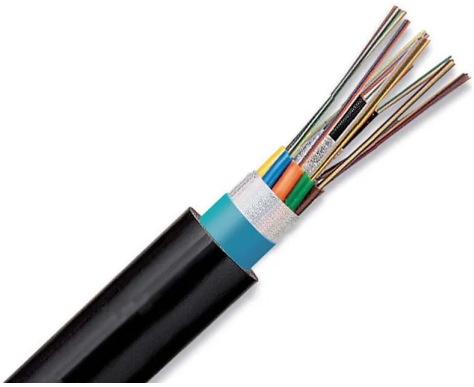
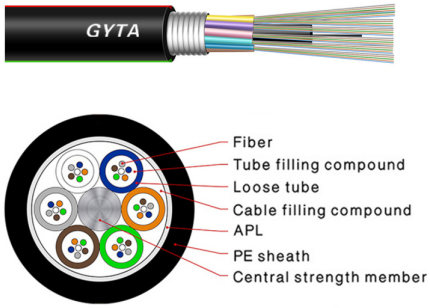
MapleArashi

Fiber Optic Cable Manufacturer

Stranded Loose Tube Cable - GYTA



Cable Structure - GYTA



GYTA Outdoor Stranded Loose Tube Fiber Optic Cable — Metallic CSM, APL Moisture Barrier

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

GYTA is an outdoor stranded loose tube fiber optic cable with a metallic central strength member and APL aluminum-polyethylene laminated moisture barrier. Optical fibers are placed inside water-blocking filled loose tubes stranded around the central strength member. The APL layer and PE outer sheath provide moisture resistance and outdoor environmental protection, while final cable parameters remain subject to project requirements and confirmed cable design.

Product	GYTA
Model	GYTA
Category	Outdoor Fiber Cables - Stranded Loose Tube Cables
Structure	Stranded loose tube cable with 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	GYTA
Model	GYTA
Category	Outdoor Fiber Cables - Stranded Loose Tube Cables
Structure	Stranded loose tube cable with metallic CSM, 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	Metallic CSM, 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 GYTA stranded loose tube fiber optic cables with metallic central strength members and APL moisture barriers in our facility located in the Guangdong-Hong Kong-Macao Greater Bay Area. The metallic CSM provides robust central strength, while the APL moisture barrier enhances long-term cable reliability in outdoor environments. Compliance documents available upon request.

3. Product Overview

GYTA is an outdoor stranded loose tube fiber optic cable with a 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
- Metallic central strength member for robust central strength
- 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 M	Metallic CSM, 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 requiring metallic central strength member
- 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 for aerial routes
- GYTA uses APL moisture barrier. GYTS uses steel tape/PSP armor.
- GYTA uses a metallic central strength member. GYFTA uses a non-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

GYTA vs GYFTA

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

GYTA vs GYTS

Parameter	GYTA	GYTS
Moisture Barrier / Armor	APL aluminum-polyethylene tape	Steel tape / PSP armor
CSM	Metallic	Metallic
Structure	Stranded loose tube	Stranded loose tube
Note	GYTA and GYTS are separate models	See separate GYTS specification

GYTA vs GYTA53

Parameter	GYTA	GYTA53
Sheath Structure	APL + PE outer sheath	APL + inner PE + steel tape + outer PE
Armor Type	Moisture barrier only	53 double-sheath armored
Note	GYTA and GYTA53 are separate models	See separate GYTA53 specification

GYTA vs GYXTW

Parameter	GYTA	GYXTW
Tube Type	Stranded loose tube	Central loose tube
Moisture Barrier / Armor	APL moisture barrier	Subject to design variant
CSM	Metallic	Subject to design variant
Note	GYTA 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

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