

Catalogue



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Company Overview

Founded in 2003 in Shenzhen China, Sino Optic is a factory based fiber optic product and solution manufacturing company providing a vast array of connectivity solutions to the data storage, telecommunications, military, industrial, broadcast and networking industries. In addition to standard fiber optic patch cords and attenuated test cables, Sino Optic has pioneered proprietary products, many of which are now considered to be an industry benchmark.

Sino Optic is an industry leader in ruggedized fiber optic solutions for the defense/government, industrial, data storage, test & measurement, broadband, telecommunications, medical, and networking industries.

Sino Optic has over 400 employees with manufacturing, research and development, sales, and marketing activities based at the corporate headquarters.

We can supply fiber optic products to internationally recognised standards as well as to custom-made requirements, such as patch cord, pigtail, connector, adapter, attenuator, SFP(Transceiver-Small Form Pluggable), transceiver, media converter, couplers, splitters, loopback, and ceramic ferrules & sleeves. Our manufacturing technologies make products to sub-micron tolerance quality. Since our establishment, we have sold these products to corporations, government agencies, educational institutions and other dealers and distributors.

History

January 2003 LHT Communication Equipment Founded August 2003 LHT headquarter relocation February 2005 LHT expanded product mix with complete line of specialty fiber products March 2008 HTD Communication Equipment Founded June 2008 HTD awarded one of the 100 fastest growing companies in Shenzhen for the last five years May 2009 HTD Releases the SFP+ Electrical Loopback September 2010 Sino Optic Communication Founded October 2010 Sino Optic Announces its new website for 2010 Mar. 2011 Sino Optic Bought out Zhejiang YF Optical Component Limited, and set it as its New production base of fiber optic connectors and adapters.





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Contents





Zirconia Ceramic Ferrules

Introduction:

Ferrule is the most important component of Fiber Connectors and Fiber Patch Cord. It could be made of different materials, such as plastics, stainless steel, and ceramic(zirconia). Most of the ferrules used in optical connectors are made of ceramic(Zirconia) material.Ceramic Ferrule include low insertion loss required for optical transmission, remarkable strength, small elasticity coefficient, easy control of product characteristics, and strong resistance to changes in environmental conditions.

The outer diameter (OD) Ceramic (Zirconia) Ferrule size for ST, FC and SC Fiber Connectors is $\phi_{2.5}$ mm, The OD Ceramic(Zirconia) Ferrule size for the MU and LC Fiber Connector Versions is $\phi_{1.25}$ mm.

The OD Ceramic (Zirconia) Ferrules size is precise with a tolerance level of ±0.0005 mm. The inner diameter (ID) Ceramic Ferrules size has a precision of 0.001mm in concentricity and 0.0005mm in eccentricity for the single mode ferrules used for optical communication components. The OD Ceramic Ferrules size is precise with a tolerance level of ±0.001 mm. The inner diameter (ID) Ceramic Ferrules size has a precision of 0.003mm in concentricity and 0.004mm in eccentricity for the multimode ferrules used for LAN or other Applications.

Ferrule Type SC TYPE APC(CONICAL TYPE) APC(STEP TYPE) LC TYPE MU TYPE TYPE LC、MU type APC type SC type 2.499±0.0005 1.249±0.0005 2.499±0.0005 O.D.Size(mm) d +0.001 d +0.001 d +0.001 I.D.Size(mm) ≤0.001 ≤0.001 Concentricity(mm) ≤0.008



Ceramic Ferrule



Sleeve

Technical Data:

Type:SC type;APC(Step/Conical type);LC type;MU type Surface:Spherical/Flat surface Mode:Single/Multi mode Flange:With flange or Without flange Concentricity:0.5µm,1.0µm,1.4µm,4.0µm Inside diameter:125µm,125.5µm,126µm,127µm

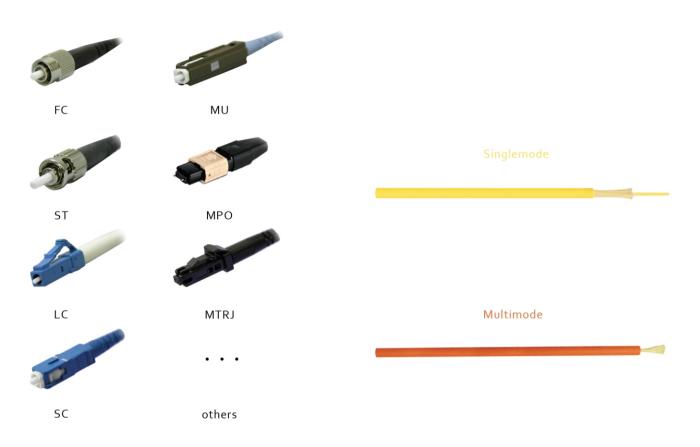
Technical Data:

Type:SC type、LC type、MU type Split width:0.5mm、 1.0mm Pull out force:1.5-4.5N/2.0-6.0N/2.0-4.0N/3.0-6.0N

We provide wide variations of high precision singlemode and multimode standard Ceramic (Zirconia) ferrules with PC, UPC, APC, conical and step end-face for ST, SC, FC, LC, MU fiber connectors and patch cord, Standard ferrule assemblies with standard type SC, ST, MU flange are also available.



