

Pre-Connectorized FTTH Drop Cable

Opti to Mini SC | Reinforced Outdoor | G657A1 Fiber



Product Overview:

The Pre-Connectorized FTTH Drop Cable (Opti to Mini SC) is a plug-and-play fiber optic solution designed for fast and reliable last-mile connections in FTTH networks.

This pre-terminated fiber optic cable enables direct interconnection between Opti hardened interfaces and Mini SC/APC connectors, eliminating the need for field splicing while ensuring stable optical performance in GPON and XGS-PON systems.

Key Features:

- **Opti to Mini SC Connector Conversion**
Enables seamless connection between different FTTH connector standards
- **Plug-and-Play Installation**
Factory-terminated design reduces installation time by up to 50%
- **Reinforced Outdoor Structure**
Armored cable with 5.0 mm TPU jacket for harsh environments
- **High Compatibility**
Compatible with Opti hardened connectors and Mini SC/APC interfaces
- **Bend-Insensitive G657A1 Fiber**
Ensures stable performance in tight routing conditions

Shenzhen Spring Optical Communication CO., LTD

Website: www.springoptical.com

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- **Low Loss Performance**

Low insertion loss and high return loss for reliable signal transmission

Connector Configuration

Type	Side A	Side B
Type A	Mini SC/APC Female	Opti SC/APC Male
Type B	Opti SC/APC Female	Mini SC/APC Male

One cable supports bidirectional configurations, reducing SKU complexity and inventory cost.

Applications

- FTTH last-mile connection (CTO to subscriber)
- Fiber distribution and terminal boxes
- Outdoor pre-terminated FTTH systems
- Network access points
- Opti to Mini SC connector conversion scenarios
- FTTH network expansion and upgrade projects

Technical Specifications

Parameter	Specification
Connector Type	Opti & Mini SC/APC
Fiber Type	Single-mode G657A1
Cable Structure	Armored Drop Cable
Outer Diameter	5.0 mm TPU Jacket
Insertion Loss	< 0.2 dB (Typical), < 0.3 dB (Max)
Return Loss	> 65 dB
Tensile Strength	250 N
Protection Level	IP68
Operating Temperature	-40 ~ +70 °C
Standard Length	40 cm (Customizable)

Performance & Benefits

Parameter	Pre-Connectorized Cable	Field Splicing
Installation Time	Fast	Slow
Labor Requirement	Low	High
Installation Consistency	High	Variable
Error Risk	Low	High
Total Cost	Lower	Higher

Provides faster deployment, improved reliability, and reduced operational cost.

Deployment Advantages

- Eliminates fusion splicing in the field
- Reduces installation errors and training requirements
- Simplifies FTTH deployment in multi-vendor environments
- Improves efficiency for large-scale ISP rollout projects

Regional Optimization (Latin America)

This cable is optimized for FTTH broadband deployments in Latin America:

- Compatible with regional ISP network architectures
- Supports mixed connector environments
- Suitable for urban, suburban, and rural deployment
- Reduces installation time by up to 50% in real projects

Quality Assurance

- 100% factory tested for Insertion Loss (IL) and Return Loss (RL)
- End-face inspection compliant with industry standards
- Strict production quality control
- Reliable performance for long-term deployment

Ordering Information (Optional Customization)

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- Cable length (customized)
- Connector type and gender (Opti / Mini SC)
- Cable structure (armored / non-armored)
- Packaging and labeling (serialization available)

Manufacturer Advantages

- Professional FTTH cable manufacturer
- Extensive experience in global FTTH projects
- Strong R&D and customization capability
- Technical support for ODN design and deployment