



SINOCOMMS

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**MEET TOMORROW'S
DIGITAL PIONEERS, TODAY.**



SINOCOMMS

CREATE TECHNOLOGIES FOR
THE INTERCONNECTED WORLD.



About Us

Sinocomms is a leading global provider of optical fiber cable systems and data center connectivity solutions.

Since 1991, we have been dedicated to manufacturing reliable and cost-effective fiber optic cables and components.

Sinocomms has approximately 2000 professional employees with R&D, manufacturing, marketing, and logistics.

We provide a vast array of fiber optic products and solutions to the data storage, telecommunications, military, broadcast and networking industries.

Sinocomms' facilities are all ISO certified for both ISO 14001 environmental management and ISO 9001 quality management systems.

As a global leader and trusted supplier in optical communications, our knowledge becomes part of your expertise.

Today, fiber optics are our core business and account for more than 90 percent of its annual revenue. Looking forward, we plan to leverage our position with expanded and further diversified product lines, increased market visibility with additional internal resources, and an extended customer base through strategic industry alliances.

We support all aspects of aftermarket sales and services to ensure your customer's total satisfaction.



Our Facilities



"Create Value for Customers" has always been embedded in our organizational DNA, and we strive to provide a portfolio of optical fiber products and solutions at competitive prices and quick delivery.

We continuously work hard to improve our products and services so that we can keep our customers satisfied. We have a series of testing equipment to ensure the quality meet or exceed our customers' requirements.

That's how we have won great reputation and established strong relations with our customers and partners.

Sinocomms is always focused on creating value for each and every person involved with what we do. From customers to suppliers, co-workers to families, and everyone in between, we strive to make sure we make a positive impact for everyone.



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OPTICAL FIBERS



An optical fiber is a flexible, transparent fiber made by drawing glass (silica) or plastic to a diameter slightly thicker than that of a human hair. Optical fibers are used most often as a means to transmit light between the two ends of the fiber and find wide usage in fiber-optic communications, where they permit transmission over longer distances and at higher bandwidths (data rates) than electrical cables. Fibers are used instead of metal wires because signals travel along them with less loss, in addition, fibers are immune to electromagnetic interference, a problem from which metal wires

suffer excessively. Fibers are also used for illumination and imaging, and are often wrapped in bundles so they may be used to carry light into, or images out of confined spaces, as in the case of a fiberscope. Specially designed fibers are also used for a variety of other applications, some of them being fiber optic sensors and fiber lasers.

As the world provider in optical fiber, Sinocomms' optical fibers have driven the optical fiber connections around the world.

G.652.D



■ Geometry Property

Cladding Diameter	125±0.7μm	Coat/Clad Concentricity	≤12μm
Coating Diameter	245±5μm	Numerical Aperture	0.14@1310nm
Cladding Non-circularity	≤0.7%	Fiber Curl	≥4m radius of curvature
Core/Clad Concentricity	≤0.5μm	Proof Test	≥0.69GPa(100Kpsi)*

* Also supply 200Kpsi according to the customer requirement.

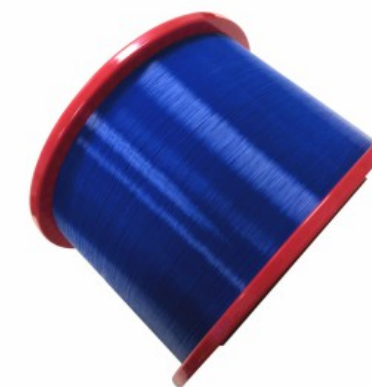
■ Transmission Property

Fiber Type	G.652.D		
Wavelength	1310nm	1383nm	1550nm
Mode Field Diameter	9.2±0.4μm	N/A	10.4±0.5μm
Attenuation	≤0.35dB/km	≤0.35dB/km	≤0.21dB/km
PMD(Maximum Individual Fiber)	≤0.1ps/√km		
Cable Cut-off Wavelength λ _{cc}	≤1260nm		
Effective Group Index of Refraction	1.4676	N/A	1.4682
Dispersion Coefficient	≤18.0ps/(nm·km) @1550nm		
Zero Dispersion Slope	0.091ps/(nm ² ·km)		
Zero Dispersion Wavelength λ ₀	1310nm≤λ ₀ ≤ 1324nm		

■ Macro Bend Loss Property

Mandrel Diameter	Number of Turns	Wavelength	Induced Attenuation
32mm	1	1550nm	≤0.03dB
50mm	100	1310nm	≤0.03dB
50mm	100	1550nm	≤0.03dB
60mm	100	1625nm	≤0.03dB

G.657.A1&G.657.A2



■ Geometry Property

Cladding Diameter	125±0.7μm	Coat/Clad Concentricity	≤12μm
Coating Diameter	245±5μm	Fiber Curl	≥4m radius of curvature
Cladding Non-circularity	≤1.0%	Proof Test	≥0.69GPa(100Kpsi)*
Core/Clad Concentricity	≤0.5μm		

* Also supply 200Kpsi according to the customer requirement.

■ Transmission Property

Fiber Type	G.657A1	G.657A1	G.657A1	G.657A1
Wavelength	1310nm	1550nm	1310nm	1550nm
Mode Field Diameter	9.0±0.4μm	10.1±0.5μm	8.8±0.4μm	9.8±0.5μm
Attenuation	≤0.36dB/km	≤0.22dB/km	≤0.36dB/km	≤0.22dB/km
PMD(Maximum Individual Fiber)	≤0.2ps/√km			
Cable Cut-off Wavelength λ _{cc}	≤1260nm			
Effective Group Index of Refraction	1.466	1.467	1.466	1.467
Dispersion Coefficient	≤18.0ps/(nm·km) @1550nm			
Zero Dispersion Slope	0.090ps/(nm ² ·km)		0.092ps/(nm ² ·km)	
Zero Dispersion Wavelength λ ₀	1302nm≤λ ₀ ≤ 1322nm		1300nm≤λ ₀ ≤ 1324nm	

■ Macro Bend Loss Property

Induced Attenuation @1550nm			
Fiber Symbol		G.657.A1	G.657.A2
Mandrel Diameter	Number of Turns		
15mm	1	N/A	≤0.5dB
20mm	1	≤0.1dB	≤0.1dB
30mm	10	≤0.1dB	≤0.03dB
50mm	100	≤0.05dB	N/A

OM1



■ Geometry Property

Cladding Diameter	62.5±2.5μm	Core/Clad Concentricity	≤1.5μm
Coating Diameter	125±1μm	Coat/Clad Concentricity	≤12μm
Cladding Non-circularity	245±7μm	Numerical Aperture	0.275±0.015
Core/Clad Concentricity	≤1%	Proof Test	≥0.69GPa(100Kpsi)*

* Also supply 200Kpsi according to the customer requirement.

■ Transmission Property

Fiber Type	OM1	
Wavelength	850nm	1300nm
Attenuation	≤2.9dB/km	≤0.7dB/km
Bandwidth OFL-BW*	≥200MHz·km	≥500MHz·km
Bandwidth RML-BW**	≥220MHz·km	N/A
Effective Group Index of Refraction	1.496	N/A
Zero Dispersion Slope	0.097ps/(nm ² ·km)	
Zero Dispersion Wavelength λ ₀	1332nm≤λ ₀ ≤ 1354nm	

* OFL-BW, Per TIA/EIA 455-204 and IEC 60793-1-41, for Legacy and LED-based systems (typically up to 100Mb/s)

** RML-BW, Per TIA/EIA 455-204 and IEC 60793-1-41, for Intermediate performance laser-based systems (typically up to 1Gb/s)

■ Macro Bend Loss Property

Mandrel Diameter	Number of Turns	Wavelength	Induced Attenuation
60mm	100	850nm	≤0.5dB
60mm	100	1300nm	≤0.5dB

■ Link Length

Fiber Symbol	OM1
Type acc.to ISO/IEC 11801	OM1
Fast Ethernet 100BASE-FX(1300nm)	2000m
Gigabit Ethernet 1000BASE-SX(850nm)	300m
Gigabit Ethernet 1000BASE-LX(1300nm)	550m

OM2&OM3&OM4



■ Geometry Property

Cladding Diameter	50±2.5μm	Core/Clad Concentricity	≤1.5μm
Coating Diameter	125±1μm	Coat/Clad Concentricity	≤12μm
Cladding Non-circularity	245±7μm	Numerical Aperture	0.200±0.015
Core/Clad Concentricity	≤1%	Proof Test	≥0.69GPa(100Kpsi)

* Also supply 200Kpsi according to the customer requirement.

■ Transmission Property

Fiber Type	OM2		OM3		OM4	
Wavelength	850nm	1300nm	850nm	1300nm	850nm	1300nm
Attenuation	≤3.0dB/km	≤1.0dB/km	≤2.7dB/km	≤0.7dB/km	≤2.7dB/km	≤0.7dB/km
Bandwidth OFL-BW*	≥500MHz·km	≥500MHz·km	≥1500MHz·km	≥500MHz·km	≥3500MHz·km	≥500MHz·km
Bandwidth RML-BW**	≥510MHz·km	N/A	≥2000MHz·km	N/A	≥4700MHz·km	N/A
Effective Group Index of Refraction	1.481	1.476	1.481	1.476	1.481	1.476
Zero Dispersion Slope	0.11ps/(nm ² ·km)					
Zero Dispersion Wavelength λ ₀	1295nm≤λ ₀ ≤ 1320nm					

* OFL-BW, Per TIA/EIA 455-204 and IEC 60793-1-41, for Legacy and LED-based systems (typically up to 100Mb/s)

** Ensured via minEMBc, Per TIA/EIA 455-220A and IEC 60793-1-49, for High performance laser-based systems (typically up to 10Gb/s)

■ Macro Bend Loss Property

Mandrel Diameter	Number of Turns	Wavelength	Induced Attenuation
60mm	100	850nm	≤0.5dB
60mm	100	1300nm	≤0.5dB

■ Link Length

Fiber Symbol	OM2	OM3	OM4
Type acc.to ISO/IEC 11801	OM2	OM3	OM4
Fast Ethernet 100BASE-FX(1300nm)	500m	1000m	1100m
Gigabit Ethernet 1000BASE-SX(850nm)	N/A	300m	550m
Gigabit Ethernet 1000BASE-LX(1300nm)	N/A	100m	150m

FIBER OPTIC CABLES



Sinocomms' extensive line of indoor and outdoor fiber optic cable products is offered in tight buffer and loose tube designs. Armored, burial, and ruggedized designs are suited to a host of industrial environments. For each product design, items for OM1, OM2, OM3, OM4, and OS2 (Single mode) items have been developed.