Fiber Optic Patch Cords



Specifications:

Wavelength	singlemode		1310/1550nm	
vvavelengun	multimode		850/1300nm	
Insertion loss	singlemode		<0.2dB	
linsertion loss	multimode		<0.3dB	
	singlemode	PC	>45dB	
Return loss		UPC	>50dB	
Returnioss		APC	>60dB	
	multimode	PC	>30dB	
Durability	mating		>1000times	
Durability	I.L change		<0.2dB	
Tension			>200N	
Operating temperature			-10℃~70℃ -40℃~85℃	
Storage temperature		Storage temperature		

Ordering Information:

1.Connector A&B Type: FC,SC,ST,LC,MU,MTRJ,......(PC/UPC/APC)

2.Simplex or Duplex

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3.Optical Fiber:

①Singlemode/Multimode (9/125µm,50/125µm,62.5/125µm);

②Cable Diameter: 0.9mm, 2.0mm, 3.0mm;

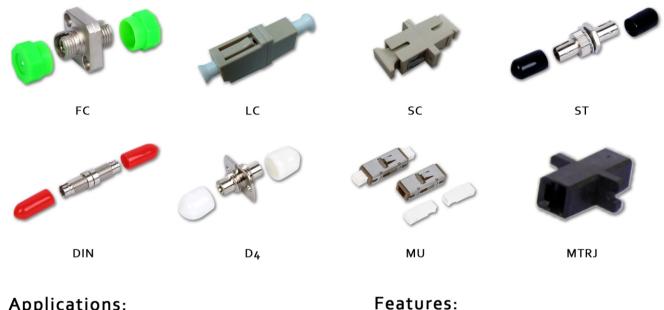
③Riser Rated (OFNR), Plenum Rated (OFNP), Low Smoke Zero Halogen (LSZH);

(4) Cable Length (meter): 1m, 2m, 3m,

Note:

The fiber patch cable and pigtail come with your choice of simplex or duplex cable configurations and various types of pigtail and connector terminations to meet your requirement, please contact us with your connector & performance specifications.

Fiber Optic Adapters



Applications:

Telecommunication networks	Compliant with:IEC,Telcordia	
Data communications networks	Optical performance 100% factory tested	
Active device termination	Excellent Concentricity	
CATV networks	Ceramic sleeves	
LAN(Local Area Networks)	Easy to handle	

Specifications:

Characteristics	Condition	Value(dB)
Insertion Loss	/	<0.15
Mating Cycles	1000 times	<0.20
Operating Temperature	-40-75 ℃	<0.20
Storage Temperature	-55-85℃	<0.20
Humidity	75 [°] C,95%/336hr	<0.20
Sleeve	Ceramic,Dust caps	<0.20

Technical Data:

1.Fiber Type:	2.Connector A Type:	3.Connector B Type:	4.Polishing Type:	5.Port Type:
Singlemode/Multimode	SC,FC,LC,ST,MU	SC,FC,LC,ST,MU	UPC,APC	Simplex/Duplex

Others:

Hybrid Adapters: FC-SC, LC-FC, ST-FC, SC-LC are available, please contact us with your performance specifications.



Fiber Optic Attenuators



FC



LC

SC

1

ST

A Bat

Features:

Specifications:

Low back reflection	Mode Type	SM,MM
High power endurance	Operating wavelength(nm)	1310,1550
Precise control of attenuation range		
Easy installation	MAX PDI(dB)	≤0.1
Environmentally stable	Attenuation Value	±0.5dB(<10dB)
Customer design specification		±o.1dB(>1odB)
Readily panel mountable	Return Loss(dB)	UPC>55dB,APC>6odB,PC>45dB
	Operating Temperature	-30-75 [℃]
	Storage Temperature	-40-85 °C
	Connector Type	SC,FC,ST,LC

Ordering Information:

1.	2.	3.
Fiber Mode:	Connector Type:	Attenuation Value:
Single-mode	SC	01-25dB
Multi-mode	FC	
	LC	

Sino Optic offers 1~20dB and standard attenuation values at 3,5,10,15 and 20dB,advantaging economy scale for mass productive supply and custom-made attenuation value meeting your specific requirement, please contact us with your performance specifications.



