

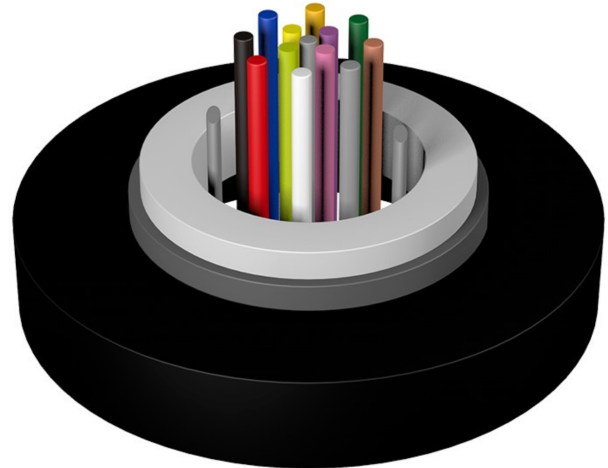
# GYFXTY Outdoor Central Loose Tube Non-Metallic Non-Armored Fiber Optic Cable

# GYFXTY

GYFXTY | Central Loose Tube | Non-Metallic Non-Armored Design



Product Photo



Cable Structure Diagram

|                           |  |
|---------------------------|--|
| <b>Product</b>            | GYFXTY   |
| <b>Model</b>              | GYFXTY   |
| <b>Structure</b>          | Central Loose Tube — Non-Metallic Non-Armored Design                             |
| <b>Strength Member</b>    | Non-metallic central strength member, usually FRP, subject to final cable design |
| <b>Armor / Protection</b> | Non-armored structure, subject to final cable design                             |
| <b>Sheath</b>             | PE outer sheath, subject to project requirements                                 |
| <b>Category</b>           | Outdoor Central Loose Tube Fiber Optic Cable                                     |
| <b>Application</b>        | Duct / Outdoor access / Feeder   |
| <b>Company</b>            | Maplearashi  |
| <b>Website</b>            | <a href="http://www.maplearashi.com">www.maplearashi.com</a>                     |

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

GYFXTY is an outdoor central loose tube fiber optic cable designed for communication routes requiring a non-metallic central strength member and non-armored design. A typical structure includes optical fibers inside a central loose tube with tube filling, water-blocking or cable filling materials around the tube, a non-metallic central strength member (usually FRP), filling elements and binders as needed, and a PE outer sheath. Fiber type, fiber count, sheath material, strength member design, 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                                  |
| Central Loose Tube         | Filled loose tube 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                      |
| Strength Member            | Non-metallic central strength member, usually FRP, subject to final cable design |
| Filling Elements + Binders | Cable filling elements and binders as needed, subject to final cable design      |
| Outer Sheath               | PE outer sheath, subject to project requirements                                 |

## 4. Key Features

- Compact central loose tube structure for outdoor communication routes
- Non-metallic central strength member design, usually FRP, for routes requiring all-dielectric or non-metallic cable construction
- Non-armored design for lightweight, flexible, and cost-effective installation
- PE outer sheath suitable for outdoor cable environments
- Tube filling and water-blocking design for moisture protection
- Suitable for duct, outdoor access, and indoor-outdoor transition routes
- Fiber type, fiber count, sheath material, cable marking, and drum length can be customized
- Designed for projects requiring lightweight cable without steel tape or PSP armoring

## 5. Design Notes

- GYFXTY is designed as a non-armored central loose tube cable for lightweight outdoor communication routes
- The final cable construction may vary according to fiber count, installation environment, and project requirements
- Sheath material, cable marking, and drum length should be confirmed before production
- GYFXTY does not include steel tape (GYXTS) or PSP (GYXTW) protection layers

## 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 outdoor access routes, cable sheath and marking should be confirmed according to installation requirements
- For project supply, final cable structure and test requirements should be confirmed according to the application environment

## 7. Fiber Options

GYFXTY is an outdoor central loose tube fiber optic cable designed for communication routes requiring a non-metallic central strength member and non-armored design. A typical structure includes optical fibers inside a central loose tube with tube filling, water-blocking or cable filling materials around the tube, a non-metallic central strength member (usually FRP), filling elements and binders as needed, and a PE outer sheath. Fiber type, fiber count, sheath material, strength member design, and mechanical performance should be confirmed according to the final cable design and project requirements.

| 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   |

*Fiber type selection requires project-specific datasheet. Contact Maplearashi for the recommended fiber type for your project.*

## 8. Applications

- Outdoor duct communication routes
- Outdoor access and feeder networks
- Campus backbone communication routes
- Industrial communication routes
- Lightweight communication routes where non-armored cable is sufficient

