

# 用光对接未来

CONNECTING THE WORLD BY THE LIGHT

互联网改变生活

致力光通信配线产品制造

Internet change life

Dedicated to optical fiber patchcord  
products manufacturing



创 新  
CREATIVE

用 心  
ATTENTIVE



宁波容大光电科技有限公司

Ningbo Ronta Photoelectric Technology Co.,Ltd.

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## 企业口号

用芯连接世界 用光对接未来  
Connecting the world by the ferrule  
Connecting the world by the light

## 企业精神

海纳百川，有容乃大  
The sea admits hundreds  
of rivers for its capacity to hold

## 企业理念

以人为本，精益求精，顾客满意，持续改进  
People-oriented,excellence,customer satisfaction,  
continuous improvement



宁波容大光电科技有限公司于2009年投身光通信产业，是国家高新技术企业，专注致力于光通信配线产品的制造。公司生产基地位于中国宁波，面积3万多平方米，总投资超2亿元，并先后通过了ISO9001质量体系、ISO14001环境体系、TL9000电信业质量体系、产品污染控制ROHS四大行业国际标准认证。

公司面向全球布局销售网络，拥有年产1.5亿枚单模陶瓷插芯、1500万只光纤连接器生产线及光缆布线系列产品线，致力于满足全球光通信配线产品客户的需求，提供从产品研发到生产装配、技术支援的全方位服务。

科技实现价值、互联改变生活。

容大光电，尊崇“海纳百川，有容乃大”的企业精神，倡导“以人为本、精益求精、顾客满意、持续改进”的经营理念，以标准为基石，以质量为保证，以人才为创新动力。公司将以完整的产品实验体系和严格的质量管理体系，全力保证客户的利益。

创新、用心、造芯，容大光电--用芯连接世界、用光对接未来。

Ningbo Ronta Photoelectric Technology CO.,LTD get involved in the optical communication industry since 2009,which is a national high-tech enterprises,dedicated to the manufacture of optical communication wiring products.The production of the company is located in Ningbo,China,with an area of over 30000 square meters,and the total investment is over 200 million yuan.We also have passed the ISO9001 quality system,ISO14001 environment system,TL9000 telecom quality system and product pollution control ROHS for industry international standard certification.

Company sells the network to the global layout,with 150 million single-mode ceramic ferrules ,15 million fiber optic connector and fiber optic cable series production line output annual.

Dedicated to meet the needs of global optical communication wiring products for customers.Providing from product development to production assembly and technical support all-round services.

Science and technology realize value,internet change life.

The company advocates people-oriented,pursue excellence,customer satisfaction,continuous improvement management philosophy and adheres to the principles of technology and founding on the quality,to build a harmonious environment with vigor and order.It will spare no efforts to satisfy customer needs and create a win-win cooperation for a better future!

Creative,Attentive,Rontaray-Connecting the world by the ferrule,Connecting the world by the light.



完整  
的生产线

COMPLETE  
Production Line

先进  
的生产设备

ADVANCE  
Production Equipment

精密  
的检测仪器

PERCISION  
Test Instruments





FIBER OPTICAL PATCHCORD

SPECIAL FIBER OPTICAL PATCHCORD

MPO

FIBER OPTICAL PATCH PANEL

PLC

ADAPTER

FIBER CABLE

FIBER OPTICAL PATCHCORD

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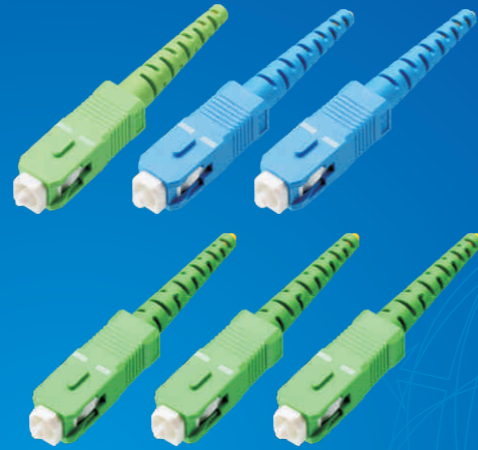
FIBER CABLE



### FIBER OPTICAL PATCHCORD

- Features:**
- Low insertion loss, high return loss
  - Good compatibility
  - High precision of mechanical dimensions
  - High reliability & stability
  - PC, APC, UPC optional, cable length optional

- Applications:**
- Optical access network
  - Optical-fiber CATV
  - A local area network(LAN)
  - Test Equipment



### PIGTAIL ASSEMBLY



- Features:**
- Low insertion loss, high return loss
  - Good compatibility
  - High precision of mechanical dimensions
  - High reliability & stability

- Applications:**
- Optical access network
  - Optical-fiber CATV
  - A local area network(LAN)
  - Test Equipment

