

# Optical patch-cords(pigtails) and connector

## Features :

- Low insertion loss, high return loss
- Good repeatability and exchangeability



## Applications :

- Long distance main line , LAN, access net
- Fiber CATV network , fiber data network
- FTTH



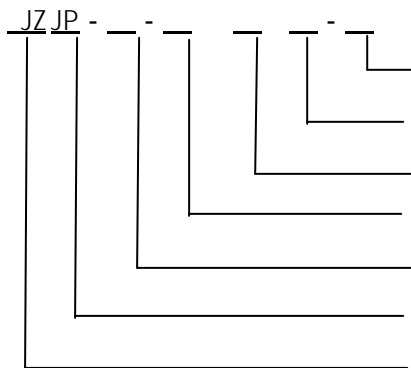
## Specifications :

parameter	FC/PC	FC/UPC	FC/APC	SC/PC	SC/UPC	SC/APC	ST/PC	ST/UPC
Insertion loss (dB)	SM: 0.3,MM and data: 0.2							
Insertion loss (max) (dB)	0.4							
Repeatability (dB)	0.1							
Exchange (dB)	0.2							
Return loss(dB)	45	50	60	45	50	60	45	50
Connection Durability time	>1000 次							
Operating temperature	-40 ~ +80		-25 ~ +70			-40 ~ +80		

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h-cords and pigtaills don't require return loss ,the types only have FC/APC、PC ; SC/APC、PC ; ST/PC ; LC ; MU ; MTRJ ; DIN ; D4 ; MTP。

## Ordering information :



- Optical fibers length(m) : according to customers' requirements
- Optical fiber type : SM ; MM
- Outside diameter of optical fibers ( mm ) : f 0.9 ; f 2.0 ; f 3.0
- Ceramics end surface type : PC , UPC , APC
- Connector interface type : FC , SC , ST , LC , MU , MTRJ etc .
- Patch-cord code : JP
- Company : Sichuan Jiuzhou Opto-electronics Ltd

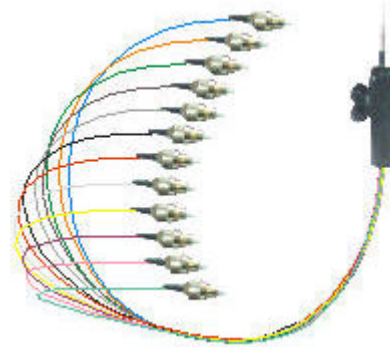
## Ribbon patch cords and waterproof cables

### Ribbon patch cords

#### Features :

Coincidence IEC and YD/T826-1996 standard

- Low insertion loss and high return attenuation
- High Reliability
- Good exchangeability
- Full chromatograph
- Easily Install and operate
- Quantity of Optical cable's core: 4,6,8,12 cores
- Optical cable outside Diameter : 0.9mm,2.0mm
- Connecting type : FC , SC , ST
- Ceramics ferrule type: UPC,APC



#### Applications :

- Used to connect multi-core ribbon optical cords and distribution frame
- Can realize distributing fibers in ODF distribution frame

### Waterproof cables

#### Features :

- Adapter, connector coincidence IEC standard
- Low insertion loss and high return attenuation
- Easily Install and operate
- Good hermetically sealed
- Bear corrosion strongly
- Quantity of Optical cable's cores: 2 , 4 , 6 cords
- Optical cable outside Diameter
- Connecting type : FC , SC
- Ceramics ferrule type : UPC、 APC
- Temperature Scope : - 45 ~ + 60

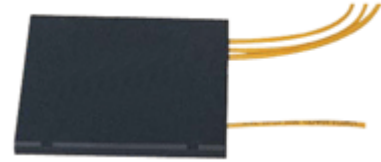


# Optical splitter

## SM star/tree optical splitter:

SM optical splitters make optical signal coupled on coupling area, and distributes the optical power again.

The main structures have star and tree, the main parameters include central wavelength, bandwidth, excess loss, coupling ratio and PDL etc.



### Features:

- Low PDL
- Low excess loss
- Good directivity
- Stable environment
- Many selectable types
- Standard type, flat type, wide band star structure, tree structure



### Applications:

- Fiber communication systems
- Optical fiber CATV
- Optical fiber access
- Monitoring system
- Optical fiber sensor
- Optical source distribution

### Specification:

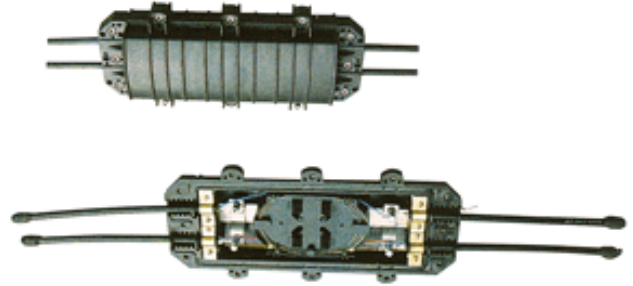
type	Typical			Single Window Wideband			Dual Window Wideband		
Center Wavelength (nm)	1310 或 1550			1310 或 1550			1310 或 1550		
Bandwidth (nm)	± 40			± 40			± 40		
Star structure	4 × 4	8 × 8	16 × 16	4 × 4	8 × 8	16 × 16	4 × 4	8 × 8	16 × 16
Tree structure	1 × 4	1 × 8	1 × 16	1 × 4	1 × 8	1 × 16	1 × 4	1 × 8	1 × 16
Typical Insertion Loss (dB)	6.3	9.4	12.6	6.3	9.4	12.6	6.3	9.4	12.6
Max. Insertion Loss(dB)	7.1	10.6	14.3	7.6	11.5	14.5	7.7	11.7	15.5
Uniformity (dB)	0.7	1.0	1.3	1.5	2.2	3.0	1.9	2.8	3.7
Directivity (dB)	50								
Operating Temperature ( )	-40 ~ +70								
Storage Temperature( )	-40 ~ +85								
PDL dB )	0.15								
Max. bearing Power (mw)	300								
Max. Tensile Load ( N )	5								

NOTES: Others star/ tree splitters on customer request.