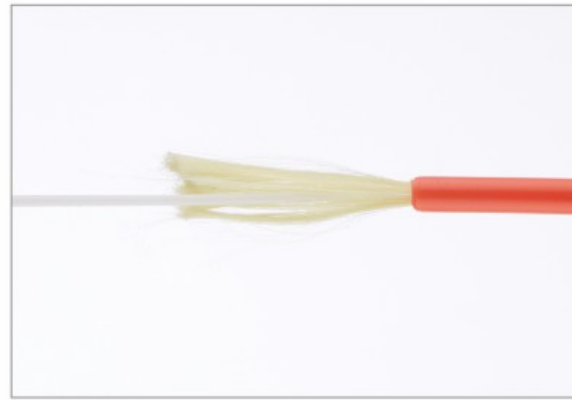
Sinocomms' fiber optic cable products are third-party tested by either ETL or UL and approved for use according to the National Electric Code. With the fast development of fiber optic communication technology and the trend of FTTx, indoor fiber optic cables are more and more extensively required to be installed between and inside buildings.

Compared with outdoor cables, indoor fiber optic cables experience less temperature and mechanical stress, but they have to be fire retardant, emit a

low level of smoke in case of burning. And indoor fiber cables allow a small bend radius to make them be amendable to vertical installation and handle easily. Most indoor fiber optic cables are tight buffer design, usually they consist of the following components inside the cable, the FRP which is the nonmetallic strengthen member, the tight buffer optical fiber, the Kevlar which is used to further strength the cable structure, making it resist high tension, and the cable outer jacket. This will help protect the environment and the health of the end users. Usually the single mode indoor fiber optic cables are installed between the buildings where the distance is more than 100 meters, while multi-mode indoor fiber optic cables are used shorter distance connections.

We supply both SMF and MMF indoor fiber cables with various structures for different applications.

Simplex Cable



■ Features

Buffer	0.9mm tight buffer or semi-tight buffer
	0.6mm tight buffer or semi-tight buffer for Mini cable
Buffer Color	White or other standard color
Strength Member	Aramid yarn
Cable Jacket	LSZH, PVC, TPU or other material on request
Jacket Color	Yellow for single mode
	Orange for multi mode OM1, OM2
	Aqua for OM3, OM4 other standard color on request

■ Temperature Range

Transport and Storage	-20°C~+70°C
Installation	-5°C~+50°C
Operation	-20°C~+70°C

■ Fire Performance for LSZH Jacket

Flame Retardancy	IEC 60332-1 and IEC 60332-3
Smoke Density	IEC 61034-1/-2
Halogen-free	IEC 60754-2

■ Mechanical Property

Min.Bend Radius	Static	30mm
	Dynamic	50mm

■ Fire Performance for PVC Jacket

Flame Retardancy	OFNR/OFNP
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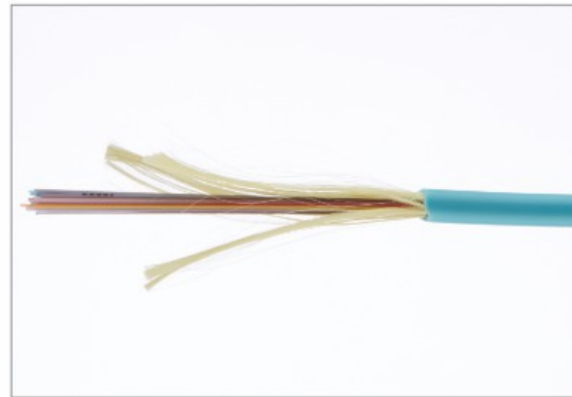
■ Specifications

Fiber Count	Cable Diameter (mm)	Buffer Diameter (mm)	Cable Weight (kg/km)	Tensile Strength Long/Short (N)	Crush Resistance Long/Short (N/10cm)
1	1.6	0.6	2.9	40/80	100/500
1	1.8	0.9	3.7	40/80	100/500
1	2.0	0.9	5	60/100	100/500
1	2.4	0.9	5.7	60/100	100/500
1	2.8	0.9	7.9	60/100	100/500
1	3.0	0.9	8.1	60/100	100/500

■ Transmission Performance

Fiber Symbol	G652D/G657A1/A2/B2/B3		G655C/D/E		OM1		OM2/OM2+		OM3/OM4	
Fiber Type	B1.3/B6a.1/2 B6b.2/3		B4		A1b		A1a/A1a.1		A1a.2/A1a.3	
Wavelength (nm)	1310	1550	1550	1625	850	1300	850	1300	850	1300
Attenuation (dB/km)	≤0.45	≤0.35	≤0.35	≤0.40	≤3.5	≤1.5	≤3.2	≤1.2	≤3.0	≤1.0

Duplex Round Mini Cable



Features

Buffer	0.9mm tight buffer or semi-tight buffer
	0.6mm tight buffer or semi-tight buffer for Mini cable
Buffer Color	White and blue or blue and orange
	Other standard color on request
Strength Member	Aramid yarn
Ripcord	Easily ripping the cable jacket
Cable Jacket	LSZH, PVC or other material on request
Jacket Color	Yellow for single mode
	Orange for multi mode OM1,OM2
	Aqua for OM3, OM4 other standard color on request

Temperature Range

Transport and Storage	-20°C~+70°C
Installation	-5°C~+50°C
Operation	-20°C~+70°C

Fire Performance for LSZH Jacket

Flame Retardancy	IEC 60332-1 and IEC 60332-3
Smoke Density	IEC 61034-1/-2
Halogen-free	IEC 60754-2

Mechanical Property

Min.Bend Radius	Static	30mm
	Dynamic	50mm

Fire Performance for PVC Jacket

Flame Retardancy	OFNR/OFNP
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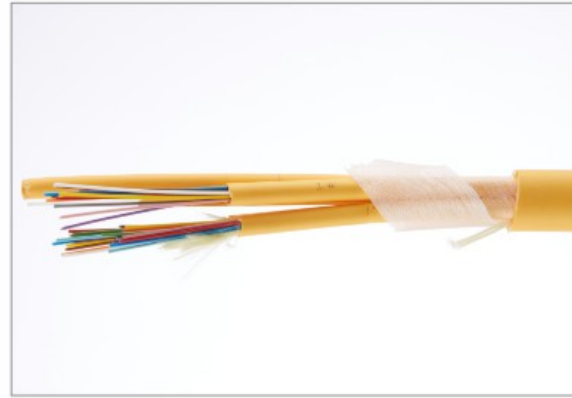
Specifications

Fiber Count	Cable Diameter (mm)	Buffer Diameter (mm)	Cable Weight (kg/km)	Tensile Strength Long/Short (N)	Crush Resistance Long/Short (N/10cm)
2	3.0	0.9	3.5	60/120	100/500

Transmission Performance

Fiber Symbol	G652D/G657A1/A2/B2/B3		G655C/D/E		OM1		OM2/OM2+		OM3/OM4	
Fiber Type	B1.3/B6a.1/2 B6b.2/3		B4		A1b		A1a/A1a.1		A1a.2/A1a.3	
Wavelength (nm)	1310	1550	1550	1625	850	1300	850	1300	850	1300
Attenuation (dB/km)	≤0.45	≤0.35	≤0.35	≤0.40	≤3.5	≤1.5	≤3.2	≤1.2	≤3.0	≤1.0

Multi Core Distribution Cable



■ Features

Buffer	0.9mm tight buffer or semi-tight buffer
Buffer Color	The standard color refer to color code
Strength Member	Aramid yarn
Ripcord	Easily ripping the cable jacket
Cable Jacket	LSZH, PVC or other material on request
Jacket Color	Yellow for single mode
	Orange for multi mode OM1,OM2
	Aqua for OM3, OM4 other standard color on request

■ Temperature Range

Transport and Storage	-20°C~+70°C
Installation	-5°C~+50°C
Operation	-20°C~+70°C

■ Fire Performance for LSZH Jacket

Flame Retardancy	IEC 60332-1 and IEC 60332-3
Smoke Density	IEC 61034-1/-2
Halogen-free	IEC 60754-2

■ Mechanical Property

Min.Bend Radius	Static	10×cable diameter
	Dynamic	20×cable diameter

■ Fire Performance for PVC Jacket

Flame Retardancy	OFNR/OFNP
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■ Specifications

Fiber Count	Cable Diameter (mm)	Buffer Diameter (mm)	Cable Weight (kg/km)	Tensile Strength Long/Short (N)	Crush Resistance Long/Short (N/10cm)
2	4.0	0.9	11.4	130/440	300/1000
4	4.8	0.9	17.3	130/440	300/1000
6	5.1	0.9	21.5	130/440	300/1000
8	5.6	0.9	27.3	130/440	300/1000
10	5.8	0.9	29.3	130/440	300/1000
12	6.2	0.9	35.2	130/440	300/1000
18	8.1	0.9	48.3	130/440	300/1000
24	8.1	0.9	56.2	130/440	300/1000

■ Transmission Performance

Fiber Symbol	G652D/G657A1/A2/B2/B3		G655C/D/E		OM1		OM2/OM2+		OM3/OM4	
Fiber Type	B1.3/B6a.1/2 B6b.2/3		B4		A1b		A1a/A1a.1		A1a.2/A1a.3	
Wavelength (nm)	1310	1550	1550	1625	850	1300	850	1300	850	1300
Attenuation (dB/km)	≤0.45	≤0.35	≤0.35	≤0.40	≤3.5	≤1.5	≤3.2	≤1.2	≤3.0	≤1.0

Large Core Distribution Cable



■ Features

Buffer	0.9mm tight buffer or semi-tight buffer
Buffer Color	The standard color refer to color code
Strength Member	Aramid yarn
Subunit	6 cores or 12 cores of 0.9mm buffers
Central Member	FRP as the dielectric member for central strength element with no bonding
Subunit Jacket	LSZH, PVC or other material on request
Ripcord	Easily ripping the cable jacket
Cable Jacket	LSZH, PVC or other material on request
Jacket Color	Yellow for single mode
	Orange for multi mode OM1, OM2
	Aqua for OM3, OM4 other standard color on request

■ Temperature Range

Transport and Storage	-20°C~+70°C
Installation	-5°C~+50°C
Operation	-20°C~+70°C

■ Fire Performance for LSZH Jacket

Flame Retardancy	IEC 60332-1 and IEC 60332-3
Smoke Density	IEC 61034-1/-2
Halogen-free	IEC 60754-2

■ Mechanical Property

Min.Bend Radius	Static	10×cable diameter
	Dynamic	20×cable diameter

■ Fire Performance for PVC Jacket

Flame Retardancy	OFNR/OFNP
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■ Specifications

Fiber Count	Cable Diameter (mm)	Buffer Diameter (mm)	Cable Weight (kg/km)	Tensile Strength Long/Short (N)	Crush Resistance Long/Short (N/10cm)
24	12.3	0.9	124	400/1300	300/1000
36	14.5	0.9	180	400/1300	300/1000
42	14.8	0.9	170	400/1300	300/1000
48	14.8	0.9	170	400/1300	300/1000
60	16.1	0.9	207	400/1300	300/1000
72	17.5	0.9	254	400/1300	300/1000

