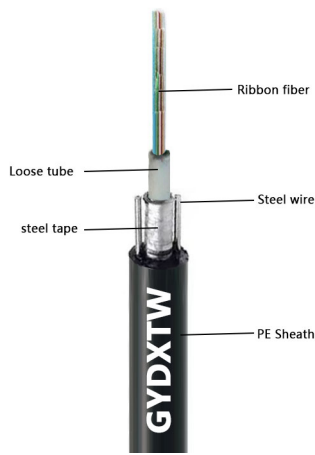


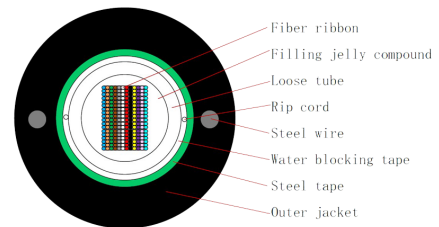
# MapleArashi

Fiber Optic Cable Manufacturer

## Ribbon Fiber Central Loose Tube Cable - GYDXTW



## Cable Structure - GYDXTW



## GYDXTW Outdoor Central Loose Tube Ribbon Fiber Optic Cable

[Central Loose Tube](#) | [Ribbon Fiber Structure](#) | [PE Outer Sheath](#) | [Project-Confirmed Armor Design](#)

GYDXTW is an outdoor central loose tube ribbon fiber optic cable designed for compact duct, outdoor distribution, and project-confirmed installation environments. Optical fiber ribbons are placed inside a water-blocking filled central loose tube, providing high fiber density and efficient mass fusion splicing in a compact cable diameter. The outer PE sheath and steel tape / PSP armor, subject to final structure confirmation, provide mechanical and environmental protection. Final cable parameters are subject to project requirements and confirmed cable design.

|           |   |
|-----------|---|
| Product   | GYDXTW  |
| Model     | GYDXTW  |
| Category  | Outdoor Fiber Cables - Ribbon Fiber Cables  |
| Structure | Central loose tube ribbon fiber cable; armor and strength members subject to final cable design |

*This specification is for reference only. Final cable design parameters are subject to project requirements and manufacturing feasibility.*

## 1. Product Information

| Field            | Specification   |
|------------------|---|
| Product          | GYDXTW  |
| Model            | GYDXTW  |
| Category         | Outdoor Fiber Cables - Ribbon Fiber Cables                                |
| Structure        | Central loose tube ribbon fiber cable, subject to final cable design      |
| Fiber Type       | Single-mode G.652D or G.657A1; subject to project requirements            |
| Number of Fibers | Subject to final cable design and project requirements                    |
| Sheath Material  | PE outer sheath, subject to project requirements                          |
| Armor Type       | Steel tape / PSP, subject to final structure confirmation                 |
| Strength Member  | Parallel strength members, subject to final cable design                  |
| Application      | Duct / outdoor distribution / project-confirmed installation environments |

## 2. Company Profile

Maplearashi Technology, with 20 years of expertise in fiber optic communication, manufactures GYDXTW central loose tube ribbon fiber optic cables in our facility located in the Guangdong-Hong Kong-Macao Greater Bay Area. The central loose tube design with ribbon fiber structure enables compact cable dimensions and efficient mass fusion splicing for outdoor duct and distribution applications. Compliance documents available upon request.

## 3. Product Overview

GYDXTW is an outdoor central loose tube ribbon fiber optic cable, subject to project requirements and cable design confirmation. Optical fiber ribbons are placed inside a water-blocking filled central loose tube, providing high fiber density and efficient mass fusion splicing in a compact diameter. The outer PE sheath and steel tape / PSP armor, subject to final structure confirmation, provide mechanical and environmental protection for outdoor duct and distribution routes.

## 4. Key Features

- Central loose tube design for compact cable diameter and simplified splicing
- Ribbon fiber structure for high-density fiber deployment in outdoor distribution networks
- Optical fiber ribbons inside a water-blocking filled central loose tube
- Steel tape / PSP armor for additional mechanical protection, subject to final structure confirmation
- Parallel strength members for enhanced tensile performance, subject to final cable design
- Mass fusion splicing support for faster deployment compared to individual fiber splicing
- PE outer sheath for outdoor environmental protection

## 5. Technical Specifications

### 5.1. Cable Structure

| Layer | Component          | Material / Function   |
|-------|--------------------|---|
| 1     | Optical Fiber      | Optical fiber ribbons (ribbon fiber), subject to project requirements     |
| 2     | Central Loose Tube | Water-blocking filled central loose tube containing optical fiber ribbons |
| 3     | Tube Filling       | Water-blocking filling compound   |
| 4     | Strength Members   | Parallel strength members, subject to final cable design                  |
| 5     | Water-Blocking     | Water-blocking material   |
| 6     | Aarmor             | Steel tape / PSP, subject to final structure confirmation                 |
| 7     | Outer Sheath       | PE (polyethylene), subject to project requirements                        |

*Material and design details can be adjusted according to fiber count, ribbon count, and project needs.*

## 6. Applications

- Outdoor duct and conduit installations
- Outdoor distribution networks requiring compact cable design
- Metropolitan area network (MAN) distribution routes
- Access network and campus outdoor links
- Project-confirmed installation environments

## 7. Design Notes

- Ribbon fiber structure may require specialized mass fusion splicing equipment and technician training
- Mechanical parameters subject to final cable design
- Steel tape / PSP armor is subject to final structure confirmation
- Not designed for all-dielectric or self-supporting aerial installation requirements
- GYDXTW is the ribbon fiber variant of the central loose tube cable family. GYXTW is the individual fiber variant.
- This model is distinct from GYDTS — GYDXTW uses central loose tube; GYDTS uses stranded loose tube.

## 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
- Ribbon fiber handling requires appropriate mass fusion splicing tooling and technician training
- Not designed for self-supporting aerial installation (consider ADSS or Figure-8 cable options)

## 10. Model Comparison & Reference

GYDXTW vs GYXTW

| Parameter       | GYDXTW                                  | GYXTW                                    |
|-----------------|---|--|
| Fiber Structure | Ribbon fiber / optical fiber ribbons    | Individual fibers (non-ribbon)           |
| Tube Type       | Central loose tube                      | Central loose tube                       |
| Fiber Density   | Higher — ribbon stacking in single tube | Lower — individual fibers in single tube |
| Note            | GYDXTW and GYXTW are separate models    | See separate GYXTW specification         |

GYDXTW vs GYDTS

| Parameter       | GYDXTW                                     | GYDTS                                  |
|-----------------|--|--|
| Fiber Structure | Ribbon fiber / optical fiber ribbons       | Ribbon fiber / optical fiber ribbons   |
| Tube Type       | Central loose tube                         | Stranded loose tube                    |
| Cable Diameter  | Compact — single tube                      | Larger — multiple stranded tubes       |
| Armor Design    | Steel tape / PSP (subject to confirmation) | Steel tape / PSP                       |
| Application     | Duct / outdoor distribution                | Backbone / duct / outdoor distribution |

## 11. Customization Options

- Fiber type and count per project requirements
- Ribbon count and fiber-per-ribbon configuration
- 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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