

# MapleArashi

Fiber Optic Cable Manufacturer

## FTTA Waterproof Connector



## Connector Structure Diagram



## FTTA Outdoor Waterproof Fiber Optic Connector FTTA Connection | Waterproof | Ruggedized

[Outdoor Ruggedized Connector](#) | [FTTA / Base Station](#) | [RRU / AAU](#) | [IP-rated Options](#)

FTTA outdoor waterproof fiber optic connectors are ruggedized connector solutions designed for outdoor telecom equipment connection, FTTA base station links, RRU / AAU connection, outdoor cabinets, and harsh-environment fiber optic applications. Connector interface, cable compatibility, waterproof protection level, optical performance, housing design, locking structure, and assembly length are subject to confirmed product configuration and project requirements.

Product	FTTA Outdoor Waterproof Fiber Optic Connector
Model	Subject to confirmed connector type / FTTA connector series
Category	Components & Accessories - Outdoor Waterproof Fiber Optic Connectors
Structure	Ruggedized waterproof connector housing with optical connector interface, sealing structure, locking mechanism, b

*This specification is for reference only. Connector type, interface, cable compatibility, protection rating, and optical performance are subject to confirmed product configuration and project requirements.*

## 1. Product Information

Field	Specification
Product	FTTA Outdoor Waterproof Fiber Optic Connector
Model	Subject to confirmed connector type / FTTA connector series
Category	Components & Accessories - Outdoor Waterproof Fiber Optic Connectors
Structure	Ruggedized waterproof connector housing with optical connector interface, sealing structure, locking mechanism, boot, and dust cap
Connector Interface	Subject to confirmed product configuration
Fiber Type	Single-mode / multimode, subject to project requirements
Polish Type	UPC / APC, subject to connector type
Cable Compatibility	Subject to cable diameter, cable structure, and product configuration
Protection Rating	Subject to confirmed product configuration
Application	FTTA / base station / RRU / AAU / outdoor equipment connection / harsh-environment fiber link

## 2. Company Profile

Maplearashi Technology, with 20 years of expertise in fiber optic communication, manufactures FTTA outdoor waterproof fiber optic connectors in our facility located in the Guangdong-Hong Kong-Macao Greater Bay Area. These ruggedized outdoor connector solutions are designed for FTTA base station links, RRU/AAU connection, outdoor cabinets, and harsh-environment fiber optic applications. Connector interface, protection rating, cable compatibility, and optical performance are subject to confirmed product configuration. Compliance documents available upon request.

## 3. Product Overview

FTTA outdoor waterproof fiber optic connectors are ruggedized connector solutions designed for outdoor telecom equipment connection, FTTA base station links, RRU / AAU connection, outdoor cabinets, and harsh-environment fiber optic applications. The connector system incorporates a ruggedized waterproof housing, sealing structure, locking mechanism, boot, and dust cap to provide protected optical connection under moisture, dust, vibration, and installation stress conditions. Depending on the confirmed product configuration, the connector may be supplied as a connector body, field-installable connector, or connectorized cable assembly. Connector interface, cable compatibility, protection rating, and assembly length are subject to project requirements and confirmed product configuration.

## 4. Key Features

- Ruggedized outdoor waterproof connector design for FTTA and outdoor equipment connection
- Sealing structure and locking mechanism for protection under moisture and dust conditions
- Compatible with single-mode and multimode fiber, subject to connector type and project requirements
- UPC and APC polish options, subject to connector type
- Cable compatibility subject to cable diameter, cable structure, and product configuration
- May be supplied as connector body or connectorized cable assembly depending on configuration

## 5. Recommended Use

- FTTA base station fiber connection
- RRU / AAU / BBU equipment optical connection
- Outdoor telecom equipment cabinet fiber interface
- Wireless access network outdoor fiber link
- Tower-side fiber connection
- Industrial and harsh-environment fiber optic connection

## 6. Installation Benefits

- Ruggedized housing protects optical connection in outdoor environments
- Sealing structure reduces moisture and dust ingress
- Locking mechanism provides secure connection under vibration conditions
- Field-installable or factory-terminated options depend on product configuration