■ Transmission Performance

Fiber Symbol	G652D/G657A1/A2/B2/B3		G655C/D/E		OM1		OM2/OM2+		OM3/OM4	
Fiber Type	B1.3/B6a.1/2	B6b.2/3	B4		A1b		A1a/A1a.1		A1a.2/A1a.3	
Wavelength (nm)	1310	1550	1550	1625	850	1300	850	1300	850	1300
Attenuation (dB/km)	≤0.45	≤0.35	≤0.35	≤0.40	≤3.5	≤1.5	≤3.2	≤1.2	≤3.0	≤1.0

Multi Core Breakout Cable



Features

Buffer	0.9mm tight buffer or semi-tight buffer
Buffer Color	White or other standard color
Strength Member	Aramid yarn
Subunit	2.0mm or 3.0mm
Central Member	FRP as the dielectric member for central strength element with no bonding
Subunit Jacket	LSZH, PVC or other material on request
Ripcord	Easily ripping the cable jacket
Cable Jacket	LSZH, PVC or other material on request
Jacket Color	Yellow for single mode
	Orange for multi mode OM1, OM2
	Aqua for OM3, OM4 other standard color on request

Temperature Range

Transport and Storage	-20°C~+70°C
Installation	-5°C~+50°C
Operation	-20°C~+70°C

Fire Performance for LSZH Jacket

Flame Retardancy	IEC 60332-1 and IEC 60332-3
Smoke Density	IEC 61034-1/-2
Halogen-free	IEC 60754-2

Mechanical Property

Min.Bend Radius	Static	10×cable diameter
	Dynamic	20×cable diameter

Fire Performance for PVC Jacket

Flame Retardancy	OFNR/OFNP
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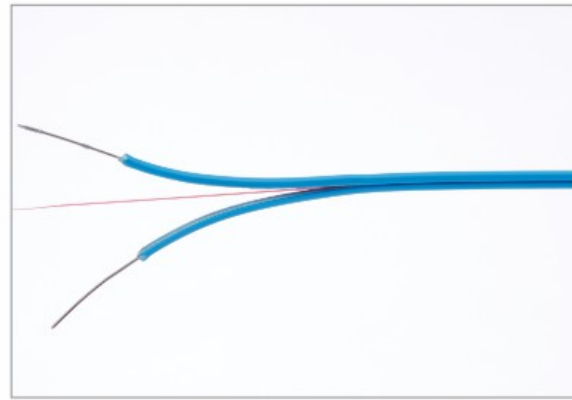
Specifications

Fiber Count	Subunit Cable Diameter (mm)	Cable Diameter (mm)	Cable Weight (kg/km)	Tensile Strength Long/Short (N)	Crush Resistance Long/Short (N/10cm)
2	2.0	7.4	56	250/500	300/1000
4	2.0	7.4	56	250/500	300/1000
6	2.0	8.4	70	250/500	300/1000
8	2.0	9.8	101	500/1000	300/1000
12	2.0	12.4	155	500/1000	300/1000
16	2.0	12.0	134	500/1000	300/1000
24	2.0	14.4	201	500/1000	300/1000

Transmission Performance

Fiber Symbol	G652D/G657A1/A2/B2/B3		G655C/D/E		OM1		OM2/OM2+		OM3/OM4	
Fiber Type	B1.3/B6a.1/2 B6b.2/3		B4		A1b		A1a/A1a.1		A1a.2/A1a.3	
Wavelength (nm)	1310	1550	1550	1625	850	1300	850	1300	850	1300
Attenuation (dB/km)	≤0.45	≤0.35	≤0.35	≤0.40	≤3.5	≤1.5	≤3.2	≤1.2	≤3.0	≤1.0

Micro FTTH Fiber Optic Cable



Features

Fiber Type	250μm fiber on ribbon fiber
Fiber Color	Standard color
Strength Member	Two parallel FRPs or steel wire for strength element with no bonding
Cable Jacket	Flame-retardant and Low smoke halogen-free jacket and excellent UV-resistance
Jacket Color	Black or other standard color on request

Temperature Range

Transport and Storage	-20°C~+70°C
Installation	-5°C~+50°C
Operation	-20°C~+70°C

Fire Performance for LSZH Jacket

Flame Retardancy	IEC 60332-1 and IEC 60332-3
Smoke Density	IEC 61034-1/-2
Halogen-free	IEC 60754-2

Mechanical Property

Min.Bend Radius	Static	30mm
	Dynamic	60mm

Specifications

FRP strength member

Fiber Count	Nominal Cable Diameter (mm)	Fiber Structure Diameter(mm)	Nominal Cable Weight (kg/km)	Tensile Strength Long/Short (N)	Crush Resistance Long/Short (N/10cm)
1	2.0×3.0	0.25	8.1	40/80	500/1000
2	2.0×3.0	0.25×2	8.5	40/80	500/1000
4	2.0×4.0	Ribbon fiber	9.8	40/80	500/1000

Steel wire strength member

Fiber Count	Cable Diameter (mm)	Fiber Structure Diameter(mm)	Cable Weight (kg/km)	Tensile Strength Long/Short (N)	Crush Resistance Long/Short (N/10cm)
1	2.0×3.0	0.25	10.5	100/200	1000/2200
2	2.0×3.0	0.25×2	10.5	100/200	1000/2200
4	2.0×4.0	Ribbon fiber	11.8	100/200	1000/2200

Transmission Performance

Fiber Symbol	G652D/G657A1/A2/B2/B3		G655C/D/E		OM1		OM2/OM2+		OM3/OM4	
Fiber Type	B1.3/B6a.1/2	B6b.2/3	B4		A1b		A1a/A1a.1		A1a.2/A1a.3	
Wavelength (nm)	1310	1550	1550	1625	850	1300	850	1300	850	1300
Attenuation (dB/km)	≤0.45	≤0.35	≤0.35	≤0.40	≤3.5	≤1.5	≤3.2	≤1.2	≤3.0	≤1.0

Non-armored Central Loose Tube Cable



■ Features

Central Loose Tube	Standard loose tube size with color-coated fibers and gel-filled results in economical use and facilitates installation
Strength Member	Two parallel steel wires or FRP dielectric members for strength element with no bonding
Waterproof Element	Several water-swellable yarns around the central loose tube
Cable Jacket	PE jacket and excellent UV-resistance and provides superior protection against abrasion
Jacket Color	Black

■ Temperature Range

Operation	-40°C~+70°C
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■ Mechanical Property

Min.Bend Radius	Static	10×cable diameter
	Dynamic	20×cable diameter

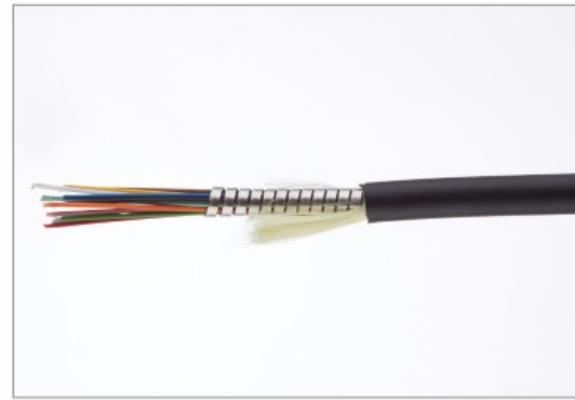
■ Specifications

Fiber Count	Max.Fiber per Tube	Cable Diameter (mm)	Cable Weight (kg/km)	Tensile Strength Long/Short (N)	Crush Resistance Long/Short (N/10cm)
2-12	12	9	77	600/1500	300/1000
14-24	24	10.4	109	600/1500	300/1000

■ Transmission Performance

Fiber Symbol	G652D/G657A1/A2/B2/B3		G655C/D/E		OM1		OM2/OM2+		OM3/OM4	
Fiber Type	B1.3/B6a.1/2	B6b.2/3	B4		A1b		A1a/A1a.1		A1a.2/A1a.3	
Wavelength (nm)	1310	1550	1550	1625	850	1300	850	1300	850	1300
Attenuation (dB/km)	≤0.36	≤0.22	≤0.22	≤0.25	≤3.2	≤1.2	≤3.0	≤1.0	≤3.0	≤1.0

Stainless Steel Flexible Hose Armored Cable



■ Features

Buffer	0.9mm or 0.6mm tight buffer fiber
Armored Tube	Stainless steel flexible hose
Strength Member	Aramid yarn
Cable Jacket	LSZH, PVC or other material on request

■ Temperature Range

Operation	-20°C~+70°C
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■ Mechanical Property

Min.Bend Radius	Static	10×cable diameter
	Dynamic	20×cable diameter

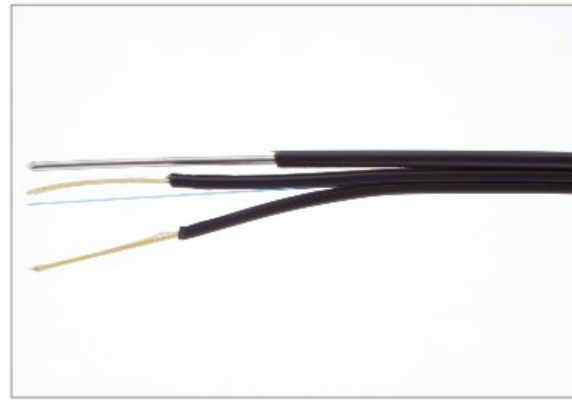
■ Specifications

Fiber Count	Cable Diameter (mm)	Cable Weight (kg/km)	Tensile Strength Long/Short (N)	Crush Resistance Long/Short (N/10cm)
1	3.0±0.1	18	100/200	3000/5000
2	3.0±0.1	24	100/200	3000/5000

■ Transmission Performance

Fiber Symbol	G652D/G657A1/A2/B2/B3		G655C/D/E		OM1		OM2/OM2+		OM3/OM4	
Fiber Type	B1.3/B6a.1/2 B6b.2/3		B4		A1b		A1a/A1a.1		A1a.2/A1a.3	
Wavelength (nm)	1310	1550	1550	1625	850	1300	850	1300	850	1300
Attenuation (dB/km)	≤0.36	≤0.22	≤0.22	≤0.25	≤3.2	≤1.2	≤3.0	≤1.0	≤3.0	≤1.0

FTTH Optical Fiber Drop Cable



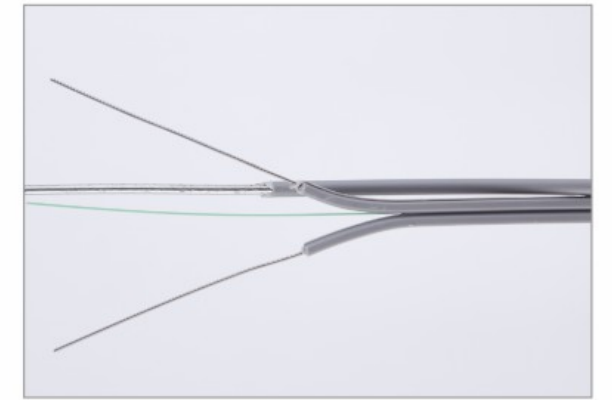
■ Features

- FTTH indoor cables are small diameter, water-resistant, soft and bendable, easy to deploy and maintenance.
- Special indoor FTTH cables will also meet the requirement of thunder-proof, anti-rodent or waterproof.

