MapleArashi

Fiber Optic Cable Manufacturer

SC Patch Cord

SC Connector Structure

Fiber Optic Patch Cords

Cable Assembly | SM / MM | UPC / APC

Connectorized Cable Assembly | SC / LC / FC / ST / MPO | Simplex / Duplex

Fiber optic patch cords are connectorized cable assemblies designed for optical connection between equipment ports, ODFs, patch panels, terminal boxes, wall outlets, telecom rooms, data centers, and FTTH access networks. Available configurations may include SC, LC, FC, ST, MPO, UPC/APC polish, single-mode, multimode, simplex, duplex, and project-specified cable lengths subject to confirmed product configuration. Final connector type, fiber mode, cable jacket, cable diameter, optical performance, and packaging are subject to project requirements.

Product	Fiber Optic Patch Cords
Model	SC / LC / FC / ST / MPO and project-specified configurations
Category	Components & Accessories - Fiber Optic Patch Cords
Structure	Connectorized fiber optic cable assembly with cable jacket, connector ends, ferrules, boots, and dust caps

This specification is for reference only. Connector type, fiber mode, cable jacket, cable diameter, cable length, and optical performance are subject to confirmed product configuration and project requirements.

1. Product Information

Field	Specification
Product	Fiber Optic Patch Cords
Model	SC / LC / FC / ST / MPO and project-specified configurations
Category	Components & Accessories - Fiber Optic Patch Cords
Structure	Connectorized fiber optic cable assembly with cable jacket, connector ends, ferrules, boots, and dust caps
Connector Type	SC / LC / FC / ST / MPO / hybrid options, subject to confirmed product range
Polish Type	UPC / APC, subject to connector type
Fiber Type	Single-mode / multimode, subject to project requirements
Cable Construction	Simplex / duplex / project-specified configuration
Cable Diameter	Subject to confirmed product configuration
Cable Length	Subject to project requirements
Application	ODF / patch panel / telecom room / data center / FTTH terminal connection / equipment interconnection

2. Company Profile

Maplearashi Technology, with 20 years of expertise in fiber optic communication, manufactures fiber optic patch cords in our facility located in the Guangdong-Hong Kong-Macao Greater Bay Area. These connectorized cable assemblies are designed for optical connection between equipment ports, ODFs, patch panels, terminal boxes, wall outlets, telecom rooms, data centers, and FTTH access networks. Connector type, fiber mode, cable jacket, cable diameter, and cable length are subject to confirmed product configuration and project requirements. Compliance documents available upon request.

3. Product Overview

Fiber optic patch cords are connectorized cable assemblies designed for optical connection between equipment ports, ODFs, patch panels, terminal boxes, wall outlets, telecom rooms, data centers, and FTTH access networks. Configurations may include SC, LC, FC, ST, MPO, UPC/APC polish, single-mode, multimode, simplex, duplex, and project-specified cable lengths subject to confirmed product configuration. The cable assembly incorporates optical fiber within a cable jacket, terminated with connectors on both ends, and equipped with boots and protective dust caps. Final connector type, fiber mode, cable jacket, cable diameter, optical performance, and packaging are subject to project requirements.

4. Key Features

- Connectorized fiber optic cable assembly for equipment and network patching
- Available connector types: SC, LC, FC, ST, MPO / hybrid options, subject to confirmed product range
- UPC / APC polish options, subject to connector type
- Single-mode and multimode fiber options, subject to project requirements
- Simplex and duplex cable construction options
- Cable length, cable diameter, and jacket material per project specifications

5. Recommended Use

- ODF and fiber distribution frame patching
- Fiber optic patch panel connection
- Telecom room fiber interconnection
- Data center structured cabling
- FTTH terminal box connection
- ONT / ONU / equipment fiber connection
- Indoor fiber distribution and network patching
- Test equipment fiber connection

6. Installation Benefits

- Pre-terminated cable assembly reduces field termination time
- Connectorized ends provide plug-and-play installation
- Simplex and duplex options allow flexible deployment configurations
- Ready-to-use cable links reduce fiber preparation and splicing requirements

