

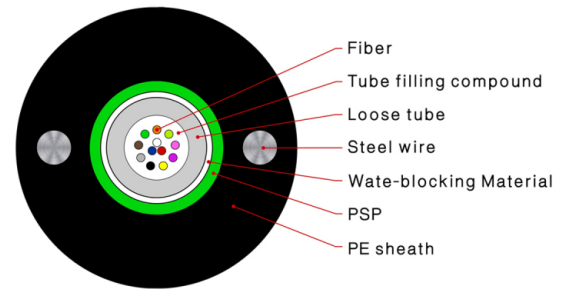
GYXTW Outdoor Central Loose Tube Fiber Optic Cable

GYXTW

Central Loose Tube | Steel-Polyethylene Protection | PE Outer Sheath



Product Photo



Cable Structure Diagram

Product	GYXTW Outdoor Central Loose Tube Fiber Optic Cable
Model	GYXTW
Structure	Central Loose Tube with Steel-Polyethylene Protection
Strength Member	Subject to final cable design
Protection	Steel-polyethylene composite tape / PSP protection, subject to final cable 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

GYXTW is an outdoor central loose tube fiber optic cable designed for compact communication routes requiring moisture protection and mechanical reinforcement. 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, steel-polyethylene composite tape or PSP protection, and a PE outer sheath. 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
Protection Layer	Steel-polyethylene composite tape or PSP protection, subject to design
Outer Sheath	PE outer sheath, subject to project requirements

4. Key Features

- Compact central loose tube structure for outdoor communication routes
- Steel-polyethylene composite tape or PSP protection for enhanced mechanical performance
- PE outer sheath suitable for outdoor cable environments
- Tube filling and water-blocking design for moisture protection
- Suitable for duct, outdoor access, and aerial routes with external support
- Fiber type, fiber count, sheath material, armor structure, marking, and drum length can be customized
- Designed for projects requiring compact structure with stronger protection than non-armored central tube cables

5. Design Notes

- GYXTW is designed as a compact central loose tube cable for outdoor communication routes
- The final cable construction may vary according to fiber count, installation environment, and project requirements
- Protection layer, 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, GYXTW 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

GYXTW 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
- Campus backbone communication routes
- Industrial communication routes
- Aerial installation with external support
- Compact communication routes requiring steel-polyethylene composite protection

9. Model Comparison

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

Feature	GYXTW	GYXTW53
Cable Core	Central loose tube	Central loose tube
Sheath	PE outer sheath (single)	Inner PE + outer PE (double, 53)
Protection	Steel-polyethylene composite tape / PSP	PSP / corrugated steel tape
Protection Level	Enhanced	Heavier (53 structure)
Application	Duct / aerial with support	Duct / direct-buried / heavy access
Feature	GYXTW	GYTA53
Cable Core	Central loose tube	Stranded loose tube
Moisture Barrier	Not APL-based / subject to design	APL / aluminum-polyethylene tape
Protection	Steel-polyethylene composite tape / PSP	PSP / corrugated steel tape
Sheath	PE outer sheath	Inner PE + outer PE (53)
Application	Outdoor access / duct / aerial with support	Outdoor backbone / duct / direct-buried

10. Customization Options

- Fiber type: G.652D, G.657A1/A2, multimode, or customer-specified
- Fiber count: subject to cable design and project requirements
- Protection layer and 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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