■ Specifications

Fiber Count	Cable Diameter (mm)	Cable Weight (kg/km)	Tensile Strength Long/Short (N)	Crush Resistance Long/Short (N/10cm)	Operation Temperature Range(°C)
1	2.0×3.0	11	100/200	1000/2200	-40~+85
2	2.0×3.0	12	300/3000	300/1000	-40~+85

Self-supporting Drop Optical Cable



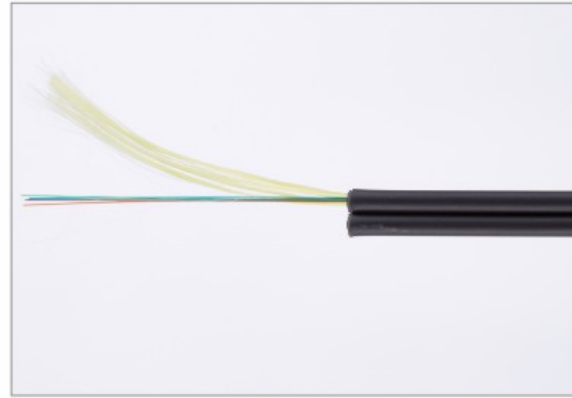
■ Features

- Simple structure, light weight.
- The two parallel strength member improves the tensile strength.
- The material of out jacket: LSZH.
- Single steel wire as additional strength member ensuring good performance of tensile strength and self-supporting.

■ Specifications

Fiber Count	Cable Diameter (mm)	Cable Weight (kg/km)	Tensile Strength Long/Short (N)	Crush Resistance Long/Short (N/10cm)	Operation Temperature Range(°C)
1	2.0×5.0	22	300/600	1000/2200	-15~+40/-40~+60
2	2.0×5.0	22	300/600	1000/2200	-15~+40/-40~+60
4	2.0×5.1	23	300/600	1000/2200	-15~+40/-40~+60

Self-supporting Figure-8 Drop Optical Fiber Cable



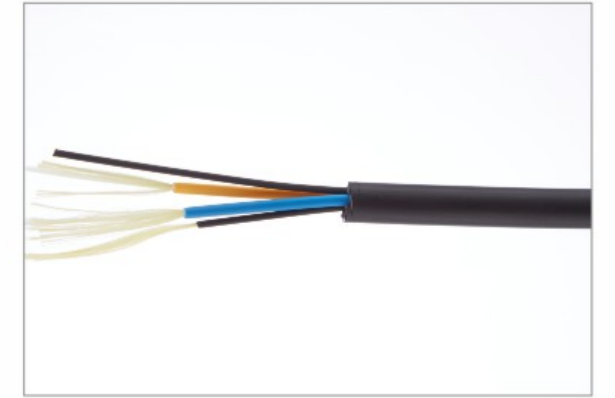
■ Features

- Special low-bend-sensitivity fiber provides high bandwidth and excellent communication transmission property.
- Two parallel strength members ensure good performance of crush resistance to protect the fiber.
- Simple structure, light weight and high practicability.
- Low smoke zero halogen and flame retardant sheath.
- Novel flute design, easily strip and splice, simplify the installation and maintenance.

■ Specifications

Fiber Count	Cable Diameter (mm)	Cable Weight (kg/km)	Tensile Strength Long/Short (N)	Crush Resistance Long/Short (N/10cm)	Operation Temperature Range(°C)
1	2.0×3.0	8	30/60	300/1000	-15~+40/-40~+60
2	2.0×3.0	8.5	30/60	300/1000	-15~+40/-40~+60
4	2.0×3.0	10	30/60	300/1000	-15~+40/-40~+60

Outdoor FTTA Optical Fiber Cable

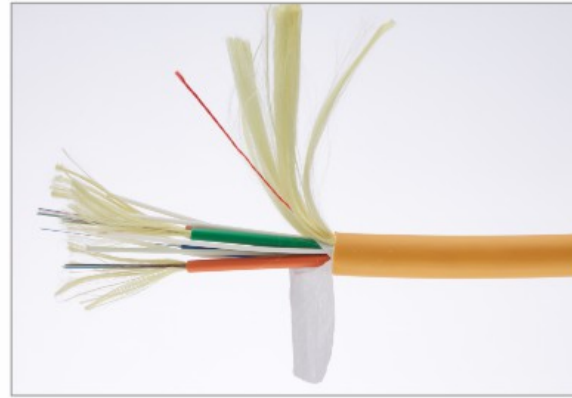


■ Features

- Strength member: Aramid yarn.
- Cable jacket: FRPE jacket and excellent UV-resistance.
- Application: Fiber to the antenna, broadcast, transportation.

Fiber Count	Nominal Cable Diameter (mm)	Fiber Structure Diameter(mm)	Nominal Cable Weight (kg/km)	Tensile Strength Long/Short (N)	Crush Resistance Long/Short (N/10cm)
2	5	0.25	30	600/1200	1000/2200

Mini Breakout Optical Fiber Cable



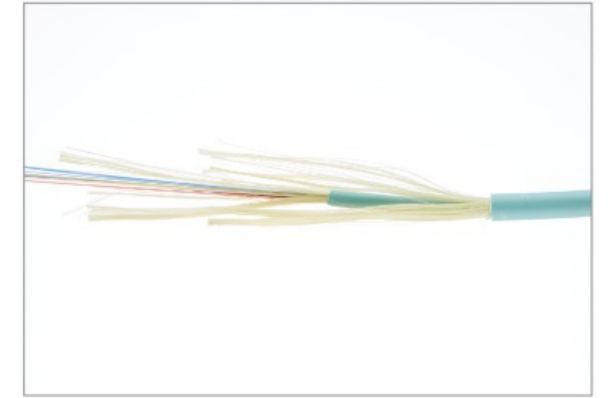
■ Features

- Large fiber count, small out diameter.
- Each individual unit cable consists of 12 fibers and has its own aramid yarn as strength member, high strength, good bending property, without gel inside, convenient for splicing and cabling.
- Color of out jacket varies according to the type of fibers inside, can also be other color upon request.
- The material of out jacket : LSZH, PVC, TPU.
- Fiber count: 12-144 cores.

■ Specifications

Fiber Count	Cable Diameter (mm)	Tolerance Range (mm)	Cable Weight (kg/km)	Tensile Strength Long/Short (N)	Crush Resistance Long/Short (N/10cm)
12	3	±0.5, or customized	7.8	80/150	150/500
24	9.5	±0.5, or customized	72	160/300	300/1000
48	9.5	±0.5, or customized	79	200/600	300/1000
72	11.7	±0.5, or customized	126	300/1000	300/1000
96	14	±0.5, or customized	178	300/1000	300/1000
144	18	±0.5, or customized	285	300/1000	300/1000

Indoor Mini Optical Fiber Cable



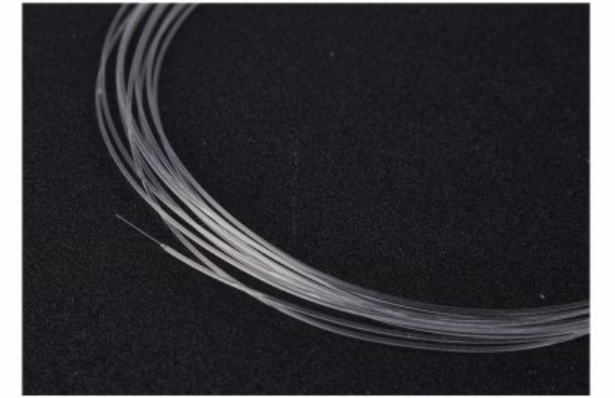
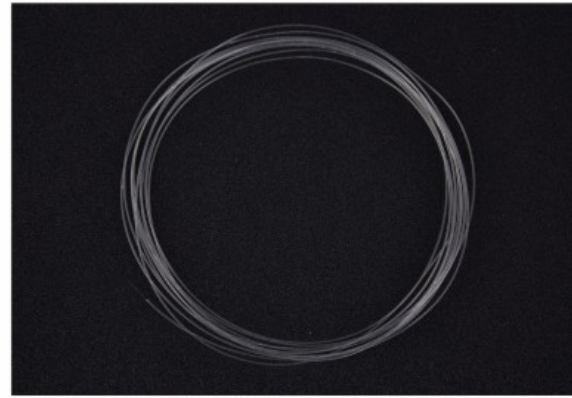
■ Features

- Colored fiber, small size.
- Aramid yarn for strong tensile strength.
- Out sheath material options: LSZH, PVC, TPU.
- Fiber counts: 2-24 cores.

■ Specifications

Fiber Count	Cable Diameter (mm)	Tolerance Range (mm)	Cable Weight (kg/km)	Tensile Strength Long/Short (N)	Crush Resistance Long/Short (N/10cm)
2	2	±0.1, or customized	3.5	40/80	50/100
4	2	±0.1, or customized	3.6	40/80	50/100
6	2	±0.1, or customized	3.7	40/80	50/100
8	2.4	±0.1, or customized	3.9	40/80	50/100
12	3	±0.1, or customized	7	40/80	50/100
24	3.5	±0.1, or customized	8	40/80	50/100

Invisible Optical Fiber Cable



■ Features

- Ultra bend-insensitive fiber.
- Fiber bonds consistently to common surface types in any indoor environment.
- Does not require messy caulking, staples or brackets.
- Installed cable almost undetectable to the casual observer.
- Reduced bend radius fiber technology is less susceptible to attenuation loss as a result of handling and tight bends.

