(Kg/Km)	Tensile	Crush Resistance Long/Short	Benging Radius
6	8.6*15.8	132	4000	1000/3000	10D/20D
12	8.6*15.8	132	4000	1000/3000	10D/20D
24	8.6*15.8	132	4000	1000/3000	10D/20D
48	9.2*16.4	142	4000	1000/3000	10D/20D
72	9.8*17.0	168	4000	1000/3000	10D/20D
96	10.8*18	181	4000	1000/3000	10D/20D
144	13.4*20.6	226	4000	1000/3000	10D/20D

Storage/Operating Temperature: -40℃ to +70℃

Figure 8 Selt-Support Optical Fiber Cable
GYXTC8Y

Structure:





Description:

GYXTC8Y cable is made of a single loose sleeve as the cable core, fiber，250um. It is placed in a loose sleeve made of high modulus plastic and filled with waterproof compound. The loose sleeve is placed in the center of the cable, and water blocking paste or winding water blocking yarn is filled around the loose sleeve, and then combined with the steel strand or steel wire to form a figure 8 polyethylene sheath 。

Characteristics:

- **Optical cable and cable as a whole, can be a one-time overhead laying, saving construction costs and time**
- **Self-supporting structure has high tensile strength and is convenient for overhead laying**
- **Small size, light weight, good softness, easy to lay**
- **Simple design, excellent transmission performance, cost-effective**
- **Good mechanical and environmental properties**
- **The cable core prevents water comprehensively to ensure long-term stable use**
- **The design life span is over 25 years**
- **Application:self-supporting**

Standards:

ADSS Cable complies with standard IEEE 1222-2004 as well as IEC60794-1

Optical Characteristics						
		G.652.D	G.657A1	G.657A2	50/125um	62.5/125um
Attenuation	@850um				≤3.0dB/Km	≤3.0dB/Km
	@1300um				≤1.0dB/Km	≤1.0dB/Km
	@1310um	≤0.34dB/Km	≤0.35dB/Km	≤0.35dB/Km		
	@1383um	≤0.34dB/Km	≤0.35dB/Km	≤0.35dB/Km		
	@1550um	≤0.20dB/Km	≤0.21dB/Km	≤0.21dB/Km		
Bandwidth (Class A)	@850um				≥500MHz·Km	≥200MHz·Km
	@1300um				≥1000MHz·Km	≥600MHz·Km
Cable cut-off		≤1260nm	≤1260nm	≤1260nm		

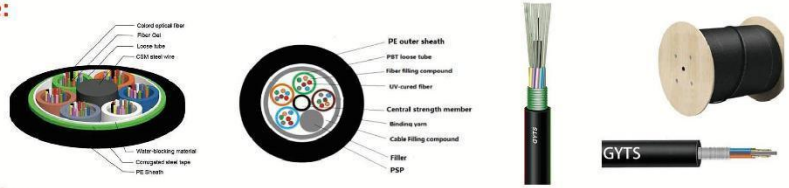
Technical Parameters					
Fiber Count	Cable Diameter(mm)	Cable Weight(Kg/Km)	Tensile	Crush Resistance Long/Short	Benging Radius
6	4.0*7.5	27	500	500/1000	10D/20D
12	4.0*7.5	27	500	500/1000	10D/20D
24	4.8*9.0	36	700	500/1000	10D/20D

Storage/Operating Temperature: -40℃ to +70℃

Loose Tube Stranded Metal reinforced Metal armored Optical Cable

GYTS

Structure:



Description:

GYTS is to put 250μm optical fiber into loose tube made of high modulus material, and the loose tube is filled with waterproof compound. The center of the cable core is a metal reinforced core. For some large-core optical cables, a layer of polyethylene (PE) needs to be extruded on the metal reinforced core. The loose tube (and the filling string) is twisted around the central reinforcement core to form a compact and round cable core, and the gap in the cable core is filled with a water blocking filler. Double-sided plastic coated steel tape (PSP) is longitudinally wrapped and extruded into a polyethylene sheath to form a cable 。

Characteristics:

- **Good mechanical and temperature performance**
- **High strength loose tube that is hydrolysis resistant**
- **Special tube filling compound ensure a critical protection of fiber**
- **Special designed compact structure is good at preventing loose tubes from shrinking**
- **Crush resistance and flexibility**
- **PE sheath protects cable from ultraviolet radiation**
- **Steel wire used as the central strength member**
- **PSP enhancing moisture-proof**
- **Application :duct/aerial/direct buride**

Standards:

ADSS Cable complies with standard IEEE 1222-2004 as well as IEC60794-1

Optical Characteristics						
		G.652.D	G.657A1	G.657A2	50/125um	62.5/125um
Attenuation	@850um				≤3.0dB/Km	≤3.0dB/Km
	@1300um				≤1.0dB/Km	≤1.0dB/Km
	@1310um	≤0.34dB/Km	≤0.35dB/Km	≤0.35dB/Km		
	@1383um	≤0.34dB/Km	≤0.35dB/Km	≤0.35dB/Km		
	@1550um	≤0.20dB/Km	≤0.21dB/Km	≤0.21dB/Km		
Bandwidth (Class A)	@850um				≥500MHz·Km	≥200MHz·Km
	@1300um				≥1000MHz·Km	≥600MHz·Km
Cable cut-off		≤1260nm	≤1260nm	≤1260nm		

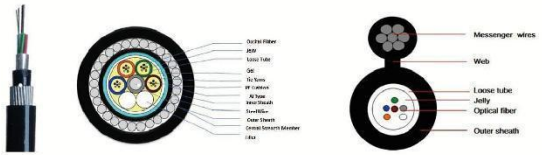
Technical Parameters					
Fiber Count	Cable Diameter(mm)	Cable Weight(Kg/Km)	Tensile Strength(MAT)(N)	Crush Resistance	Benging Radius
12	9.4	88	1500	300/1000	10D/20D
24	9.4	87	1500	300/1000	10D/20D
48	9.6	89	1500	300/1000	10D/20D
72	10.2	99	1500	300/1000	10D/20D
96	11.4	132	1500	300/1000	10D/20D
144	14.3	184	1500	300/1000	10D/20D

Storage/Operating Temperature: -40℃ to +70℃

Stranded Loose Tube Single-steel-wire armored Optical Cable

GYTA33

Structure:



Description:

GYTA33 is to put 250μm optical fiber into loose tube made of high modulus material, and the loose tube is filled with waterproof compound. The center of the cable core is a metal reinforced core. For some large-core optical cables, a layer of polyethylene (PE) needs to be extruded on the metal reinforced core. The loose tube (and the filling string) is twisted around the central reinforcement core to form a compact and round cable core, An Aluminum Polyethylene Laminate(APL) is applied around the cable core,Which is filled with the filling compound to protect it from water ingress,Then the cable core is covered with a thin PE inner sherth,Afer the single-steel wire armored,the cable is finally completed with an outer sheath 。

Characteristics:

- **Good mechanical and temperature performance**
- **Single-steel wire ensures good performance of tensile strength**
- **High strength loose tube that is hydrolysis resistant**
- **Special tube filling compound ensure a critical protection of fiber**
- **Special designed compact structure is good at preventing loose tubes from shrinking**
- **Crush resistance and flexibility**
- **PE sheath protects cable from ultraviolet radiation**
- **Steel wire used as the central strength member**
- **Application :direct buride/Climb/Underwater**

Standards:

ADSS Cable complies with standard IEEE 1222-2004 as well as IEC60794-1

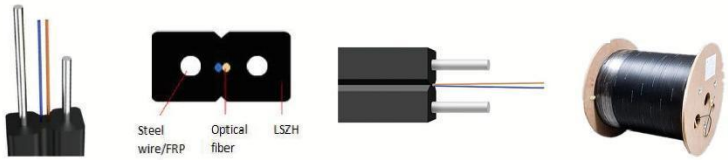
Optical Characteristics						
		G.652.D	G.657A1	G.657A2	50/125um	62.5/125um
Attenuation	@850um				≤3.0dB/Km	≤3.0dB/Km
	@1300um				≤1.0dB/Km	≤1.0dB/Km
	@1310um	≤0.34dB/Km	≤0.35dB/Km	≤0.35dB/Km		
	@1383um	≤0.34dB/Km	≤0.35dB/Km	≤0.35dB/Km		
	@1550um	≤0.20dB/Km	≤0.21dB/Km	≤0.21dB/Km		
Bandwidth (Class A)	@850um				≥500MHz·Km	≥200MHz·Km
	@1300um				≥1000MHz·Km	≥600MHz·Km
Cable cut-off		≤1260nm	≤1260nm	≤1260nm		