7. Technical Specifications

7.1. General Specifications

Layer	Component	Material / Function
Connector T	SC / LC / FC / ST / MPO / hybrid options, subject to confirmed product range	
Polish Typ	UPC / APC, subject to connector type	
Fiber Typ	Single-mode / multimode, subject to project requirements	
Cable Constr	Simplex / duplex / project-specified configuration	
Cable Diam	Subject to confirmed product configuration	
Cable Len	Subject to project requirements	
Jacket Mate	Subject to confirmed product configuration	
Optical Perfor	Subject to connector type, fiber type, polish type, assembly quality, and test conditions	
Operating Temp	Subject to cable jacket material and connector configuration	
RoHS Compl	Compliance documents available upon request	

Specifications are subject to connector type, fiber mode, cable jacket, cable configuration, and project requirements. Confirm with project specifications.

8. Applications

- ODF and fiber distribution frame patching
- Fiber optic patch panel connection
- Telecom room fiber equipment interconnection
- Data center structured cabling
- FTTH access network connection
- ONT / ONU / subscriber terminal equipment connection
- Indoor fiber optic distribution and patching
- Test equipment fiber connection

9. Design Notes

- Patch cord is a connectorized cable assembly with cable length, not an adapter or passive alignment component
- Different from fast connector, which is a field-installed termination component without fixed cable length
- Different from pigtail, which has one connector end and one bare fiber end for splicing
- Different from PLC splitter, which splits optical power into multiple output ports
- Different from attenuator, which intentionally reduces optical power by a fixed value
- FTTA outdoor patch cord is a separate product category for outdoor FTTA / base station applications

10. Installation Notes

- Route cable with minimum bend radius per cable specifications
- Do not exceed connector maximum insertion / extraction force
- Secure cable at both ends to prevent connector stress
- Perform optical testing after installation to verify performance

11. Handling & Cleaning Notes

- Keep dust caps on connectors when not in use
- Clean connector end faces using appropriate cleaning tools before mating
- Avoid exceeding cable minimum bend radius during handling and installation
- Do not pull on connector boots to move or position cable assembly
- Store cable assemblies in clean, dry environment before deployment

12. Configuration Options

Fiber optic patch cords are available in the following configuration examples, subject to confirmed product range and project requirements:

Fiber Type	Description
SC / SC Simplex	SC both ends, simplex, project-specified fiber type and length
LC / LC Duplex	LC both ends, duplex, project-specified fiber type and length
FC / FC Simplex	FC both ends, simplex, project-specified fiber type and length
ST / ST Simplex	ST both ends, simplex, project-specified fiber type and length

13. Installation Guidance

- Select connector type matching equipment interface and patch panel
- Select cable construction (simplex or duplex) matching fiber count
- Confirm cable length meets routing distance with appropriate slack
- Verify fiber mode (single-mode or multimode) matching network requirements
- Test optical performance before and after installation

14. Product Comparison & Reference

Patch Cord vs Adapter

Parameter	Patch Cord	Adapter
Function	Cable assembly with connectors + cable length	Passive coupler / alignment component
Cable Length	Included	None

Patch Cord vs Fast Connector

Parameter	Patch Cord	Fast Connector
Function	Factory-terminated cable assembly	Field-installed termination component
Cable Length	Included	No fixed cable length

Patch Cord vs Pigtail

Parameter	Patch Cord	Pigtail
Connectors	Both ends connectorized	One end connector, one end bare fiber
Note	Complete cable assembly	Splice-termination component

Patch Cord vs PLC Splitter / Attenuator

Parameter	Patch Cord	PLC Splitter / Attenuator
Function	Optical connection cable link	Optical power splitting or reduction

15. Customization Options

- Connector type and end-face configuration per project
- Fiber mode, polish type, and fiber count per application
- Cable diameter, jacket material, cable construction per environment
- Cable length per project routing distance
- Packaging per project or shipping requirements

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