■ Cable Environmental Performance

Operation Temperature	-10~50°C
Storage Temperature	-10~50°C
Installation Temperature	-10~50°C

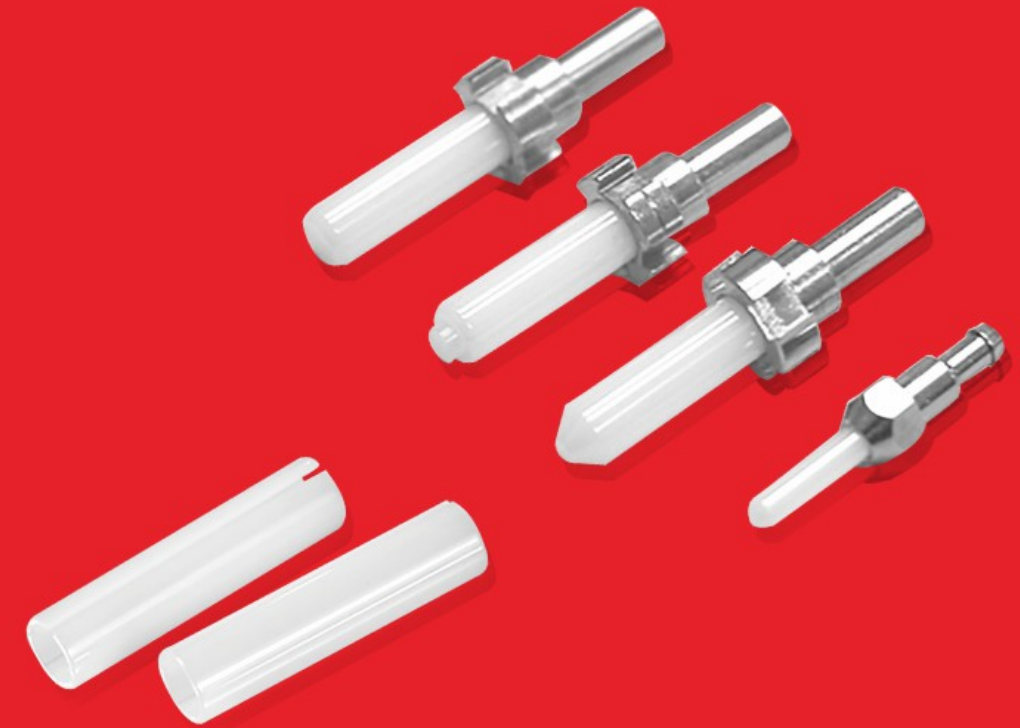
■ Cable Dimensions

Cladding Diameter	125.0±0.7μm
Cable dimension	0.9±0.05mm
Outer sheath thickness	≥0.25mm
Cable weight	1kg/km

■ Cable Parameters

Attenuation	≤0.4dB/km@1310nm, ≤0.25dB/km@1550nm
Macrobending Loss	5mm 1round, Additional loss≤0.25dB@1550nm, ≤0.45dB@1625nm
Tensile Failure Force	≥65N
Tensile	Short term 20N, Additional loss≤0.03; Long term 5N Additional loss≤0.03
Crush	Short term 500N/100mm, Long term 100N/100mm
Impact	0.5J 3times, No visual crack of cable sheath, Additional loss≤0.4dB@1550nm
Repeat Bending	5N 200times, No visual crack of cable sheath, Additional loss≤0.4dB@1550nm
Torsion	5N ±180°20times, No visual crack of cable sheath, Additional loss≤0.4dB@1550nm
Minimum-bending Radius	Operation 5mm, Installation 10mm
Temperature Cycling	-10~50°C, 2cycles, Additional loss≤0.2dB/km
Environmental Protection	Operation 5mm, Installation 10mm
Temperature Cycling	RoHS compliant

Ceramic (Zirconia) Ferrules & Sleeves



Sinocomms' high precision standard zirconia ceramic ferrules(zirconia ferrules) are designed for high reliability and performance.

Available zirconia ferrule types from Sinocomms are SC, FC, LC, ST, MU, SMA with flat, dome, cone, step, or pre-angled end-faces.

SINOCOMMS can also customize non-standard ferrules with any different length or inner diameter to meet your application needs.

Ceramic sleeves (zirconia sleeves) are mostly used in Fiber Optic Adapters for the main purpose of connecting and aligning two inserted Ceramic

Ferrules together.

They are used for ferrule outer diameters of $\phi 2.5\text{mm}$ and $\phi 1.25\text{mm}$ to connect and align ferrules of ST, FC, SC, MU and LC Fiber Optic Connectors.

Sinocomms can manufacture sleeves with special configurations such as tapered or chamfered lead in ends.

These configurations were all uniquely developed by Sinocomms to reduce sleeves breakage and ferrule end face chipping and cracking when inserting the connector into the adapter.

Zirconia Ceramic Ferrules

■ Features

- High precision and reliability
- Ultra low insertion loss and back reflection
- Varieties of end face: Flat, UPC, APC
- Available types for SC, FC, ST, LC, MU, SMA
- Available for custom designs



■ Specifications

SC FC ST Ceramic(Zirconia) Ferrule

Mode	Sing Mode	Multi Mode
Outside Diameter	2.4990mm	
OD Tolerance	±0.0005mm	±0.001mm
Concentricity	≤0.001mm	≤0.004mm
Inner Diameter	0.125mm-0.127mm	
ID Tolerance	+0.001/-0mm	+0.004/0mm
Ferrule Length	SC:10.5±0.05 , ST:12.7±0.05	
End Curve Radius	20+5/-10	

LC Ceramic(Zirconia) Ferrule

Mode	Sing Mode	Multi Mode
Outside Diameter	1.2490mm	
OD Tolerance	±0.0005mm	±0.0005/-0.0015mm
Concentricity	≤0.001mm	≤0.004mm
Inner Diameter	0.125mm-0.127mm	
ID Tolerance	+0.001/-0mm	+0.004/0mm
Ferrule Length	6.4+0.1/-0	
End Curve Radius	20+5/-10	

Zirconia Ceramic Sleeves

■ Features

- High precision and reliability
- Ultra low insertion loss and back reflection
- Available types for SC, FC, ST, LC, MU
- Available for custom designs



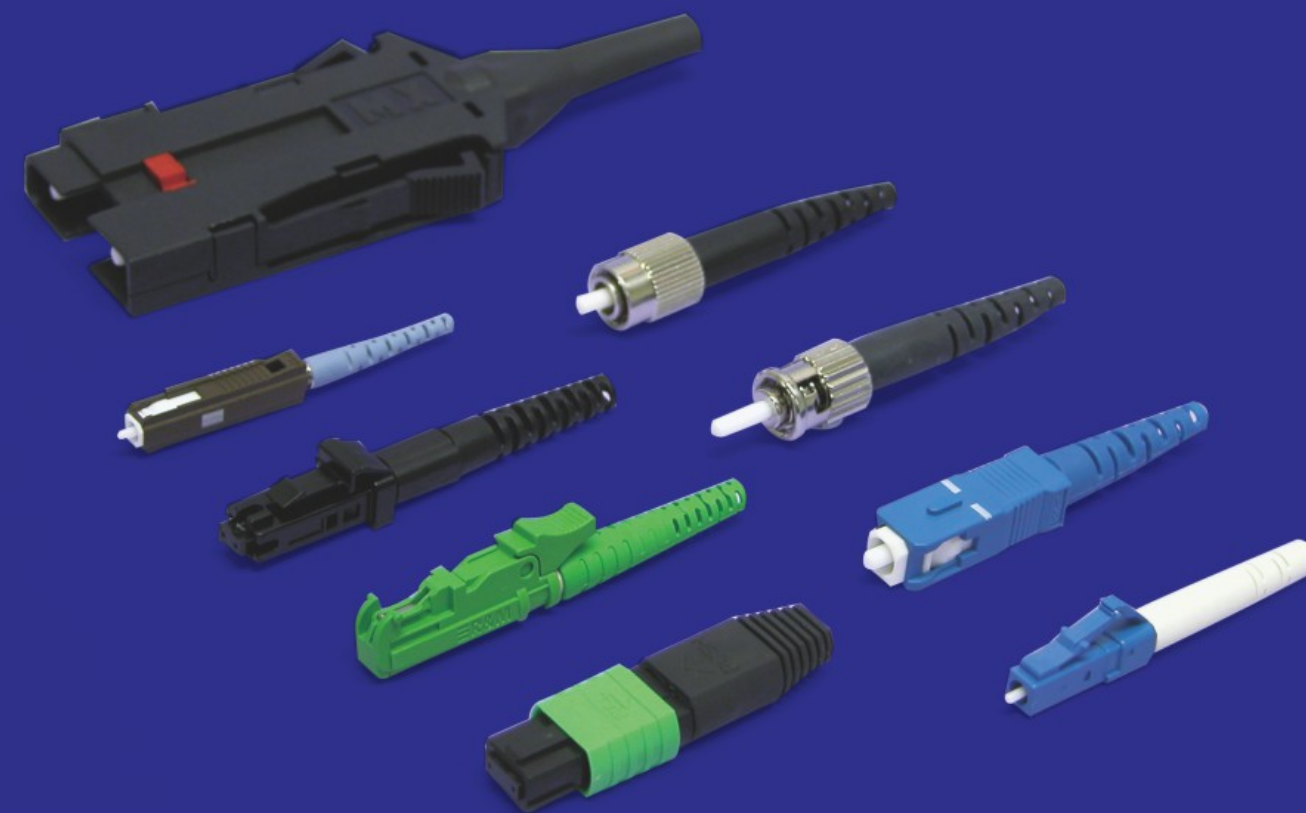
■ Specifications

Type	ST	SC, FC	LC, MU
Insertion Loss	Max 0.5dB, 0.1dB typical or better		
Withdraw Force	200gf-600gf	100gf-250gf	
Durability	<0.02dB deviation after 1000 matings, <0.02dB after temperature cycle test		
Outside Diameter	3.2±0.03mm	1.62±0.01mm	
Inner Diameter	2.49mm	1.246mm	
Ferrule Length	10.1±0.1mm	11.4±0.1mm	6.8+0/-0.1mm
Slit Width	Max 0.5±0.01mm		Max 0.2±0.01mm
Chamfer	2×R0.1		

■ More details



FIBER OPTIC CONNECTORS



Fiber Optic Connector is an important component used in fiber optic network. It is also the key part used in fiber optic patch cord and fiber optic pigtail.

Sinocomms manufactures various types of fiber optic connectors, including both standard and non-standard types. We supply fiber optic connectors with the types of: SC connector, LC connector, ST connector, FC connector, E2000 connector, MU connector, MT-RJ connector, and MPO/MTP connector etc.

Both single mode and multimode fiber optic connectors are available in Sinocomms.

Single mode fiber optic connectors are with PC, UPC or APC polish, while Multimode fiber optic connectors are only with PC or UPC polish.

Sinocomms' multimode connectors are usually with black boot or beige color, Single mode PC and UPC ones are usually with blue or black color, single mode APC is with green color.