Technical Parameters					
Fiber Count	Cable Diameter(mm)	Cable Weight(Kg/Km)	Tensile Strength(MAT)(N)	Crush Resistance	Benging Radius
12	13.3	279	10000	3000/5000	12.5D/25D
24	13.3	278	10000	3000/5000	12.5D/25D
48	13.8	300	10000	3000/5000	12.5D/25D
72	15.0	385	10000	3000/5000	12.5D/25D
96	16.7	448	10000	3000/5000	12.5D/25D
144	19.5	556	10000	3000/5000	12.5D/25D

Storage/Operating Temperature: -40℃ to +70℃

Bow-type Drop Indoor Cable For Access Network
GJXH (GJXFH)

Structure:



Description:

The structure of the GJXH optical cable is a single-mode optical fiber at the center, two parallel metal reinforcing elements are placed on both sides, and a black low-smoke halogen-free flame-retardant polyolefin sheath is extruded into the cable

Characteristics:

- **Bend-insensitive fiber is used, which has excellent bending resistance**
- **The optical cable is easy to peel off, fix, and facilitate connection, simplifying installation and maintenance**
- **The optical cable has a small overall diameter, light weight, low cost, and low construction cost**
- **Using cold junction technology, high speed, flexible and fast**
- **The optical cable has a high crush resistance and tensile strength**
- **Using low-smoke halogen-free flame-retardant materials, to meet the requirements of fiber optic cables for indoor use**
- **The service life of the product is more than 15 years**

Standards:

ADSS Cable complies with standard IEEE 1222-2004 as well as IEC60794-2

Optical Characteristics						
		G.652.D	G.657A1	G.657A2	50/125um	62.5/125um
Attenuation	@850um				≤3.0dB/Km	≤3.0dB/Km
	@1300um				≤1.0dB/Km	≤1.0dB/Km
	@1310um	≤0.34dB/Km	≤0.35dB/Km	≤0.35dB/Km		
	@1383um	≤0.34dB/Km	≤0.35dB/Km	≤0.35dB/Km		
	@1550um	≤0.20dB/Km	≤0.21dB/Km	≤0.21dB/Km		
Bandwidth (Class A)	@850um				≥500MHz·Km	≥200MHz·Km
	@1300um				≥1000MHz·Km	≥600MHz·Km
Cable cut-off		≤1260nm	≤1260nm	≤1260nm		

Technical Parameters						
Fiber Count	Cable Type	Cable	Cable Weight(Kg/Km)	Tensile Strength	Crush Resistance Long/Short	Benging Radius
1	GJXH	2.0*3.0	9.5	100/200	1000/2200	20D/40D
2	GJXH	2.0*3.0	9.5	100/200	1000/2200	20D/40D
4	GJXH	2.0*3.0	9.5	100/200	1000/2200	20D/40D
1	GJXFH	2.0*3.0	8.5	40/80	1000/2200	20D/40D
2	GJXFH	2.0*3.0	8.5	40/80	1000/2200	20D/40D
4	GJXFH	2.0*3.0	8.5	40/80	1000/2200	20D/40D

Storage/Operating Temperature: -20℃ to +70℃

Bow-type Drop Outdoor/Indoor Cable For Access Network
GJYXCH (GJYXFCH)

Structure:

Description:

The structure of GJYXCH optical cable is a single-mode fiber at the center, two parallel metal reinforcements are placed on both sides, a steel wire reinforcement is added on the outside, and a black low-smoke halogen-free flame-retardant polyolefin sheath is extruded into the cable

Characteristics:

- **Bend-insensitive fiber is used, which has excellent bending resistance**
- **The optical cable is easy to peel off, fix, and facilitate connection, simplifying installation and maintenance**
- **The optical cable has a small overall diameter, light weight, low cost, and low construction cost**
- **Using cold junction technology, high speed, flexible and fast**
- **The optical cable has a high crush resistance and tensile strength; and the high-carbon steel wire has superior tensile performance, which can meet the laying of spans below 50 meters**
- **Using low-smoke halogen-free flame-retardant materials, to meet the requirements of fiber optic cables for indoor use**
- **The service life of the product is more than 15 years**

Standards:

ADSS Cable complies with standard IEEE 1222-2004 as well as IEC60794-2

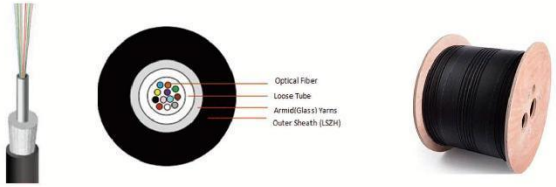
Optical Characteristics						
		G.652.D	G.657A1	G.657A2	50/125um	62.5/125um
Attenuation	@850um				≤3.0dB/Km	≤3.0dB/Km
	@1300um				≤1.0dB/Km	≤1.0dB/Km
	@1310um	≤0.34dB/Km	≤0.35dB/Km	≤0.35dB/Km		
	@1383um	≤0.34dB/Km	≤0.35dB/Km	≤0.35dB/Km		
	@1550um	≤0.20dB/Km	≤0.21dB/Km	≤0.21dB/Km		
Bandwidth (Class A)	@850um				≥500MHz·Km	≥200MHz·Km
	@1300um				≥1000MHz·Km	≥600MHz·Km
Cable cut-off		≤1260nm	≤1260nm	≤1260nm		

Technical Parameters						
Fiber Count	Cable Type	Cable	Cable Weight(Kg/Km)	Tensile Strength	Crush Resistance Long/Short	Benging Radius
1	GJYXCH	2.0*5.0	20	300/600	1000/2200	20D/40D
2	GJYXCH	2.0*5.0	20	300/600	1000/2200	20D/40D
4	GJYXCH	2.0*5.0	20	300/600	1000/2200	20D/40D
1	GJYXFCH	2.0*5.0	19	300/600	1000/2200	20D/40D
2	GJYXFCH	2.0*5.0	19	300/600	1000/2200	20D/40D
4	GJYXFCH	2.0*5.0	19	300/600	1000/2200	20D/40D

Storage/Operating Temperature: -20℃ to +70℃

All-dielectric armored single sleeve indoor/outdoor cable GJYA(G)XZY

Structure:



Description:

GJYA(G)XZY cable is loose tube stranded，fibers，250 um，are positioned into a loose tibe made of high modulus plastics，The tubes are filled with a water-resistant filling compound，Optical fibres are housed in loose tubes that are made of high-modulus plastic and filled with waterproof compounds，Aramid(Fiberglass) yarn wrap up the central tube as strength member，The cable is completed with Antiflaming PE outer sheath。

Characteristics:

- **Can be installed without shutting off the power**
- **Light weight, small diameter, high softness, easy to lay**
- **Excellent flame retardant property, suitable for different places**
- **Type G specification has good anti-rodent gnawing properties**
- **Good tensile strength and temperature resistance**
- **The design life span is over 25 years**
- **Application:overhead, pipelines, buildings**

Standards:

ADSS Cable complies with standard IEEE 1222-2004 as well as IEC60794-1

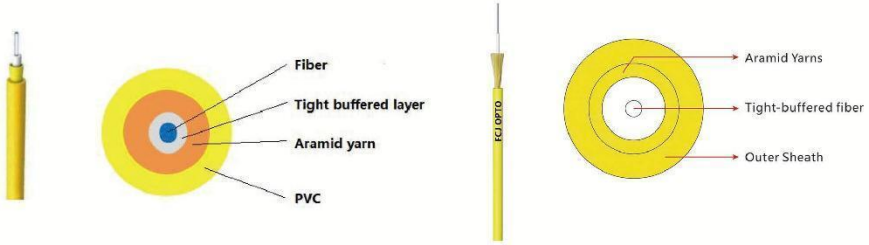
Optical Characteristics						
		G.652.D	G.657A1	G.657A2	50/125um	62.5/125um
Attenuation	@850um				≤3.0dB/Km	≤3.0dB/Km
	@1300um				≤1.0dB/Km	≤1.0dB/Km
	@1310um	≤0.34dB/Km	≤0.35dB/Km	≤0.35dB/Km		
	@1383um	≤0.34dB/Km	≤0.35dB/Km	≤0.35dB/Km		
	@1550um	≤0.20dB/Km	≤0.21dB/Km	≤0.21dB/Km		
Bandwidth (Class A)	@850um				≥500MHz·Km	≥200MHz·Km
	@1300um				≥1000MHz·Km	≥600MHz·Km
Cable cut-off wavelength		≤1260nm	≤1260nm	≤1260nm		

Technical Parameters						
Cable Type	Fiber	Cable Diameter(mm)	Cable Weight(Kg/Km)	Tensile Strength(MAT)(N)	Crush Resistance Long/Short	Benging Radius Static/Dynamic(mm)
GJYAXZY	6	5.6	32	1500	150/500	10D/20D
	12	5.6	32	1500	150/500	10D/20D
	24	6.0	36	1500	150/500	10D/20D
GJYGXZY	6	6.1	47	2700	150/500	10D/20D
	12	6.1	47	2700	150/500	10D/20D
	24	6.5	51	2700	150/500	10D/20D

Storage/Operating Temperature: -40℃ to +70℃

Singl Fiber Patch Cord Cable (Simplex) GJFJV(SXC)

Structure:



Description:

GJFJV(SXC) use single Φ900μm or Φ600μm tight-buffered optical fiber as the optical communication medium, the tight-buffer fiber wrapped with a layer of aramid yarns as strength menber units，and the cable is completed with a PVC or LSZH(Low smoke ,zero halogen, Flame-retardant) jacker.

Characteristics:

- **Tight buffer fibre easy of stripping**
- **Tight buffer fibre have excellent flame-retardant performance**
- **Aramid yarn as strength menber make cable have excellent tensile strength**
- **The outer jacket material have many adcantages such as anti-corrosion, anti-water, anti-ultraviolet radiation, flame-retardant and harmless to encironment etc.**

Standards:

ADSS Cable complies with standard IEEE 1222-2004 as well as IEC60794-2

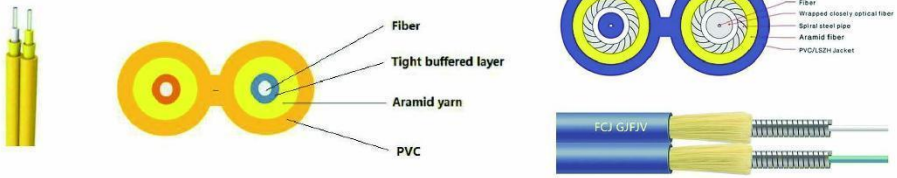
Optical Characteristics						
		G.652.D	G.657A1	G.657A2	50/125um	62.5/125um
Attenuation	@850um				≤3.0dB/Km	≤3.0dB/Km
	@1300um				≤1.0dB/Km	≤1.0dB/Km
	@1310um	≤0.34dB/Km	≤0.35dB/Km	≤0.35dB/Km		
	@1383um	≤0.34dB/Km	≤0.35dB/Km	≤0.35dB/Km		
	@1550um	≤0.20dB/Km	≤0.21dB/Km	≤0.21dB/Km		
Bandwidth (Class A)	@850um				≥500MHz·Km	≥200MHz·Km
	@1300um				≥1000MHz·Km	≥600MHz·Km
Cable cut-off		≤1260nm	≤1260nm	≤1260nm		

Technical Parameters						
Cable Type	Cable Diameter(mm)	Cable Weight(Kg/Km)		Tensile Strength(MAT)(N)	Crush Resistance Long/Short	Benging Radius Static/Dynamic(mm)
		Pvc jacket	LSZH jacket			
GJFJV(SXC)-1.6	1.6±0.2	2.6	2.8	80	100/500	30D/60D
GJFJV(SXC)-2.0	2.0±0.2	3.7	4.7	100	300/1000	30D/60D
GJFJV(SXC)-3.0	3.0±0.2	6.3	7.8	100	300/1000	30D/60D

Storage/Operating Temperature: -20℃ to +60℃

Duplex Zip-cord Patch Cable
GJFJV(ZCC)

Structure:



Description:

GJFJV(ZCC) use Φ900μm or Φ600μm tight-buffered optical fiber as the optical communication medium, the tight-buffer fiber wrapped with a layer of aramid yarns as strength menber units，and the cable is completed with a figure 8 PVC or LSZH(Low smoke ,zero halogen, Flame-retardant) jacker.