## 7. Technical Specifications

### 7.1. General Specifications

Layer	Component	Material / Function
Connector Int		Subject to confirmed product configuration
Fiber Typ		Single-mode / multimode, subject to project requirements
Polish Typ		UPC / APC, subject to connector type
Cable Comp		Subject to cable diameter, cable structure, and product configuration
Protection R		Subject to confirmed product configuration
Optical Perfor		Subject to connector type, polish type, assembly quality, and test conditions
Operating Tem		Subject to connector model and material configuration
RoHS Compl		Compliance documents available upon request

*Specifications are subject to confirmed product configuration, connector type, cable compatibility, and project requirements. Confirm with project specifications.*

## 8. Applications

- FTTA base station fiber connection
- RRU and AAU optical interface
- BBU equipment-side fiber termination
- Outdoor telecom cabinet cable entry
- Wireless access network outdoor fiber link
- Tower-to-ground fiber connection
- Industrial outdoor and harsh-environment fiber optic link

## 9. Design Notes

- FTTA outdoor waterproof connector is a ruggedized outdoor connector system, not an ordinary indoor fast connector
- Protection rating and environmental performance are subject to confirmed product configuration
- Connector interface type depends on product configuration and project requirements
- Cable compatibility depends on cable diameter, jacket material, and connector model
- If supplied as a connectorized cable assembly, cable type and length are subject to project specifications
- Not a standard patch cord unless confirmed; general patch cord structure is not assumed

## 10. Outdoor Installation Notes

- Install connector in accordance with product instructions for outdoor environments
- Verify sealing components and O-ring are properly seated before installation
- Tighten locking mechanism to required torque per manufacturer specification
- Use appropriate weatherproof sealing methods at cable entry points
- Avoid exceeding cable minimum bend radius during outdoor routing
- Perform optical testing after installation to verify performance

## 11. Handling & Cleaning Notes

- Keep dust caps on connector ends when not in use
- Clean connector end faces using appropriate cleaning tools before mating
- Inspect sealing surfaces and O-ring for damage before installation
- Store connectors in clean, dry environment before deployment
- Do not use abrasive materials on connector interfaces

## 12. Connector Options

FTTA outdoor waterproof fiber optic connectors may be available in the following configuration options, subject to confirmed product range and project requirements:

Fiber Type	Description
Connector Body	Ruggedized connector housing with optical interface, sealing structure, locking mechanism, boot, and dust cap
Connectorized Cable	FTTA connector with specified cable type, cable length, and connectors per project requirements
Field-Installable Vers	Field assembly connector body with compatible cable entry, subject to connector design

## 13. Installation Guidance

- Confirm connector interface type and polish compatibility with mating equipment
- Verify cable diameter and jacket material compatibility with connector cable entry
- For connectorized cable assemblies, confirm cable type, cable length, and connector configuration
- Install connector with appropriate tools and procedures for outdoor waterproof applications
- Test optical performance after installation using suitable test equipment
- Record assembly and test data for traceability

## 14. Product Comparison & Reference

FTTA Waterproof Connector vs Fast Connector

Parameter	FTTA Waterproof Connector	Fast Connector
Design	Ruggedized outdoor waterproof connector system	Field assembly connector for fiber termination
Environment	Outdoor equipment connection, harsh environments	Indoor / FTTH access termination
Protection	Waterproof and dust protection per product config	Not necessarily waterproof
Note	Outdoor ruggedized connector solution	Field termination connector

FTTA Waterproof Connector vs Adapter

Parameter	FTTA Waterproof Connector	Adapter
Function	Outdoor connector interface or connectorized assembly	Connects two existing connectors
Design	Ruggedized waterproof outdoor connector	Passive panel-mount alignment component
Note	Outdoor connector system	Indoor/ODF panel component

FTTA Waterproof Connector vs Patch Cord

Parameter	FTTA Waterproof Connector	Patch Cord
Configuration	May be connector body or connectorized assembly per conf	Cable assembly with connectors on both ends
Cable Length	Subject to product configuration	Fixed cable length
Note	Outdoor connector solution	General cable assembly

FTTA Waterproof Connector vs PLC Splitter / Attenuator

Parameter	FTTA Waterproof Connector	PLC Splitter / Attenuator
Function	Outdoor connector / interface system	Optical power splitting or reduction
Note	Provides outdoor fiber connection	Power division or reduction device

## 15. Customization Options

- Connector interface per project requirements
- Cable type, diameter, and assembly length per project specifications
- Connector polish, protection rating, housing material, color, and marking per customer specification
- Packaging per project or shipping requirements

### Maplearashi

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