FC Connector

■ Features

- Thread-screw coupling
- Metal connector body
- Precision anti-rotation key
- Low insertion and return loss
- APC version available for ultra low reflectance
- Tuning possible



■ Specifications

Mode	Sing Mode		Multi Mode	
	PC	UPC	PC	UPC
Endface	PC	UPC	PC	UPC
Insertion Loss	≤0.3dB	≤0.2dB	≤0.2dB	
Return Loss	≥45dB	≥50dB		
Durability	<0.1dB typical change, 1000 matings			
Operating temperature	-40°C to +85°C			

■ More details



ST Connector

■ Features

- Bayonet locking mechanism
- Long spring-loaded ferrule
- Metal connector body
- High precision alignment
- Low insertion and return loss
- Tuning possible



■ Specifications

Mode	Sing Mode		Multi Mode	
	PC	UPC	PC	UPC
Endface	PC	UPC	PC	UPC
Insertion Loss	≤0.3dB	≤0.2dB	≤0.2dB	
Return Loss	≥45dB	≥50dB		
Durability	<0.1dB typical change, 1000 matings			
Operating temperature	-40°C to +85°C			

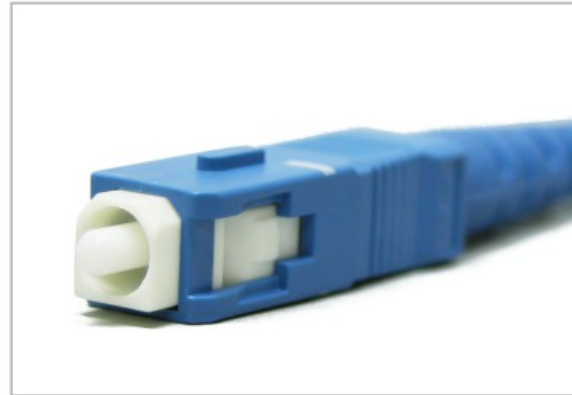
■ More details



SC Connector

■ Features

- Snap-in coupling for easy termination
- Spring-mounted ferrule
- High precision alignment
- Low insertion and return loss
- APC version available for ultra low reflectance
- UL-rated plastic housing and boots in various colors



■ Specifications

Mode	Sing Mode		Multi Mode	
	PC	UPC	PC	UPC
Endface	PC	UPC	PC	UPC
Insertion Loss	≤0.3dB	≤0.2dB	≤0.2dB	
Return Loss	≥45dB	≥50dB		
Durability	<0.1dB typical change, 1000 matings			
Operating temperature	-40°C to +85°C			

■ More details



LC Connector

■ Features

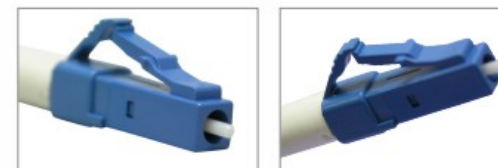
- Small form factor pluggable connector
- High-density connections
- High precision alignment
- Low insertion and return loss
- APC version available for ultra low reflectance
- Choice for telecom and high speed data networks



■ Specifications

Mode	Sing Mode		Multi Mode	
	PC	UPC	PC	UPC
Endface	PC	UPC	PC	UPC
Insertion Loss	≤0.3dB	≤0.2dB	≤0.2dB	
Return Loss	≥45dB	≥50dB	≥65dB	
Durability	<0.1dB typical change, 1000 matings			
Operating temperature	-40°C to +85°C			

■ More details



MU Connector

■ Features

- Like a miniature SC
- Snap-in coupling for easy termination
- Precision anti-rotation key
- Low insertion and return loss
- APC version available for ultra low reflectance
- Tuning possible



■ Specifications

Mode	Sing Mode		Multi Mode	
	PC	UPC	PC	UPC
Endface	PC	UPC	PC	UPC
Insertion Loss	≤0.3dB	≤0.2dB	≤0.2dB	
Return Loss	≥45dB	≥50dB	≥65dB	
Durability	<0.1dB typical change, 1000 matings			
Operating temperature	-40°C to +85°C			

■ More details



MT-RJ Connector

■ Features

- Duplex connector
- High precision guide pins for exact alignment
- Male and female versions
- Plug-jack (RJ-45) design
- APC version available for ultra low reflectance
- IA/EIA 568-A Compliant



■ Specifications

Mode	Sing Mode		Multi Mode	
	PC	UPC	PC	UPC
Endface	PC	UPC	PC	UPC
Insertion Loss	≤0.3dB	≤0.2dB	≤0.2dB	
Return Loss	≥45dB	≥50dB	≥65dB	
Durability	<0.1dB typical change, 1000 matings			
Operating temperature	-40°C to +85°C			

■ More details



FIBER OPTIC ADAPTERS



The optical fiber adapter is designed to mate two ends of the fiber optic cable with high precision. The adapter uses a simple design: the ends of two separate fiber optic cables with fiber optic connectors fit into two slots opposite each other. The slots are designed to precisely align the two ends so that there is minimal to signal loss.

SINOCOMMS' Fiber Optic Adapters are precision manufactured to ensure the perfect alignment of

connectors thus reducing the insertion loss.

The alignment sleeves are made of zirconia ceramic. SINOCOMMS' adopts high quality raw materials and makes these fiber optic adapters strictly according to international standard, which enables our fiber optic adapters fully compatible with the products from other manufacturers' in the market.

SC Adapter

■ Features

- Compact design
- High precision sleeve
- Low insertion and return loss
- Choice of metal or plastic housing, mount styles & flange options
- Telcordia, ANSI, TIA/EIA, NTT and JIS compliance



■ Specifications

SC Adapter	Zirconia Sleeve	Metal Sleeve
Insertion Loss	0.05dB Typical , 0.20dB Maximum	0.10dB Typical , 0.30dB Maximum
Sleeve Withdraw Force	200gf-600gf	
Durability	<0.1dB typical change, 1000 matings	
Operating Temperature	-40°C to +85°C	

■ More details



FC Adapter

■ Features

- Compact design
- High precision sleeve
- Low insertion and return loss
- Choice of metal or plastic housing, mount styles & flange options
- Telcordia, ANSI, TIA/EIA, NTT and JIS compliance



■ Specifications

FC Adapter	Zirconia Sleeve	Metal Sleeve
Insertion Loss	0.05dB Typical , 0.20dB Maximum	0.10dB Typical , 0.30dB Maximum
Sleeve Withdraw Force	200gf-600gf	
Durability	<0.1dB typical change, 1000 matings	
Operating Temperature	-40°C to +85°C	

■ More details



ST Adapter

■ Features

- Compact design
- High precision sleeve
- Low insertion and return loss
- NTT-FC compatibility
- Telcordia, ANSI, TIA/EIA, NTT and JIS compliance



■ Specifications

ST Adapter	Zirconia Sleeve	Metal Sleeve
Insertion Loss	0.05dB Typical , 0.20dB Maximum	0.10dB Typical , 0.30dB Maximum
Sleeve Withdraw Force	200gf-600gf	
Durability	<0.1dB typical change, 1000 matings	
Operating Temperature	-40°C to +85°C	

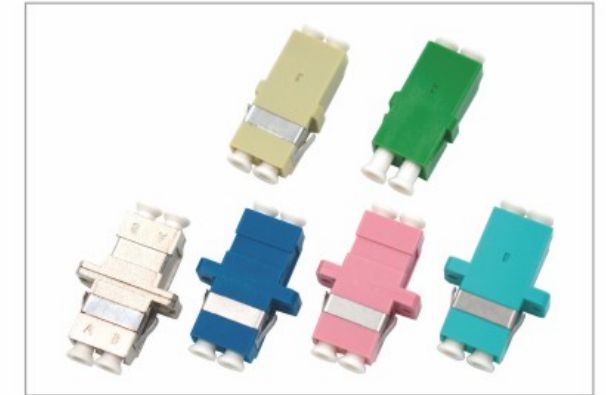
■ More details



LC Adapter

■ Features

- Compact design
- High precision sleeve
- Low insertion and return loss
- Choice of metal or plastic housing, mount styles & flange options
- Telcordia, ANSI, TIA/EIA, NTT and JIS compliance



■ Specifications

LC Adapter	Zirconia Sleeve	Metal Sleeve
Insertion Loss	0.05dB Typical , 0.20dB Maximum	0.10dB Typical , 0.30dB Maximum
Sleeve Withdraw Force	200gf-600gf	
Durability	<0.1dB typical change, 1000 matings	
Operating Temperature	-40°C to +85°C	

■ More details



MU Adapter

■ Features

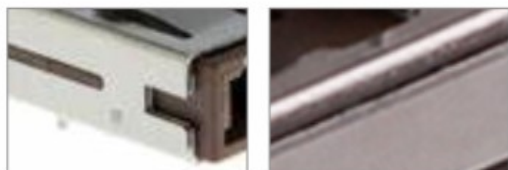
- Compact design
- High precision sleeve
- Low insertion and return loss
- NTT-MU hardware compatibility
- Corrosion resistance
- Telcordia, ANSI, TIA/EIA, NTT and JIS compliance



■ Specifications

MU Adapter	Zirconia Sleeve	Metal Sleeve
Insertion Loss	0.05dB Typical , 0.20dB Maximum	0.10dB Typical , 0.30dB Maximum
Sleeve Withdraw Force	200gf-600gf	
Durability	<0.1dB typical change, 1000 matings	
Operating Temperature	-40°C to +85°C	

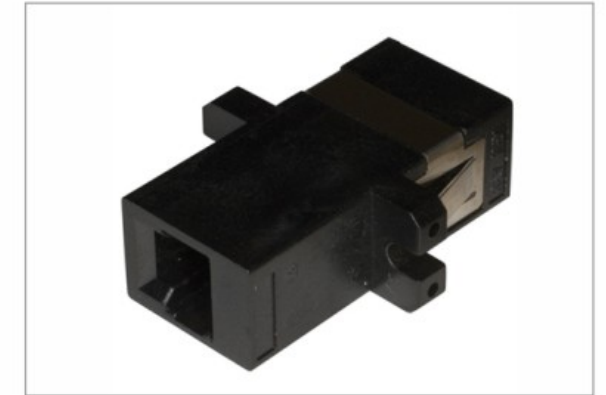
■ More details



MT-RJ Adapter

■ Features

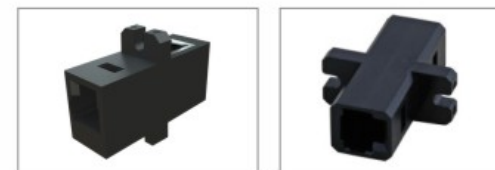
- Compact design
- High precision sleeve
- Low insertion and return loss
- Plug-jack (RJ-45)
- Corrosion resistance
- Telcordia, ANSI, TIA/EIA, NTT and JIS compliance



■ Specifications

MT-RJ Adapter	Zirconia Sleeve	Metal Sleeve
Insertion Loss	0.05dB Typical , 0.20dB Maximum	0.10dB Typical , 0.30dB Maximum
Sleeve Withdraw Force	200gf-600gf	
Durability	<0.1dB typical change, 1000 matings	
Operating Temperature	-40°C to +85°C	

■ More details



MTP Adapter

■ Features

- Compact design
- Flange and Non-Flanged Types
- Low insertion and return loss
- SC footprint
- Corrosion resistance
- Telcordia, ANSI, TIA/EIA, NTT and JIS compliance



