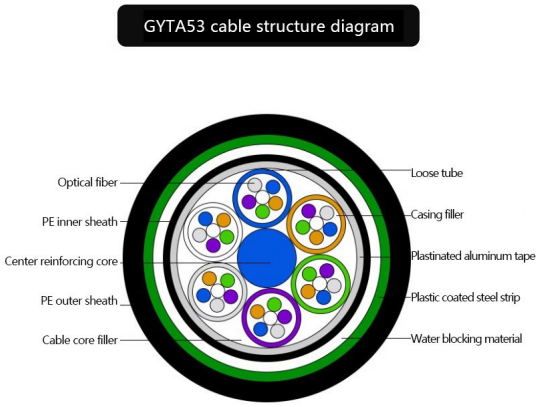
Outdoor Fiber Optic Cable

GYTA53

Armored Stranded Loose Tube | APL Moisture Barrier | Double PE Sheath



Product Photo *Cable Structure Diagram*

Product	GYTA53 Outdoor Armored Fiber Optic Cable
Model	GYTA53
Structure	Armored Stranded Loose Tube
Strength Member	Metallic central strength member, usually steel wire, subject to final cable design
Moisture Barrier	APL / aluminum-polyethylene laminated tape, subject to final cable design
Armor	Corrugated steel tape / PSP armor, subject to final cable design
Sheath	Inner PE sheath + outer PE sheath, subject to project requirements
Category	Outdoor Armored Fiber Optic Cable
Application	Duct / Direct-buried / Outdoor backbone routes
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

GYTA53 is an outdoor armored stranded loose tube fiber optic cable with a metallic central strength member (typically steel wire), APL / aluminum-polyethylene laminated tape moisture barrier, corrugated steel tape / PSP armor, and double PE sheath. A typical structure includes stranded loose tubes around a metallic central strength member, cable filling or water-blocking materials, an APL moisture barrier, inner PE sheath, corrugated steel tape / PSP armor, and outer PE sheath. Fiber count, sheath material, armor structure, 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
Loose Tube	Filled loose tube for fiber protection
Tube Filling	Water-blocking compound or dry material, subject to design
Cable Core	Stranded loose tube cable core, subject to fiber count and tube layout
Central Strength Member	Metallic central strength member, usually steel wire, subject to final design
Cable Filling	Cable filling or water-blocking material, subject to design
Moisture Barrier	APL / aluminum-polyethylene laminated tape for moisture protection
Inner Sheath	PE inner sheath, subject to project requirements
Armor Layer	Corrugated steel tape / PSP armor for enhanced mechanical protection
Outer Sheath	PE outer sheath, subject to project requirements

4. Key Features

- Armored stranded loose tube design for outdoor cable routes
- Metallic central strength member (steel wire) for cable core reinforcement
- APL / aluminum-polyethylene laminated tape for moisture protection
- Corrugated steel tape / PSP armor for enhanced mechanical protection
- Double PE sheath structure for outdoor duct and direct-buried applications
- Tube filling and cable filling / water-blocking design for moisture protection
- Suitable for duct, direct-buried, feeder, and outdoor backbone network applications
- Fiber type, fiber count, sheath material, armor structure, marking, and drum length can be customized

5. Fiber Options

GYTA53 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 (multimoc	Multimode fiber for short-reach links
Custom fiber	Available upon request

6. Applications

- Outdoor duct communication routes
- Direct-buried fiber optic cable projects
- Outdoor backbone and feeder networks
- Metro access network routes
- Campus backbone communication routes
- Industrial communication routes
- Areas requiring enhanced moisture protection and mechanical protection
- Long-distance trunk and local area communication networks

7. Model Comparison

The following comparison highlights key structural differences between GYTA53 and similar outdoor cable types.

Feature	GYTA53	GYFTY53
Central Strength Member	Metallic (steel wire)	Non-metallic (FRP)
Moisture Barrier	APL / aluminum-polyethylene tape	Not APL-based / subject to final design
Armor Type	Corrugated steel tape / PSP	PSP / steel tape
Sheath	Inner PE + outer PE	Inner PE + outer PE
Application	Duct / direct-buried	Duct / direct-buried

Feature	GYTA53	GYTA
Armor	Corrugated steel tape / PSP (53 structure)	No armor
Sheath	Inner PE + outer PE	Single PE sheath
Moisture Barrier	APL present	APL present
Application	Duct / direct-buried	Duct / indoor trench

Feature	GYTA53	GYTS
Central Strength Member	Metallic (steel wire)	Metallic (commonly steel wire)
Moisture Barrier	APL / aluminum-polyethylene tape	Not always present
Armor Type	Corrugated steel tape / PSP	PSP / steel tape (common)
Sheath	Inner PE + outer PE	PE (single or double)
Application	Duct / direct-buried	Duct / direct-buried

8. Customization Options

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

9. 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.

10. 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.

11. Contact Information

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