### DIN, MU, ESCON



- Features:**
- Low insertion loss, high return loss
  - Good compatibility
  - High precision of mechanical dimensions
  - High reliability & stability

- Applications:**
- Optical access network
  - Optical-fiber CATV
  - A local area network(LAN)
  - Test Equipment

### SMA, LX.5



- Features:**
- Low insertion loss, high return loss
  - Good compatibility
  - High precision of mechanical dimensions
  - High reliability & stability

- Applications:**
- Optical access network
  - Optical-fiber CATV
  - A local area network(LAN)
  - Test Equipment

### E2000



- Features:**
- Low Insertion Loss & PDL
  - Factory-terminated and Tested
  - Fiber Options: G.652 /G.657/OM1/OM2/OM3 and PM Panda Fiber
  - Connector Options: FC/SC/LC/ST/MU/DIN/SMA/E2000/MT-RJ/MPO/MTP
  - Polishing Options: PC/UPC/APC

- Applications:**
- Telecommunication networks
  - CATV&FTTX
  - LAN and WAN
  - Data Centre

Specifications:

Item	SM	MM
Type	SC/UPC	SC/APC
	LC/UPC	LC/APC
	FC/UPC	FC/APC
	ST/UPC	ST/APC
Return Loss	≥50dB	≥35dB
Insertion Loss	≤0.25dB	
Operating Temperature	-40°C ~ +80°C	
Repeatability	≤0.1dB	
Interchangeability	≤0.2dB	
Insertion and Pull Times	1000	
Tensile Strength	>80N	
Remark: High standard demand fit above IEC, Grade B requirements		



## MPO

### Features:

- Low insertion loss, high return loss
- Good exchangeability Good durability
- High temperature stability
- Standard: Telcordia GR-326-CORE

### Applications:

- CATV & Metro
- Test Equipment & Premise installations
- Telecommunication networks
- Premise installations

### Specifications:

Model		SM	MM
Connector A: MPO/MTP			
Connector Fiber Count		8, 12, 24, 48, 96 Core	
Polish		PC, APC	PC
Insertion Loss	Standard	≤ 0.70dB	≤ 0.50dB
	Elite Low Loss	≤ 0.35dB	≤ 0.35dB
Return Loss		PC ≥ 50dB, APC ≥ 60dB	≥ 30dB
Durability (500 Matings)		≤ 0.2dB	
Test Wavelength		1310/1550nm	850/1300nm
Connector B: LC, LC Uniboot, SC, FC, ST			
Polish		PC, APC	PC
Insertion Loss		≤ 0.25dB	≤ 0.25dB
Return Loss		PC ≥ 50dB, APC ≥ 60dB	≥ 35dB
Durability (500 Matings)		≤ 0.2dB	
Test Wavelength		1310/1550nm	850/1300nm

## FIBER OPTICAL PATCH PANEL

### Features:

- Low Insertion loss
- Low PDL
- Good channel-to-channel uniformity
- High Reliability and Stability

### Applications:

- FTTX Systems
- PON Networks
- CATV Links
- Optical Signal Distribution
- Local Area Networks (LAN)
- Fiber Communication Systems

### Product Description

Fixed Rack-mount Fiber Optic Patch Panel with 1U height distribution center holds up to 2 fusion splice trays and provides an economical way of splicing a small number of fiber cables in communication room or existing equipment racks where space is constrained. Can be installed 24 pcs Duplex SC adapters inside.



## PLC

### Features:

- Low Insertion loss
- Low PDL
- Good channel-to-channel uniformity
- High Reliability and Stability

### Applications:

- FTTX Systems
- PON Networks
- CATV Links
- Optical Signal Distribution
- Local Areal Networks (LAN)
- Fiber Communication Systems



### Specifications:

Parameters	1×2	1×4	1×8	1×16	1×32	1×64
Operating Wavelength (nm)	1260~1650					
Fiber Type	G652D,G657A1,G657A2 or customer specified					
Insertion Loss (dB)(P/S Grade)	3.8/4.0	7.1/7.3	10.2/10.5	13.5/13.7	16.5/16.9	20.5/21.0
Loss Uniformity (dB)	0.4	0.6	0.8	1.2	1.5	2
Polarization Dependent Loss(dB)	0.2	0.2	0.2	0.25	0.3	0.35
Return Loss (dB) (P/S Grade)	55/50	55/50	55/50	55/50	55/50	55/50
Directivity (dB)	55	55	55	55	55	55
Wavelength Dependent Loss (dB)	0.3	0.3	0.3	0.5	0.5	0.5
Temperature Stability (-40~85 °C)(dB)	0.4	0.4	0.4	0.5	0.5	0.5
Operating Temperature (°C)	-40~85					
Storage Temperature (°C)	-40~85					
Device Dimension (mm)	40×4×4	40×4×4	40×4×4	50×4×4	50×7×4	60×12×4
Module Dimension (mm)	100×80×10	100×80×10	100×80×10	120×80×18	140×115×18	140×115×18
Mini-Module Dimension (mm)	50×7×4	50×7×4	50×7×4	60×12×4	80×20×6	100×40×6