■ Specifications

MTP Adapter	Zirconia Sleeve	Metal Sleeve
Insertion Loss	0.05dB Typical , 0.20dB Maximum	0.10dB Typical , 0.30dB Maximum
Sleeve Withdraw Force	200gf-600gf	
Durability	<0.1dB typical change, 1000 matings	
Operating Temperature	-40°C to +85°C	

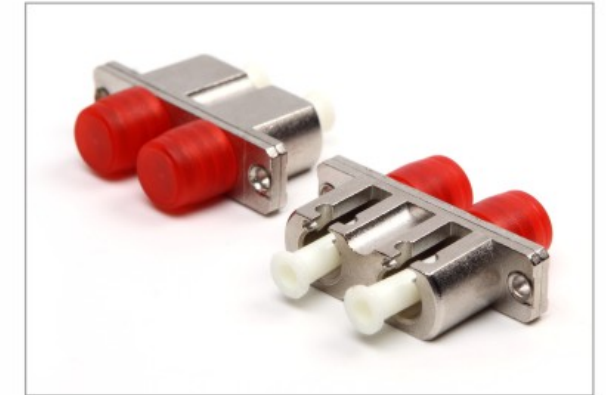
■ More details



Hybrid Adapter

■ Features

- Compact design
- High precision sleeve
- Low insertion and return loss
- Choice of plastic or metal housing
- Available with square or rectangular flange



■ Specifications

Hybrid Adapter	Zirconia Sleeve	Metal Sleeve
Insertion Loss	0.05dB Typical , 0.20dB Maximum	0.10dB Typical , 0.30dB Maximum
Sleeve Withdraw Force	200gf-600gf	
Durability	<0.1dB typical change, 1000 matings	
Operating Temperature	-40°C to +85°C	

■ More details



FIBER

OPTIC

ATTENUATORS



Fiber Optic Attenuators are used in the fiber optic communications to reduce the optical fiber power at a certain value, the most commonly used type is fixed male to female fiber optic attenuator, it has the fiber optic connector at one side and a female type fiber optic adapter at the other, inside, there is a piece of attenuation optical fiber, and the fiber optic attenuator name is based on the connector type and the attenuation value.

Sinocomms' fixed male to female attenuators offer multiple options including SC, LC, ST, FC, and MU connector types and definable attenuation values from 1db to 30dB.

Sinocomms also manufactures high speed variable optical attenuators (VOAs)

They has a variable optical power attenuation in a fiber optic link. You can manually adjust the attenuation level to any value within the adjustment range.

VOAs are classified into mechanical variable optical attenuators (MVOAs) and electrical variable optical attenuators (EVOAs) based on their adjustment modes.

SC Attenuator

■ Features

- Easy connection with plug-in type structure
- Dual wavelength (1310nm/1550nm)
- Attenuation levels ranging from 1dB to 30dB, with standard and premium to lerances
- Return Loss: less than 50dB(UPC), less than 65dB(APC)
- GR-910-Core compliance



■ Specifications

Fiber Mode	Single Mode	Multi Mode
Operating Wavelength	1260nm-1620nm	850nm
Attenuation Value	1dB-30dB	1dB-25dB
Return Loss for UPC	≥50dB	
Return Loss for APC	≥65dB	
Operating temperature	-40°C to+75°C	

■ More details



FC Attenuator

■ Features

- Easy connection with plug-in type structure
- Dual wavelength (1310nm/1550nm)
- Attenuation levels ranging from 1dB to 30dB, with standard and premium to lerances
- Return Loss: less than 50dB(UPC), less than 65dB(APC)
- GR-910-Core compliance



■ Specifications

Fiber Mode	Single Mode	Multi Mode
Operating Wavelength	1260nm-1620nm	850nm
Attenuation Value	1dB-30dB	1dB-25dB
Return Loss for UPC	≥50dB	
Return Loss for APC	≥65dB	
Operating temperature	-40°C to+75°C	

■ More details



ST Attenuator

■ Features

- Easy connection with plug-in type structure
- Dual wavelength (1310nm/1550nm)
- Attenuation levels ranging from 1dB to 30dB, with standard and premium to lerances
- Return Loss: less than 50dB(UPC), less than 65dB(APC)
- GR-910-Core compliance



■ Specifications

Fiber Mode	Single Mode	Multi Mode
Operating Wavelength	1260nm-1620nm	850nm
Attenuation Value	1dB-30dB	1dB-25dB
Return Loss for UPC	≥50dB	
Return Loss for APC	≥65dB	
Operating temperature	-40°C to+75°C	

■ More details



LC Attenuator

■ Features

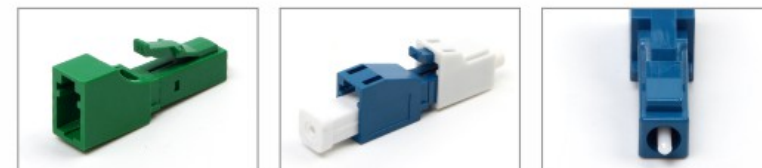
- Easy connection with plug-in type structure
- Dual wavelength (1310nm/1550nm)
- Attenuation levels ranging from 1dB to 30dB, with standard and premium to lerances
- Return Loss: less than 50dB(UPC), less than 65 dB(APC)
- GR-910-Core compliance



■ Specifications

Fiber Mode	Single Mode	Multi Mode
Operating Wavelength	1260nm-1620nm	850nm
Attenuation Value	1dB-30dB	1dB-25dB
Return Loss for UPC	≥50dB	
Return Loss for APC	≥65dB	
Operating temperature	-40°C to+75°C	

■ More details



FIBER OPTIC SPLITTERS



Sinocomms manufactures both of PLC and FBT splitters.

Planar Lightwave Circuit (PLC) splitters follow a specific manufacturing process for optical passive network components.

They consist of a waveguide array that is applied to a silica chip by using a photolithographic masking process.

Sinocomms' PLC splitters are designed with precise alignment of optical fibers to provide equal optical power from input ports to multiple output ports.

They split optical power evenly over the entire single-mode operating window(1260-1650nm), and splitting counts are available from 1x4 up to 2x32.

Sinocomms' PLC splitter types are including stainless steel tube, ABS box, cassette, rack mount

and LGX, and available in different configurations, with SC/APC and LC/APC connectors.

Sinocomms' bend-insensitive single mode G.657.A fibers are used to provide low bending loss and protection against accidental tight bends down to 7.5mm radius.

Fused Biconical Taper (FBT) splitters are applied in a cost-effective way.

Sinocomms' FBT splitters can be customized to different splitting ratios, and support three different operating wavelengths(850/1310/1550nm).

Sinocomms offers a wide range of fiber optic splitters for all applications.

All fiber optic splitters from Sinocomms are factory tested with a detailed test report in the packing case.

PLC Splitters

■ Features

- Reliable Performance
- Rugged Construction
- Easy Identification
- Speedy Installation



■ Specifications

Type	1*2	1*4	1*8	1*16	1*32	1*64	2*2	2*4	2*8	2*16	2*32	2*64	
Premium Grade													
Insertion Loss at 23°C	4	7	10.4	13.5	16.8	20.5	4	7.3	10.6	13.9	17.2	20.8	
Channel Uniformity	Max	0.6	0.8	1	1.4	1.6	2	0.8	1	1.2	1.5	1.8	2
PDL		0.2	0.3	0.3	0.3	0.3	0.5	0.2	0.3	0.3	0.3	0.3	0.5
Standard Grade													
Insertion Loss at 23°C		4.2	7.3	10.6	13.8	17.1	20.8	4.2	7.5	11	14.5	17.5	21
Channel Uniformity	Max	0.6	0.8	1	1.4	1.6	2	0.8	1	1.2	1.5	1.8	2
PDL		0.2	0.3	0.3	0.3	0.3	0.5	0.2	0.3	0.3	0.3	0.3	0.5
Operating wavelength	nm	1260 ~ 1650											
Return Loss	Max	55(P Grade) / 50(S Grade)											
Directivity	dB	55											
Operating Temperature	°C	-40 ~ +85											
Fiber Type	-	ITU G.657A Or Customization											

■ More details



FBT Splitters

■ Features

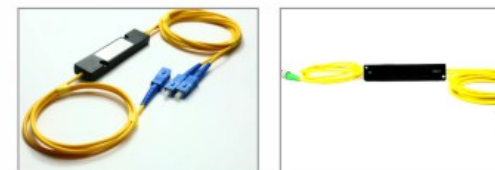
- Low Excess Loss
- Various Coupling Ratio
- Compact Size
- High Stability and Reliability



■ Specifications

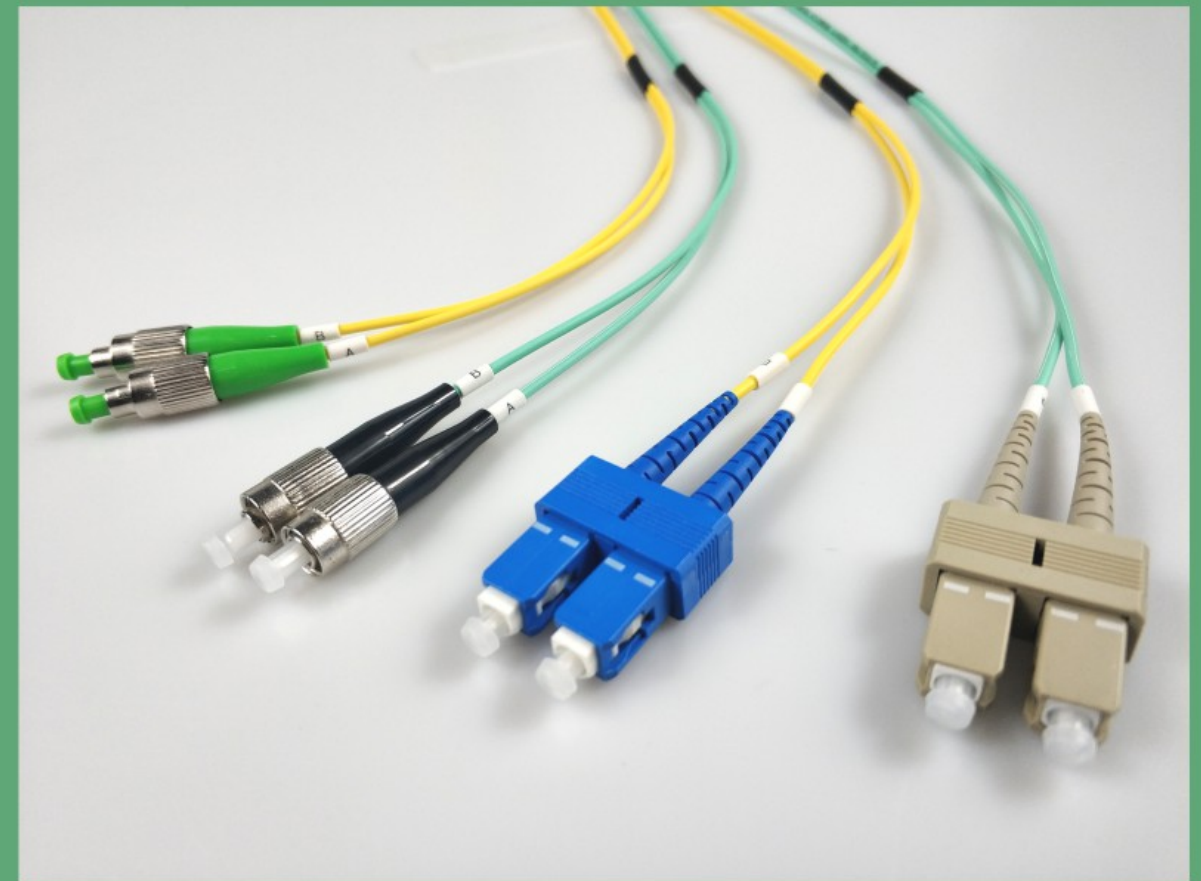
Single Standard Splitter		
Grade	P Grade	A Grade
Coupling Ratio (%)	50/50	50/50
Excess Loss (Typical) (dB)	0.1	0.15
Maximum Insertion loss (dB)	3.4	3.6
Polarization Sensitivity (dB)	0.15	0.2
Operating Wavelength (nm)	1310, 1490, 1550, or custom wavelength	
Single Wide band Splitter		
Grade	P Grade	A Grade
Coupling Ratio (%)	50/50	50/50
Excess Loss (Typical) (dB)	0.07	0.1
Maximum Insertion loss (dB)	3.4	3.6
Polarization Sensitivity (dB)	0.15	0.2
Operating Wavelength (nm)	1310±40,1550±40, or custom wavelength	

