

GYXTY Outdoor Central Loose Tube Non-Armored Fiber Optic Cable

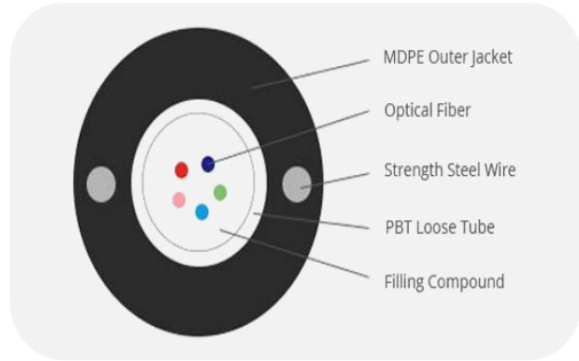
GYXTY

Central Loose Tube | Non-Armored Design | PE Outer Sheath

Non-Armored Duct Cable-GYXTY



Inner Structure-GYXTY



Product Photo

Cable Structure Diagram

Product	GYXTY Outdoor Central Loose Tube Non-Armored Fiber Optic Cable
Model	GYXTY
Structure	Central Loose Tube — Non-Armored Design
Strength Member	Subject to final cable design
Protection	Non-armored design (no steel tape, no PSP), subject to final design
Sheath	PE outer sheath, subject to project requirements
Category	Outdoor Central Loose Tube Fiber Optic Cable
Application	Duct / Outdoor access / 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

GYXTY is an outdoor central loose tube fiber optic cable designed for lightweight, non-armored outdoor communication routes. A typical structure includes optical fibers inside a filled central loose tube, tube filling or water-blocking materials, strength elements subject to final cable design, and a PE outer sheath. GYXTY is a non-armored cable suitable for duct networks, indoor-outdoor transitions, and aerial routes with external support. Fiber type, fiber count, strength member design, 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
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	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-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, indoor-outdoor transitions, and aerial routes with external support
- 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

- GYXTY 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
- For aerial routes, external support should be used according to the installation design
- GYXTY 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 aerial installation, GYXTY 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

GYXTY 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 (multimode)	Multimode fiber for short-reach links
Custom fiber	Available upon request

8. Applications

- Outdoor duct communication routes
- Outdoor access and feeder networks
- Indoor-outdoor cable transition points
- Campus backbone communication routes
- Industrial communication routes
- Aerial installation with external support
- Lightweight communication routes where non-armored cable is sufficient

9. Model Comparison

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

Feature	GYXTY	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 / aerial with support	Duct / outdoor access / aerial with support
Feature	GYXTY	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 / aerial with support	Duct / outdoor access / aerial with support
Feature	GYXTY	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

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.

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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