

MapleArashi

Fiber Optic Cable Manufacturer

SC Patch Cord



SC Connector Structure



SC Fiber Optic Patch Cord

SC Connector | Cable Assembly | UPC / APC Options

SC Connectorized Cable Assembly | Simplex / Duplex | SM / MM

SC fiber optic patch cords are connectorized cable assemblies designed for optical connection between SC-compatible equipment ports, ODFs, patch panels, terminal boxes, wall outlets, telecom rooms, FTTH access networks, and fiber distribution systems. Available configurations may include SC/SC or SC hybrid connector options, UPC/APC polish, single-mode or multimode fiber, simplex or duplex cable construction, 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	SC Fiber Optic Patch Cord
Model	SC/SC, SC hybrid, UPC/APC, and project-specified configurations
Category	Components & Accessories - Fiber Optic Patch Cords
Structure	SC connectorized fiber optic cable assembly with cable jacket, connector ends, ferrules, boots, and dust caps

This specification is for reference only. Connector configuration, 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	SC Fiber Optic Patch Cord
Model	SC/SC, SC hybrid, UPC/APC, and project-specified configurations
Category	Components & Accessories - Fiber Optic Patch Cords
Structure	SC connectorized fiber optic cable assembly with cable jacket, connector ends, ferrules, boots, and dust caps
Connector Type	SC/SC or SC 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 / FTTH terminal box / ONT / telecom room / SC-interface equipment interconnection

2. Company Profile

Maplearashi Technology, with 20 years of expertise in fiber optic communication, manufactures SC fiber optic patch cords in our facility located in the Guangdong-Hong Kong-Macao Greater Bay Area. These SC connectorized cable assemblies are designed for optical connection between SC-compatible equipment ports, ODFs, patch panels, terminal boxes, FTTH access networks, and telecom rooms. 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

SC fiber optic patch cords are connectorized cable assemblies designed for optical connection between SC-compatible equipment ports, ODFs, patch panels, terminal boxes, wall outlets, telecom rooms, FTTH access networks, and fiber distribution systems. Configurations may include SC/SC or SC hybrid connector options, UPC/APC polish, single-mode or multimode fiber, simplex or duplex cable construction, and project-specified cable lengths. The cable assembly incorporates optical fiber within a cable jacket, terminated with SC-series connectors, 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

- SC connectorized fiber optic cable assembly for ODF, patch panel, and equipment patching
- SC/SC or SC hybrid connector 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 using SC interface
- Fiber optic patch panel connection with SC adapters
- FTTH terminal box to ONT / ONU connection
- Telecom room SC-based fiber interconnection
- Indoor fiber distribution and patching using SC connectors
- SC-interface equipment and test equipment connection

6. Installation Benefits

- Pre-terminated SC cable assembly reduces field termination time
- Connectorized SC ends provide plug-and-play installation with SC adapters
- Simplex and duplex options allow flexible deployment configurations
- SC push-pull connector design facilitates easy insertion and removal

7. Technical Specifications

7.1. General Specifications

Layer	Component	Material / Function
Connector T	SC/SC or SC hybrid options, subject to confirmed product range	
Polish Ty	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 Mat	Subject to confirmed product configuration	
Optical Perform	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 using SC interface
- Fiber optic patch panel SC adapter patching
- FTTH terminal box to ONT / ONU connection
- Telecom room SC-based fiber equipment interconnection
- Indoor fiber distribution and patching
- SC-interface test equipment connection
- Maintenance and replacement of SC fiber optic links

9. Design Notes

- SC Patch Cord is an SC-connector-focused cable assembly within the patch cord product family
- Different from general Patch Cord which covers SC, LC, FC, ST, and MPO connector families broadly
- Different from adapter, which is a passive alignment component without cable length
- Different from fast connector, which is a field-installed termination component without fixed cable length
- Different from SC pigtail, which has one SC connector end and one bare fiber end for splicing
- Different from PLC splitter or attenuator, which handle optical power splitting or reduction
- 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
- Verify SC connector latch is fully engaged after mating
- Perform optical testing after installation to verify performance

11. Handling & Cleaning Notes

- Keep dust caps on SC connectors when not in use
- Clean SC 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

SC 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 connector both ends, single-fiber simplex, project-specified fiber type and length
SC / SC Duplex	SC connector both ends, two-fiber duplex, project-specified fiber type and length
SC / LC Hybrid	SC one end, LC other end, project-specified fiber type and length
SC / FC Hybrid	SC one end, FC other end, project-specified fiber type and length
Custom Configuration	Project-specified SC connector configuration, fiber type, cable jacket, and cable length

13. Installation Guidance

- Select SC connector configuration matching equipment and patch panel interfaces
- Select cable construction (simplex or duplex) matching fiber count requirement
- Confirm cable length meets routing distance with appropriate slack
- Verify SC polish type (UPC or APC) matching network equipment requirements
- Test optical performance before and after installation for verification

14. Product Comparison & Reference

SC Patch Cord vs General Patch Cord

Parameter	SC Patch Cord	General Patch Cord
Focus	SC connector-based cable assemblies	SC, LC, FC, ST, MPO broad family
Note	SC-focused product series	Broad connector-family product series

SC Patch Cord vs Adapter

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

SC Patch Cord vs Fast Connector

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

SC Patch Cord vs SC Pigtail

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

SC Patch Cord vs PLC Splitter / Attenuator

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

15. Customization Options

- SC connector configuration and opposite-end connector type per project
- SC polish type, fiber mode, and fiber count per application
- Cable diameter, jacket material, cable construction per installation environment
- Cable length per project routing distance
- Packaging per project or shipping requirements

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