*GYFXTY is not designed for ADSS self-supporting installations, figure-8 messenger configurations, or applications requiring steel tape armor, PSP protection, or APL moisture barrier. For armored designs, refer to GYXTW53 or GYTA53. For self-supporting designs, refer to ADSS or GYXTC8S.*

## 9. Model Comparison

GYFXTY is an outdoor central loose tube fiber optic cable designed for communication routes requiring a non-metallic central strength member and non-armored design. A typical structure includes optical fibers inside a central loose tube with tube filling, water-blocking or cable filling materials around the tube, a non-metallic central strength member (usually FRP), filling elements and binders as needed, and a PE outer sheath. Fiber type, fiber count, sheath material, strength member design, and mechanical performance should be confirmed according to the final cable design and project requirements.

Note: GYFXTY is a central loose tube, non-metallic, non-armored cable. It is not designed for ADSS self-supporting aerial applications, figure-8 messenger configurations, or applications requiring steel tape armor (PSP).

| Feature            | GYFXTY   | GYXTS  |
|--------------------|--|--|
| Cable Core         | Central loose tube                                     | Central loose tube                                     |
| Armor / Protection | None — non-armored                                     | Steel tape / steel-polyethylene                        |
| Sheath             | PE outer sheath (single)                               | PE outer sheath (single)                               |
| Protection Level   | Lightweight / standard                                 | Enhanced / moderately armored                          |
| Application        | Duct / indoor-outdoor / outdoor access                 | Duct / outdoor access / aerial with support            |
| Feature            | GYFXTY   | GYXTW  |
| Cable Core         | Central loose tube                                     | Central loose tube                                     |
| Protection         | None — PE only   | Steel-polyethylene composite / PSP                     |
| Sheath             | PE outer sheath (single)                               | PE outer sheath (single)                               |
| Protection Level   | Lightweight / standard                                 | Enhanced waterproof + mechanical                       |
| Application        | Duct / indoor-outdoor / outdoor access                 | Duct / outdoor access / aerial with support            |
| Feature            | GYFXTY   | GYXTW53  |
| Cable Core         | Central loose tube                                     | Central loose tube                                     |
| Sheath             | PE outer sheath (single)                               | Inner PE + outer PE (53)                               |
| Protection         | None — non-armored                                     | PSP / corrugated steel tape                            |
| Protection Level   | Lightweight  | Heavy-duty (53)  |
| Application        | Duct / indoor-outdoor                                  | Duct / direct-buried / heavy access                    |
| Feature            | GYFXTY   | GYFTY  |
| Cable Core         | Central loose tube                                     | Stranded loose tube (multiple tubes)                   |
| Strength Member    | Non-metallic central CSM (usually FRP)                 | Non-metallic central CSM (usually FRP)                 |
| Armor / Protection | Non-armored (no steel tape, no PSP)                    | Non-armored (no steel tape, no PSP)                    |
| Sheath             | PE outer sheath  | PE outer sheath  |
| Fiber Count Range  | Generally lower (single tube design)                   | Generally higher (multi-tube design)                   |
| Typical Use        | Outdoor access / duct with compact profile             | Outdoor backbone / duct with higher fiber requirements |
| Feature            | GYFXTY   | ADSS   |
| Cable Core         | Central loose tube                                     | Stranded loose tube                                    |
| Strength Member    | Non-metallic central CSM (usually FRP)                 | Non-metallic central CSM (usually FRP)                 |
| Installation       | Duct / outdoor access                                  | Aerial self-supporting (no messenger needed)           |
| Self-Supporting    | Duct / outdoor access only — requires external support | Designed for self-supporting aerial spans              |
| Sheath             | PE outer sheath  | PE outer sheath (ADSS-specific grade)                  |

## 10. Customization Options

- Fiber type: G.652D, G.657A1/A2, multimode, or customer-specified
- Fiber count: subject to cable design and project requirements
- Sheath specification: subject to final cable design
- Sheath type and cable marking: subject to project environment and customer requirement
- Drum length and packaging: subject to project or shipping requirements

## 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.

- Tensile strength: depends on cable design, fiber count, and strength member configuration; subject to project datasheet
- Crush resistance: depends on sheath design and cable construction; subject to project datasheet
- Minimum bend radius: depends on cable diameter, fiber type, and installation conditions; subject to final cable design
- Operating temperature range: depends on sheath material and project environment; subject to final cable design
- Cable diameter and weight: depend on fiber count, tube design, and sheath material; subject to project datasheet
- Temperature cycle, water penetration, and aging performance: subject to final design and applicable standards

## 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

### **Maplearashi**

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