## ADAPTER

### Features:

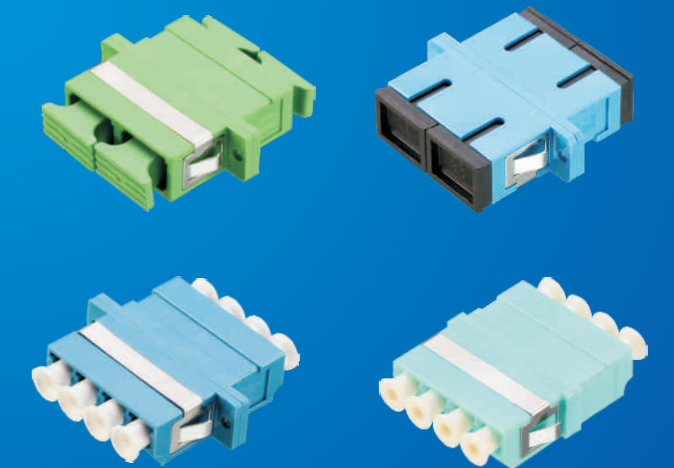
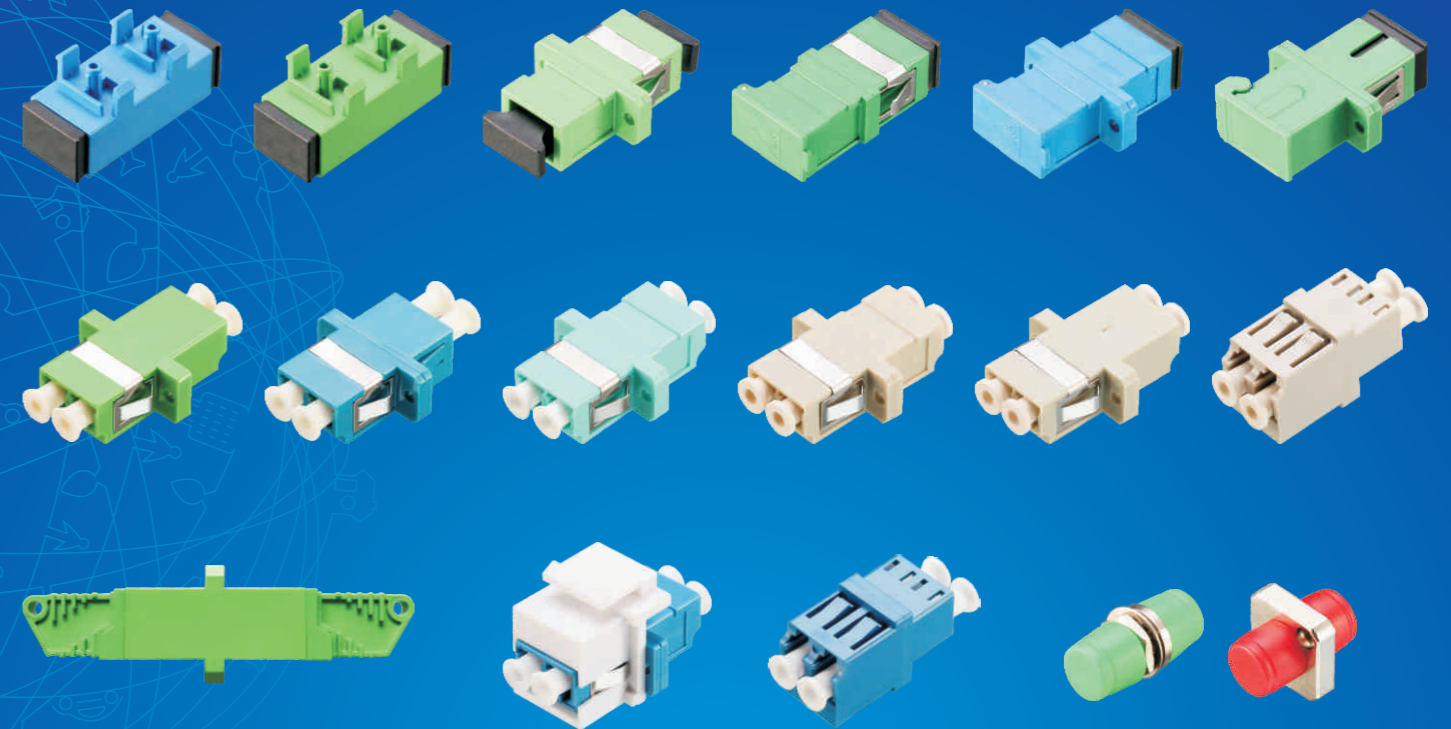
- Free-hanging or panel-mount design.
- Dust caps protect against debris and contamination
- RoHS Compliant

