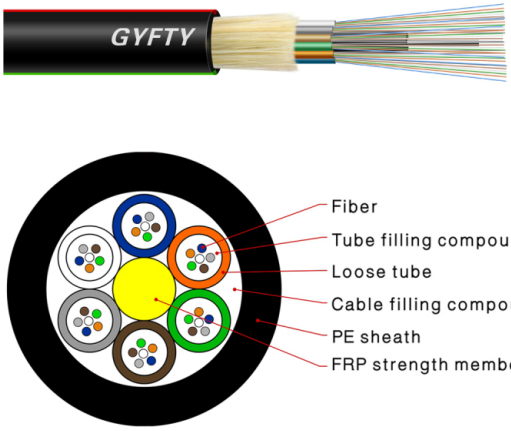
GYFTY Outdoor Stranded Loose Tube Non-Metallic Fiber Optic Cable

GYFTY

Stranded Loose Tube | Non-Metallic Strength Member | PE Outer Sheath



Product Photo *Cable Structure Diagram*

Product	GYFTY Outdoor Stranded Loose Tube Fiber Optic Cable
Model	GYFTY
Structure	Stranded Loose Tube Non-Armored Design
Strength Member	Non-metallic central strength member, usually FRP, subject to final cable design
Armor / Protection	Non-armored structure, subject to final cable design
Sheath	PE outer sheath, subject to project requirements
Category	Outdoor Stranded Loose Tube Fiber Optic Cable
Application	Duct / Outdoor access / Feeder / Aerial routes with external support
Company	Maplearashi
Website	www.maplearashi.com

Technical parameters are subject to the final cable design and project specifications. Contact Maplearashi for project-specific data.

1. Company Profile

Maplearashi is a fiber optic cable manufacturer serving global communication networks. With experience across outdoor, FTTH, and indoor communication cable products, Maplearashi provides OEM/ODM solutions for telecommunication carriers, system integrators, and broadband infrastructure projects.

2. Product Overview

GYFTY is an outdoor stranded loose tube fiber optic cable designed for communication routes requiring non-metallic central strength member design and standard outdoor cable construction. A typical structure includes optical fibers inside filled loose tubes, stranded loose tube cable core around a non-metallic central strength member, cable filling or water-blocking materials, and a PE outer sheath. Fiber type, fiber count, tube layout, sheath material, and mechanical performance should be confirmed according to the final cable design and project requirements.

3. Cable Structure

Optical Fiber	G.652D / G.657 / multimode / custom per project
Filled Loose Tubes	Filled loose tubes for fiber protection
Tube Filling	Water-blocking compound or dry material, subject to design
Water Blocking	Water-blocking or cable filling material, subject to design
Central Strength Member	Non-metallic, usually FRP, subject to final cable design
Outer Sheath	PE outer sheath, subject to project requirements

4. Key Features

- Stranded loose tube structure for outdoor communication routes
- Non-metallic central strength member, usually FRP, subject to final cable design
- PE outer sheath suitable for outdoor cable environments
- Tube filling and cable filling / water-blocking design for moisture protection
- Suitable for duct, outdoor access, feeder, and aerial routes with external support
- Fiber type, fiber count, tube layout, sheath material, marking, and drum length can be customized
- Designed for projects requiring stranded loose tube construction without heavy armor protection

5. Design Notes

- GYFTY is designed as a stranded loose tube cable for outdoor communication routes requiring non-metallic central strength member
- The final cable construction may vary according to fiber count, installation environment, and project requirements
- Strength member type, sheath material, cable marking, and drum length should be confirmed before production
- For aerial routes, external support should be used according to the installation design

6. Installation Guidance

- For duct installation, cable pulling force and bending radius should be controlled according to the final cable design
- For outdoor access routes, cable sheath, marking, and drum length should be confirmed before production
- For aerial installation, GYFTY should be installed with external support instead of being used as a self-supporting cable
- For project supply, final cable structure and test requirements should be confirmed according to the application environment

7. Fiber Options

GYFTY can be designed with the following fiber types. The final fiber selection depends on the project requirements, transmission distance, and network design.

Fiber Type	Description
G.652D	Standard single-mode fiber for access, metro, and long-haul networks
G.657A1 / A2	Bend-insensitive single-mode fiber
OM1–OM4 (MM)	Multimode fiber for short-reach links
Custom fiber	Available upon request

8. Applications

- Outdoor duct communication routes
- Outdoor access and feeder networks
- Metro access network routes
- Campus backbone communication routes
- Industrial communication routes
- Aerial installation with external support
- Outdoor routes requiring non-metallic central strength member
- Projects requiring stranded loose tube construction without heavy armor protection

9. Model Comparison

The following comparisons highlight key structural differences between GYFTY and similar outdoor cable types.

Feature	GYFTY	GYFTY53
Cable Core	Stranded loose tube	Stranded loose tube
Strength Member	Non-metallic (FRP)	Non-metallic (FRP)
Armor	Non-armored	53 double-sheath + armor
Sheath	Single PE outer sheath	Inner PE + outer PE (double, 53)
Application	Duct / aerial with support	Direct-buried / heavy outdoor

Feature	GYFTY	GYTA
Cable Core	Stranded loose tube	Stranded loose tube
Strength Member	Non-metallic (FRP)	Metallic CSM
Moisture Barrier	No default APL	APL / aluminum-polyethylene tape
Protection	Non-armored	Steel tape / PSP (subject to design)
Application	Non-metallic / standard outdoor	Outdoor backbone / duct

Feature	GYFTY	GYTS
Cable Core	Stranded loose tube	Stranded loose tube
Strength Member	Non-metallic (FRP)	Metallic CSM (usually steel wire)
Armor	Non-armored	Steel tape armor
Sheath	Single PE outer sheath	PE outer sheath (subject to design)
Application	Non-metallic / standard outdoor	Duct / outdoor / armored routes

Feature	GYFTY	GYXTY
Cable Core	Stranded loose tube	Central loose tube
Strength Member	Non-metallic (FRP)	Subject to design
Fiber Count	Higher (multi-tube stranded)	Lower (single tube)
Protection	Non-armored	Non-armored
Application	Outdoor duct / feeder / aerial with support	Outdoor duct / indoor-outdoor / aerial with support

10. Customization Options

- Fiber type: G.652D, G.657A1/A2, multimode, or customer-specified
- Fiber count: subject to cable design and project requirements
- Tube layout and number of tubes: subject to fiber count and project design
- Sheath type and cable marking: subject to project environment and customer requirement
- Drum length and packaging: subject to project or shipping requirements
- Strength member type and material: subject to final cable design and project environment

11. Mechanical & Environmental Parameters

Mechanical and environmental parameters (tensile strength, crush resistance, bending radius, temperature range) are determined by the cable design and project environment. Refer to project datasheet for specific values.

12. Compliance

Applicable standards and compliance requirements should be confirmed according to the project specification. Compliance documentation, test reports, or project-specific declarations can be provided upon request where required.

13. Contact Information

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