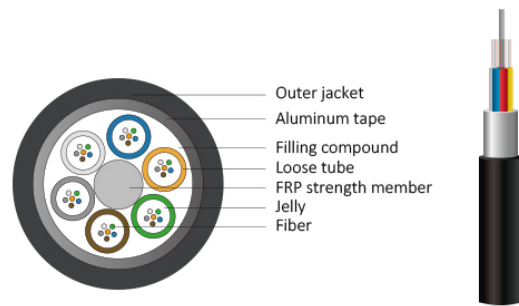
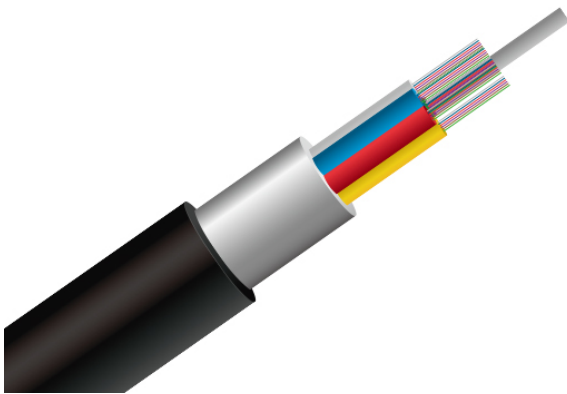


# MapleArashi

Fiber Optic Cable Manufacturer

## Stranded Loose Tube Cable - GYFTA

## Cable Structure - GYFTA



## GYFTA Outdoor Stranded Loose Tube

## Fiber Optic Cable — Non-Metallic CSM, APL Moisture Barrier

Stranded Loose Tube | Non-Metallic Central Strength Member | APL Moisture Barrier | PE Outer Sheath

GYFTA is an outdoor stranded loose tube fiber optic cable with a non-metallic central strength member and APL aluminum-polyethylene laminated moisture barrier, designed for outdoor duct, backbone, and distribution applications, subject to project requirements and cable design confirmation. Optical fibers are placed inside water-blocking filled loose tubes stranded around the central strength member. The APL moisture barrier and PE outer sheath provide enhanced moisture resistance and outdoor environmental protection. Final cable parameters are subject to project requirements and confirmed cable design.

Product	GYFTA
Model	GYFTA
Category	Outdoor Fiber Cables - Stranded Loose Tube Cables
Structure	Stranded loose tube cable with non-metallic CSM, APL moisture barrier, PE sheath

*This specification is for reference only. Final cable design parameters are subject to project requirements and manufacturing feasibility.*

## 1. Product Information

Field	Specification
Product	GYFTA
Model	GYFTA
Category	Outdoor Fiber Cables - Stranded Loose Tube Cables
Structure	Stranded loose tube cable with non-metallic central strength member, APL moisture barrier, and PE outer sheath
Fiber Type	Single-mode G.652D or G.657A1; subject to project requirements
Number of Fibers	Subject to final cable design and project requirements
Central Strength Member	Non-metallic (FRP or equivalent), subject to final cable design
Moisture Barrier	APL aluminum-polyethylene laminated tape
Sheath Material	PE outer sheath, subject to project requirements
Water-Blocking	Filling compound and water-blocking material, subject to final cable design
Application	Duct / backbone / outdoor distribution / project-confirmed installation environments

## 2. Company Profile

Maplearashi Technology, with 20 years of expertise in fiber optic communication, manufactures GYFTA stranded loose tube fiber optic cables with non-metallic central strength members and APL moisture barriers in our facility located in the Guangdong-Hong Kong-Macao Greater Bay Area. The non-metallic CSM design is suitable for projects requiring dielectric central strength, while the APL moisture barrier enhances long-term cable reliability in outdoor environments. Compliance documents available upon request.

## 3. Product Overview

GYFTA is an outdoor stranded loose tube fiber optic cable with a non-metallic central strength member and APL aluminum-polyethylene laminated moisture barrier, subject to project requirements and cable design confirmation. Optical fibers are placed inside water-blocking filled loose tubes stranded around the central strength member. The APL layer provides enhanced moisture resistance compared to non-APL designs, while the PE outer sheath delivers outdoor environmental protection for backbone, duct, and distribution networks.