### Fiber Optic splice Closures

**Features :**

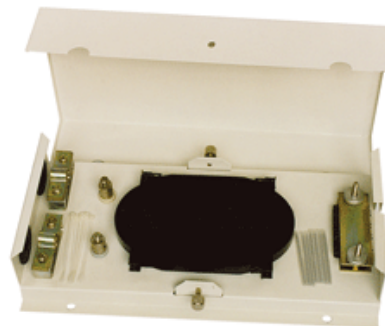
- Small size, Light weight
- Rational structure, easily Installed
- Good mechanical effects
- Apply to lays straight/ figurehead /pipeline
- Quantity of cores :8-144 cores
- Suitable outside diameter of optical cables:< 50mm
- Temperature range:-45 +60



### Optical fiber terminal box

**Feature :**

- Steel material, surface static electricity spurts processing, beautiful and durable
- Rational structure, conveniently and easily operate
- 1-2 inputs, not less than 48 pigtails
- Good mechanical performance



## 1310/1550 standard WDM

### Features

- Low Insertion loss
- High Isolation
- Low PDL
- Good Directivity
- Perfect stable environment

### Applications

- Fiber-optical communication systems
- Fiber-optical CATV
- Fiber-optical access network
- Fiber-optical test equipments



### Specifications

Product type	OMU	UV		
		normal	High isolation	Super high isolation
Operating wavelength (nm)	1310nm 和 1550nm			
Bandwidth(nm)	± 20			
Insertion loss(max) (dB)	0.35	0.35	0.75	1.0
Wavelength isolation (min) (dB)	18	18	30	40
± 10nm Bandwidth isolation(dB) ( typical )	20	20	37	45
Directivity (dB)	= 60			
PDL(dB)	= 0.15			
Operating temperature ( )	-40 ~ +55			
Storage temperature( )	-40 ~ +85			
Load bearing power(max) (mw)	300			
tensile strength (max) (N)	5			

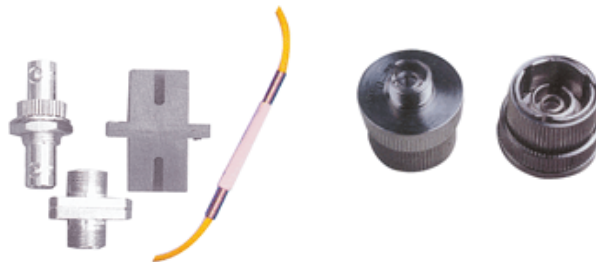
## In-line and adapting attenuator

### Features :

- Perfect stable environmental
- Easily installed
- Low difference of attenuation coefficient
- Attenuator value can be specified

### Applications :

- Telecommunication network
- LAN
- Fiber-optical CATV systems
- Fibre-optical sensor
- FTTH



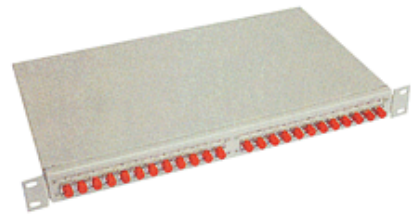
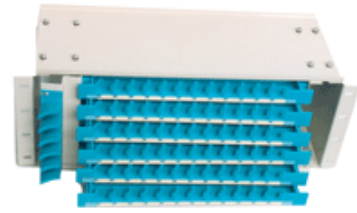
### Specifications :

Parameter	Fixed attenuator	In-line attenuator
Operating wavelength(nm)	1310 or 1550	1310 or 1550
Attenuation and Accuracy	5 ± 1.0、 10 ± 1、 15 ± 1.5、 20 ± 2	
Return Loss(dB)		40
Connector type	FC , SC , ST	FC , SC , ST
Temperature range ( )	-40~+80	-40~+80

## Framework/Wall Mount Fiber-Optic Distribution Box

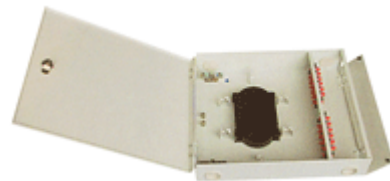
### Features :

- Completely sealed, dustproof
- Front shell and back shell can be opened , easily operate and maintain
- Large space for optical fiber placing in box
- Rectangle adapter can install multi-connectors
- Adopt imported material , high strength, light weight
- Surface processing adopt import material, spray paint



### Applications :

- Connect distribution network and optical cables
- Connect optical cable terminal equipments



### Specifications :

Name	Model	Standards (width*high*thick)mm
12C distribution box(1U drawer)	JZ=F-R-012	433× 204× 43
24C distribution box	JZ=F-R-024	433× 204× 43
48C distribution box	JZ=F-P-048	433× 170× 175
72C distribution box	JZ=F-P-072	433× 170× 175
12C distribution box (wall)	JZ=F-W-012	300× 300× 75
24C distribution box (wall)	JZ=F-W-012	360× 355× 93
48C distribution box (wall)	JZ=F-W-012	405× 405× 160
24C waterproof distribution box	JZ=F-P-024-SS	400× 400× 60