■ More details





FIBER OPTIC CABLE ASSEMBLIES



Sinocomms is a global top 10 manufacturer of fiber optic patch cables in the telecommunications industry, meeting or exceeding many of the industry standard requirements for optical transmission loss, reflectance, visual end face specifications, and geometry.

Our fiber optic cable assemblies are available to provide wide variety of fiber optic patch cords/pigtails.

Types of cables include: single mode (OS1, and OS2) and multimode (OM1, OM2, OM3, OM4, and OM5), indoor and outdoor, standard and bend

insensitive.

Type of connectors include: single mode and multimode, LC, SC, FC, ST, MU, FDDI, MTRJ, E2000, and MPO/ MTP.

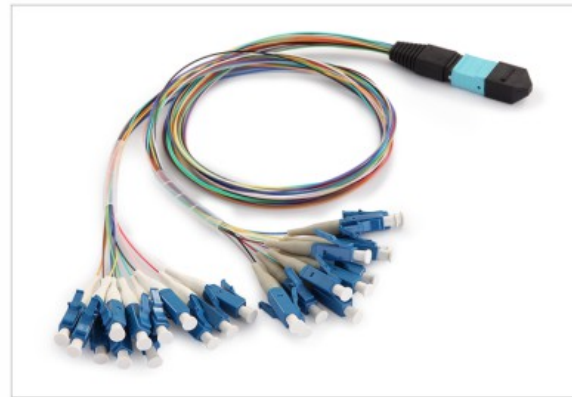
Sinocomms is able to manufacture any custom fiber optic patch cords based on the variety of fiber counts, cable types, lengths and connector combinations available.

We test each of our fiber optic patch cables before packing to meet stringent industry standards.

MTP Series

■ Features

- MT based Multi-fiber Connector
- 4,8,12 and 24 fiber connector terminations and assemblies
- Designed for low loss and standard loss SM and MM applications
- Ruggedized round cable, oval cable and bare ribbon options available
- Color coded housings available to differentiate fiber type, polish type or connector grade
- Good in repeatability and exchangeability



■ Optical Performance

Mode	Single Mode		Single Mode	
	SM standard	SM Low Loss	MM standard	MM Low Loss
Insertion Loss	0.25dB Typical 0.75dB Maximum	0.10dB Typical 0.35dB Maximum	0.20dB Typical 0.60dB Maximum	0.10dB Typical 0.35dB Maximum
Return Loss	>60dB(8° Polish)		>20dB	
Exchangeability	≤0.2dB			
Tensile Strength	>70N			
Durability	<0.2dB typical change,500 matings			
Operating Temperature	-40°C to+75°C			

■ Geometric Specification of Endface

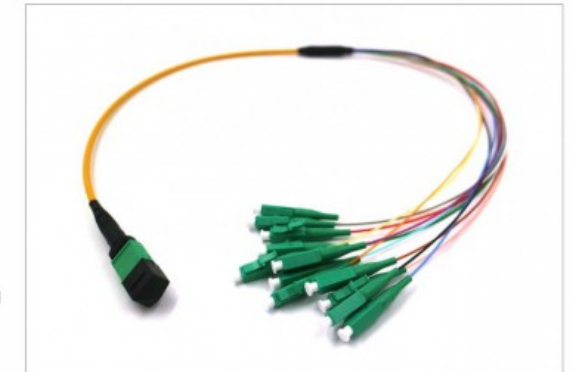
Mode	Single Mode		Single Mode	
	RX	2000mm Minimum		
RY	5mm Minimum			
Fiber Height	1000-3500nm			
Max.Diff.Height All	500nm Maximum			
Max.Diff.Height Adj	300nm Maximum			
X Axis Angle	-0.15° ~ 0.15°		-0.20° ~ 0.20°	
Y Axis Angle	APC: 7.80° ~ 8.20°		-0.20° ~ 0.20°	
Core Dip	N/A		-100 ~ 200	

MTP Harness Fanout Cable

MTP harness cable refers to the use of MTP single head 12 core or 24 connector at the end of the cable, and the other end of the cable is using the LC/SC/FC connector, the products are mainly used in those who need directly from the port or device area distribution. The structure can be also used for the extension of the optical fiber cables.

■ Characteristics

- Polarity available, Cross Connection: AB/BA, Paralled Connection: AB/AB
- Insertion loss type available il Standard, Elite/Low Loss
- MTP connector type available in Male, Female, Male to Female
- Cable length available in 1 to 999 meters, Fanout length available
- Cable type available in round, ribbon
- Improve and simplify fiber routing, decrease fiber management space



MTP Trunk Cable

MTP trunk cables are high density multi-stranded cables which form the backbone of the data center. Available in different fiber-counts up to 144 fibers, the MTP trunks reduce the installation time by consolidating multiple sub-units into a single cable. This approach significantly reduces the overall diameter of the cable and provides much better space utilization of cable routing channels. MTP trunk cables are available with 8, 12 and 24 fiber sub-units so that users can deploy Base-8, Base-12 or Base-24 infrastructures to suit their MTP connectivity requirements.

■ Characteristics

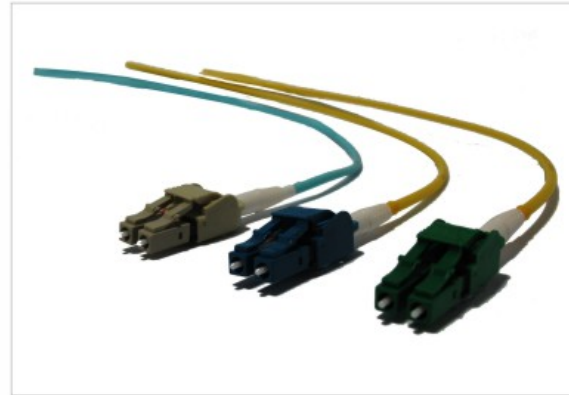
- Polarity available in Type A, Type B, Type C, Type R
- Insertion loss type available in Standard, Elite/Low Loss
- MTP connector type available in Male, Female, Male to Female
- Cable length available in 1 to 999 meters
- Cable type available in round, ribbon
- Improve and simplify fiber routing, decrease fiber management space



LC Uniboot Series

■ Features

- Available in OM3, OM4, OS1/OS2 (ITU-T G.652D or G.657A1) or ITU-T G.657A2 cabled fiber types
- Available with Enhanced (-UNI) or Low Loss Premium (-UNIDC) optical performance
- Available with LSZH, Plenum and Riser rated cable
- Save up to 68% of space in cabinets and cable ways
- Protects network polarity



■ Specifications

OPTICAL PERFORMANCE- STANDARD	SINGLE MODE	MULTIMODE	CONFORMANCE
Insertion loss (MAX/MASTER)	0.25 dB	0.25 dB	IEC 61300-3-4
Ave/Master	0.18 dB	0.15 dB	IEC 61300-3-4
Ave/Random	0.18 dB	0.20 dB	IEC 61300-3-34

OPTICAL PERFORMANCE- LOW LOSS PREMIUM	SINGLE MODE	MULTIMODE	CONFORMANCE
Insertion loss (MAX/MASTER)	0.15 dB	0.15 dB	IEC 61300-3-4
Ave/Master	0.12 dB	0.08 dB	IEC 61300-3-4
Ave/Random	0.12 dB	0.10 dB	IEC 61300-3-34

CHARACTERISTICS	UNITS	3 mm ROUND DUPLEX	2.4 mm ROUND DUPLEX
Cable Material		LSZH / Riser / Plenum	LSZH / Riser / Plenum
Strength Member		Aramid	Aramid
Crush	N/100 mm	1000	1000
Operating Temperature	°C	-20 to 60	-20 to 60
Secondary Buffer Diameter	µm	900 ± 50	600 ± 50
Minimum Bending Radius	mm	10D (installed) 20D (loaded)	10D (installed) 20D (loaded)

■ More details



Economic Series

■ Features

- Simplex or duplex or multi fiber assemblies
- Various connector options: SC, FC, ST, LC, E2000, MU
- PC, UPC, and APC polish types
- Various fiber types: typical 9/125mm, 50/125mm and 62.5/125mm
- Custom fiber optic cable lengths and jacket colors
- Riser or Plenum rated, LSZH and RoHS cables available
- Low insertion loss, IEC, TIA/EIA, Telcordia compliant



■ Specifications

Connector type	SC, FC, ST, LC, MU, SMA, E2000
Polish	PC, UPC, APC
Fiber Type	Single Mode(9/125um): OS1, OS2 Multi Mode(50/125um, 62.5/125um): OM1, OM2, OM3, OM4
Fiber Cable	Simplex Duplex Multi fibers
Jacket Material	LSZH, OFNP, OFNR, PVC
Cable Diameter	2.0/2.4/3.0mm
Insertion Loss	≤ 0.2dB (UPC)
Exchangeability	≤ 0.2dB
Durability	<0.2dB typical change, 500 matings
Operating Temperature	- 40°C to +75 °C
Radius of Curvature	10 to 25mm(PC/UPC), 5to 12mm(APC)
Apex Offset	≤50um
High Fiber	±100nm
Angular Offset	8°± 0.2° (APC)

■ More details

