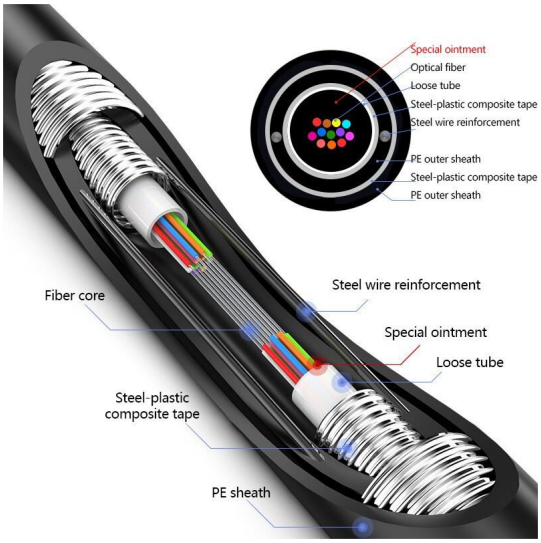
Outdoor Fiber Optic Cable

GYXTW53

Armored Central Loose Tube | Steel Tape Protection | Double PE Sheath

Product Photo



Cable Structure Diagram

Product	GYXTW53 Outdoor Armored Fiber Optic Cable
Model	GYXTW53
Structure	Armored Central Loose Tube
Strength Member	Subject to final cable design
Armor	PSP / corrugated steel tape 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 access and 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

GYXTW53 is an outdoor armored central loose tube fiber optic cable designed for communication routes requiring compact cable structure and enhanced mechanical protection. A typical structure includes optical fibers inside a central loose tube, tube filling compound, water-blocking or cable filling materials, strength elements subject to final cable design, inner PE sheath, PSP / corrugated steel tape armor, and outer PE sheath. Fiber count, sheath material, strength member design, 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
Central Loose Tube	Filled loose tube for fiber protection
Tube Filling	Water-blocking compound or dry material, subject to design
Water Blocking	Water-blocking material or cable filling material, subject to design
Strength Member	Subject to final cable design
Inner Sheath	PE inner sheath, subject to project requirements
Armor Layer	PSP / corrugated steel tape armor for enhanced mechanical protection
Outer Sheath	PE outer sheath, subject to project requirements

4. Key Features

- Compact central loose tube structure for outdoor cable routes
- PSP / corrugated steel tape armor for enhanced mechanical protection
- Double PE sheath structure for duct and direct-buried applications
- Tube filling and water-blocking design for outdoor moisture protection
- Suitable for outdoor access, feeder, duct, direct-buried, and backbone routes
- Fiber type, fiber count, strength member, sheath material, armor structure, marking, and drum length can be customized
- Designed for projects requiring compact structure with stronger protection than standard central tube outdoor cables

5. Fiber Options

GYXTW53 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 access and feeder networks
- Campus backbone communication routes
- Industrial communication routes
- Short-to-medium distance outdoor backbone networks
- Areas requiring compact cable structure and enhanced mechanical protection

7. Model Comparison

The following comparisons highlight key structural differences between GYXTW53 and similar outdoor cable types.

Feature	GYXTW53	GYXTW
Cable Core	Central loose tube	Central loose tube
Armor	PSP / corrugated steel tape, 53 structure	PSP / steel-polyethylene, subject to design
Sheath	Inner PE + outer PE	PE sheath / subject to design
Protection Level	Higher mechanical protection	Standard outdoor central tube protection
Typical Use	Duct / direct-buried / heavy-duty outdoor access	Duct / outdoor access routes

Feature	GYXTW53	GYTA53
Cable Core	Central loose tube	Stranded loose tube
Moisture Barrier	Not APL-based / subject to design	APL / aluminum-polyethylene tape
Armor	PSP / corrugated steel tape	Corrugated steel tape / PSP
Sheath	Inner PE + outer PE	Inner PE + outer PE
Typical Use	Access / duct / direct-buried	Backbone / 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

Maplearashi

sales@maplearashi.com

+86 189 9307 0653

www.maplearashi.com