Characteristics:

- Tight buffer fibre easy of stripping
- Tight buffer fibre have excellent flame-retardant performance
- Aramid yarn as strength menber make cable have excellent tensile strength
- Figure 8 structure jacket faclitate embranchment
- The outer jacket material have many adcantages such as anti-corrosion, anti-water, anti-ultraviolet radiation, flame-retardant and harmless to encironment etc.

Standards:

ADSS Cable complies with standard IEEE 1222-2004 as well as IEC60794-2

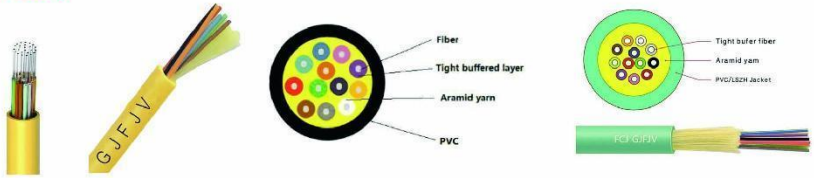
Optical Characteristics						
		G.652.D	G.657A1	G.657A2	50/125um	62.5/125um
Attenuation	@850um				≤3.0dB/Km	≤3.0dB/Km
	@1300um				≤1.0dB/Km	≤1.0dB/Km
	@1310um	≤0.34dB/Km	≤0.35dB/Km	≤0.35dB/Km		
	@1383um	≤0.34dB/Km	≤0.35dB/Km	≤0.35dB/Km		
	@1550um	≤0.20dB/Km	≤0.21dB/Km	≤0.21dB/Km		
Bandwidth (Class A)	@850um				≥500MHz·Km	≥200MHz·Km
	@1300um				≥1000MHz·Km	≥600MHz·Km
Cable cut-off		≤1260nm	≤1260nm	≤1260nm		

Technical Parameters						
Cable Type	Cable Diameter(mm)	Cable Weight(Kg/Km)		Tensile	Crush Resistance	Benging Radius
		Pvc jacket	LSZH jacket	Strength(MAT)(N	Long/Short	Static/Dynamic(mm)
GJFJV(ZCC)-1.6	(3.4±0.3)×(1.6±0.3)	4.8	5.3	80	100/500	30D/60D
GJFJV(ZCC)-1.9	(4.0±0.3)×(1.9±0.3)	8.0	8.7	200	100/500	30D/60D
GJFJV(ZCC)-2.8	(5.8±0.3)×(2.8±0.3)	11.6	14.8	200	100/500	30D/60D

Storage/Operating Temperature: -20℃ to +60℃

Distribution optical fiber cable
GJFJV

Structure:



Description:

GJFJV use Φ900μm or Φ600μm tight-buffered optical fiber as the optical transmission medium, which is covered with a layer of aramid as the Force Strengthening unit. The outermost sheath layer is extruded with a layer of polyvinyl chloride (PVC) or low-smoke halogen-free material (LSZH-Low smoke, halogen-free, flame retardant)。

Characteristics:

- Many fiber cores, small bending radius, small volume and light weight
- Good flexibility, especially suitable for assembly into jumpers and pigtails
- The outer protective material has the advantage of corrosion-resistant, waterproof, UV-resistant, flame-retardant, and Environmental protection
- Adopt tight sleeve fiber, easy to strip and use
- Tight buffered fiber has good flame retardant performance
- Aramid reinforced components make the optical cable have excellent tensile performance
- The service life of the product is more than 15 years

Standards:

ADSS Cable complies with standard IEEE 1222-2004 as well as IEC60794-2

Optical Characteristics						
		G.652.D	G.657A1	G.657A2	50/125um	62.5/125um
Attenuation	@850um				≤3.0dB/Km	≤3.0dB/Km
	@1300um				≤1.0dB/Km	≤1.0dB/Km
	@1310um	≤0.34dB/Km	≤0.35dB/Km	≤0.35dB/Km		
	@1383um	≤0.34dB/Km	≤0.35dB/Km	≤0.35dB/Km		
	@1550um	≤0.20dB/Km	≤0.21dB/Km	≤0.21dB/Km		
Bandwidth (Class A)	@850um				≥500MHz·Km	≥200MHz·Km
	@1300um				≥1000MHz·Km	≥600MHz·Km
Cable cut-off		≤1260nm	≤1260nm	≤1260nm		

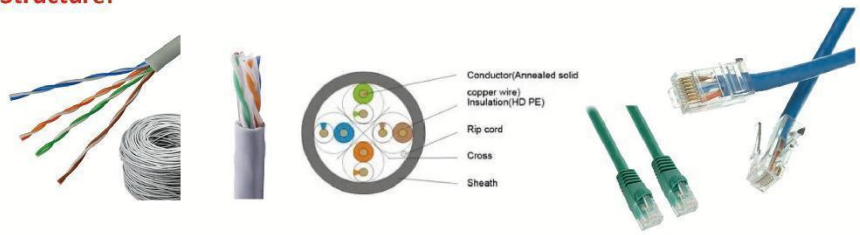
Technical Parameters						
Cable Type	Fiber	Cable Diameter(mm)	Cable Weight(Kg/Km)	Tensile	Crush Resistance Long/Short	Benging Radius
GJFJV	2	4.1±0.25	12.4	660	300/1000	10D/20D
GJFJV	6	5.1±0.25	20	660	300/1000	10D/20D
GJFJV	12	6.2±0.25	31.5	660	300/1000	10D/20D
GJFJV	24	8.0±0.25	42.5	660	300/1000	10D/20D
GJFJH	2	3.2±0.25	10	660	300/1000	10D/20D
GJFJH	6	5.1±0.25	22.5	660	300/1000	10D/20D
GJFJH	12	6.2±0.25	38	660	300/1000	10D/20D
GJFJH	24	8.0±0.25	58.5	660	300/1000	10D/20D

Storage/Operating Temperature: -20℃ to +60℃

Data cable for network wiring and weak current transmission

CAT5E

Structure:



Feature:

Compliance with ANSI/TIA-568-C.2. 5e standards and ISO/IEC11801 classD level.100Base-TX,100Base-T，100VGAnyLAN，1000Base-T(GigabitEthernet)，1000Base-TX and designed for ATM。

Characteristics:

- **High quality non - oxygen copper conductor, low resistance, low attenuation, long transmission distance**
- **Optimized coupling pitch, minimize signal interference, stable transmission**
- **High quality ring protective sleeve, protect the internal cable from damage, safe transmission**
- **Meet a number of standard requirements, meet different use environment**

Standards:

CAT6 Cable complies UL444、UL1581、UL1666、IEC60332-1、IEC60332-3-24、EN50399、ISO/IEC11801、ANSI/TIA-568-C.2

Cable Construction							
Construct	Nominal	Nominal	NO. Of	Shielding	Nominal	Type of	Frequency
UTP	24AWG BC	0.90±0.03mm	4	-	5.1±0.4mm	Pvc/pe/lszh	Up to 100MHz
FTP	24AWG BC	1.00±0.03mm	4	AL-FOIL	6.2±0.4mm	Pvc/pe/lszh	Up to 100MHz
SFTP	24AWG BC	1.00±0.03mm	4	AL-FOIL+BRAIDING	6.2±0.5mm	Pvc/pe/lszh	Up to 100MHz
OUTDOOR	24AWG BC	0.90±0.03mm	4	-	6.0±0.5mm	Pvc/pe	Up to 100MHz