## 4. Key Features

- Stranded loose tube design for flexible fiber management in outdoor routes
- Non-metallic central strength member for dielectric central strength requirements
- APL aluminum-polyethylene laminated moisture barrier for enhanced long-term moisture resistance
- Water-blocking filled loose tubes and cable core filling for longitudinal water protection
- PE outer sheath for outdoor environmental protection
- Available in standard single-mode fiber types per project requirements

## 5. Technical Specifications

### 5.1. Cable Structure

Layer	Component	Material / Function
1	Optical Fiber	Single-mode G.652D or G.657A1; subject to project requirements
2	Loose Tubes (PBT)	Filled PBT loose tubes stranded around central strength member
3	Tube Filling	Water-blocking filling compound
4	Central Strength Member	Non-metallic (FRP or equivalent), subject to final cable design
5	Cable Core Filling	Water-blocking material in cable core interstices
6	Moisture Barrier	APL aluminum-polyethylene laminated tape
7	Outer Sheath	PE (polyethylene), UV-resistant, subject to project requirements

*Material and design details can be adjusted according to fiber count, tube layout, and project needs.*

## 6. Applications

- Outdoor duct and conduit installations requiring moisture protection
- Backbone networks and trunk routes in metropolitan networks
- Campus backbone and outdoor distribution links
- Outdoor installations where non-metallic central strength member is preferred
- Project-confirmed installation environments requiring APL moisture barrier protection

## 7. Design Notes

- Mechanical parameters subject to final cable design
- APL layer provides moisture barrier but is not equivalent to steel tape armor
- Not designed for default 53 armored double-sheath requirements unless confirmed
- Not designed for self-supporting aerial installation (consider ADSS or Figure-8 cable options)
- GYFTA uses APL moisture barrier. GYFTY uses PE sheath structure without APL as defining feature.
- GYFTA uses a non-metallic central strength member. GYTA uses a metallic central strength member.

## 8. Fiber Options

Fiber Type	Description
G.652D	Standard single-mode fiber — ITU-T G.652.D standard
G.657A1	Bend-insensitive fiber — ITU-T G.657.A1 standard
Custom	Other fiber types available per project requirements

## 9. Installation Guidance

- Installation temperature and pulling tensions subject to project-specific cable design
- Minimum bend radius during installation: refer to project-specific datasheet
- Not designed for self-supporting aerial installation (consider ADSS or Figure-8 cable options)
- Direct burial requires project-specific cable design confirmation

## 10. Model Comparison & Reference

### GYFTA vs GYTA

Parameter	GYFTA	GYTA
CSM Material	Non-metallic (FRP or equivalent)	Metallic (steel or equivalent)
Moisture Barrier	APL	APL
Structure	Stranded loose tube	Stranded loose tube
Note	GYFTA and GYTA are separate models	See separate GYTA specification

### GYFTA vs GYFTY

Parameter	GYFTA	GYFTY
Moisture Barrier	APL aluminum-polyethylene laminated	PE sheath / non-APL design
CSM	Non-metallic	Non-metallic
Structure	Stranded loose tube	Stranded loose tube
Note	GYFTA and GYFTY are separate models	See separate GYFTY specification

### GYFTA vs GYXTW

Parameter	GYFTA	GYXTW
Tube Type	Stranded loose tube	Central loose tube
Moisture Barrier	APL	Subject to design variant
CSM	Non-metallic	Subject to design variant
Note	GYFTA and GYXTW are separate models	See separate GYXTW specification

## 11. Customization Options

- Fiber type and count per project requirements
- Tube count, tube color, and fiber distribution per tube
- Sheath marking, meter marking, and cable color
- Alternative sheath materials subject to project requirements
- Drum length and packaging per project or shipping requirements

### Maplearashi

MapleArashi | [maplearashi.com](http://maplearashi.com)

Email: [sales@maplearashi.com](mailto:sales@maplearashi.com) | WhatsApp: +86 189 9307 0653

Shenzhen Maplearashi Technology Co., Ltd. | Guangdong-Hong Kong-Macao Greater Bay Area, China