### Applications:

- CATV Telecommunication networks
- Test equipment
- Metro
- Local Area networks(LANS)
- Data processing networks

### Product Description

Fiber optic adapter is also called fiber optic coupler. It is used to provide a cable to cable fiber connection. People sometimes also name them to be mating sleeves and hybrid adaptors. Mating sleeves means this fiber optic adapter is used to connect the same type fiber optic connectors, while hybrid adaptors are the fiber optic cable adaptor types used to connect different kinds of fiber optic connectors. We provide a complete line of adapters for fiber optic connection, like ST, SC, FC, LC style fiber optic adapters for both multimode and single-mode fiber applications.





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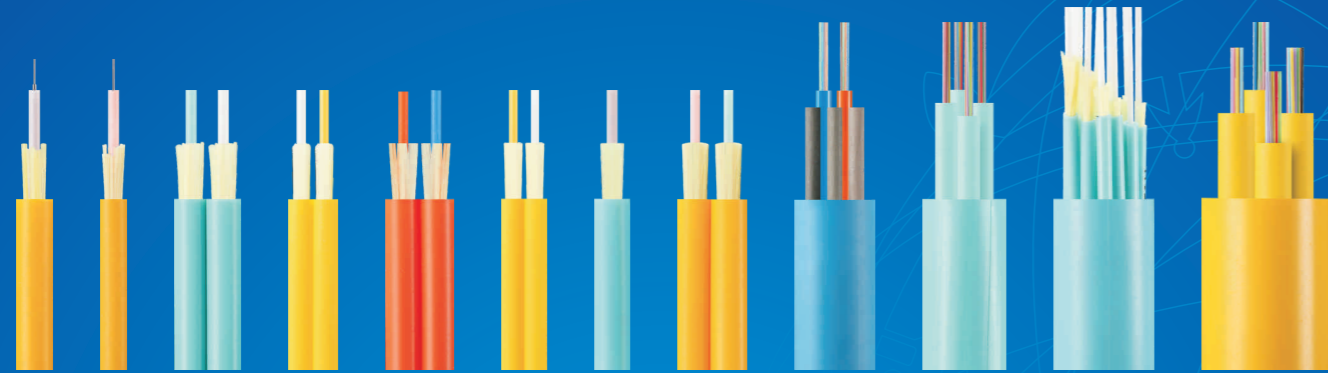
ADAPTER

FIBER CABLE

## FIBER CABLE INDOOR

### Features:

- Good mechanical and environmental characteristics
- Flame reardant characteristics meet the requirements of relevant standards
- Flexible, easy to splice, and with big capacity transmission



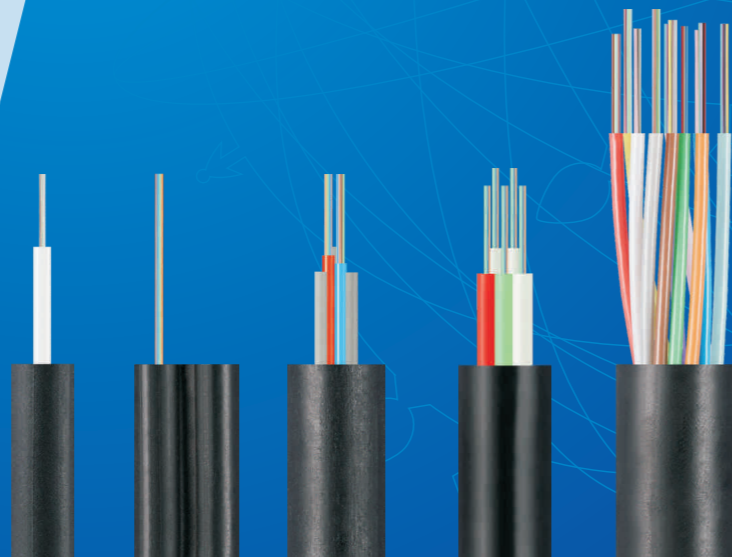
## FIBER COLOR CODE

Color												
NO of fiber	1	2	3	4	5	6	7	8	9	10	11	12
Color names	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

## FIBER CABLE OUTDOOR

### Features:

- Good mechanical and environmental characteristics
- Flame reardant characteristics meet the requirements of relevant standards
- Flexible, easy to splice, and with big capacity transmission



## Company Honor



## Certifications & Systems



## Test Reports



## Patents