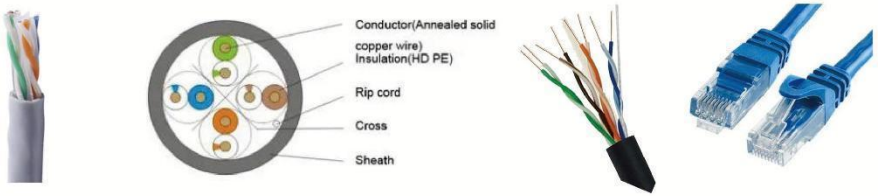
Electrical Characteristics										
Frequency(MHz)	1	4	8	10	16	20	25	31.25	62.5	100
Impedance(ohm)	100±15	100±15	100±15	100±15	100±15	100±15	100±15	100±15	100±15	100±15
RL(dB)	20.0	23.0	24.5	25.0	25.0	25.0	24.3	23.6	21.5	20.1
Attenuation(dB/10	2.0	4.1	5.8	6.5	8.2	9.3	10.4	11.7	17.0	22.0
Next Worst Pair(dB)	65.3	56.3	51.8	50.3	47.3	45.8	44.3	42.9	38.4	35.3
Next	62.3	53.3	48.8	47.3	44.3	42.8	41.3	39.9	35.4	32.3
ELFEXT	63.8	51.7	45.7	43.8	39.7	37.8	35.8	33.9	27.8	23.8
ELFEXT	60.8	48.8	42.7	40.8	36.7	34.8	32.8	30.9	24.8	20.8

Storage/Operating Temperature: -40℃ to +80℃

Data cable for network wiring and weak current transmission

CAT6

Structure:



Feature:

Compliance with ANSI/TIA-568-C. 26-based standards and ISO/IEC11801 class E level.100Base-T,100VG-AnyLAN,1000Base-T(GigabitEthernet),1000Base-TX,ATM and designed for noisy environments

Characteristics:

- **High quality non - oxygen copper conductor, low resistance, low attenuation, long transmission distance**
- **Optimized coupling pitch, minimize signal interference, stable transmission**
- **High quality ring protective sleeve, protect the internal cable from damage, safe transmission**
- **Meet a number of standard requirements, meet different use environment**

Standards:

CAT6 Cable complies UL444、UL1581、UL1666、IEC60332-1、IEC60332-3-24、EN50399、ISO/IEC11801、ANSI/TIA-568-C.2

Cable Construction							
Constructi	Nominal	Nominal	NO. Of	Shielding	Nominal	Type of jacket	Frequency
UTP	23AWG BC	1.02±0.03mm	4	-	6.3±0.4mm	Pvc/pe/lszh	Up to 250MHz
FTP	23AWG BC	1.02±0.03mm	4	AL-FOIL	7.4±0.4mm	Pvc/pe/lszh	Up to 250MHz
SFTP	23AWG BC	1.02±0.03mm	4	AL-FOIL+BRAIDING	7.8±0.4mm	Pvc/pe/lszh	Up to 250MHz
OUTDOOR	23AWG BC	1.02±0.03mm	4	-	6.8±0.4mm	Pvc/pe	Up to 250MHz

Electrical Characteristics												
Frequency(MHz)	1	4	8	10	16	20	25	31.25	62.5	100	200	250
Impedance(ohm)	100±15	100±15	100±15	100±15	100±15	100±15	100±15	100±15	100±15	100±15	100±22	100±
RL(dB)	20.0	23.0	24.5	25.0	25.0	25.0	24.3	23.6	21.5	20.1	18	17.3
Attenuation(dB/100m	2.0	3.8	5.3	6	6	7.6	9.5	10.7	15.4	15.4	29	32.8
Next Worst Pair(dB)	74.3	65.3	60.8	59.3	59.3	56.2	53.3	51.9	47.4	44.3	39.8	38.3
Next Power(Sum/dB)	72.3	63.3	58.8	57.3	57.3	54.2	51.3	49.9	45.4	42.3	37.8	36.3
ELFEXT WorstPair(dB)	67.8	55.8	49.7	47.8	47.8	43.7	39.8	37.9	31.9	27.8	21.8	19.8
ELFEXT	64.8	52.8	46.7	44.8	44.8	40.7	36.8	34.9	28.9	24.8	18.8	16.8

Storage/Operating Temperature: -40℃ to +80℃