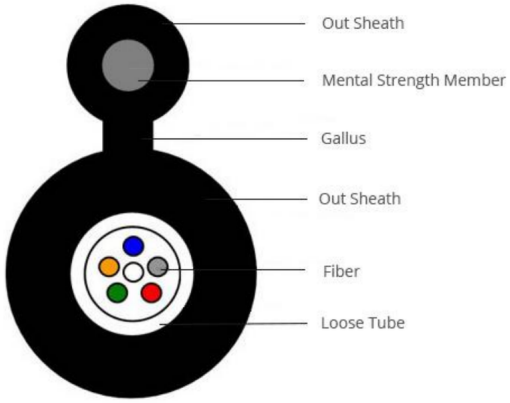
Outdoor Fiber Optic Cable

GYFXTC8Y

Figure-8 Self-Supporting Aerial | Central Loose Tube with Metal Messenger

Product Photo



Cable Structure Diagram

Product	GYFXTC8Y Outdoor Fiber Optic Cable
Model	GYFXTC8Y
Structure	Figure-8 Self-Supporting | Central Loose Tube
Support Element	Metal messenger, subject to final cable design
Sheath	PE / subject to project requirements
Category	Outdoor Aerial Fiber Optic Cable — Figure-8
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 based in Shenzhen, China, specializing in outdoor fiber optic cables, FTTH drop cables, indoor fiber optic cables, and OEM/ODM customized fiber optic cable solutions for global telecom, ISP, contractor, and distribution customers.

Website: www.maplearashi.com
Main Products: Outdoor Fiber Optic Cable, FTTH Drop Cable, Indoor Cable, OEM/ODM Custom Solutions
Service: Cable manufacturing, OEM/ODM customization, project-specific design support
Compliance documentation can be provided upon request when required for the project.

2. Product Overview

GYFXTC8Y is an outdoor figure-8 self-supporting fiber optic cable with a central loose tube cable core and an integrated metal messenger support element. The figure-8 profile combines the messenger and the cable core in a single jacket for efficient one-pass aerial installation along pole routes.

The cable is designed for aerial self-supporting installations using its integrated messenger. It is not intended for direct burial, indoor FTTH drop, or all-dielectric ADSS applications unless the final cable structure is specifically confirmed for those requirements.

3. Cable Structure

Based on the available product structure diagram, the cable construction includes the following components (innermost to outermost; exact design subject to final cable confirmation):

Layer	Component	Material / Function
1	Optical Fiber	G.652D / G.657 / custom per project
2	Loose Tube	Central loose tube for fiber protection
3	Tube Filling	Water-blocking compound or dry material, subject to design
4	Outer Jacket (Core	PE sheath around cable core
5	Connecting Web	PE web connecting core and messenger lobes
6	Messenger Sectio	Metal messenger support element
7	Messenger Sheath	PE jacket around messenger

Material and design details are subject to fiber count, span requirements, and project needs. The exact messenger material and jacket specification should be confirmed by the final cable design.

4. Key Features

- Figure-8 self-supporting design for aerial installation without separate lashing in typical aerial routes, subject to installation design
- Central loose tube construction for fiber protection and compact cable profile
- Integrated metal messenger for aerial tensile strength and span support
- Single figure-8 profile for efficient one-pass aerial deployment
- Suitable for outdoor aerial access, feeder, and distribution routes
- Fiber type and fiber count customizable based on project needs
- Water-blocking design for moisture protection in outdoor environments

5. Fiber Options

GYFXTC8Y can be manufactured with a range of fiber types. Fiber type and count should be confirmed according to project requirements and final cable design.

Fiber Type	Description
G.652D	Standard single-mode fiber for access and feeder networks
G.657A1 / A2	Bend-insensitive single-mode fiber
OM1 / OM2 / OM3 / C	Multimode fiber for short-reach links
Custom fiber	Available upon request

Default fiber type and count depend on the required cable design. Contact Maplearashi for project-specific options.

6. Applications

- Outdoor aerial self-supporting routes
- Pole-to-pole access and feeder links
- FTTx aerial deployment in suburban and rural areas
- Campus and enterprise aerial communication links
- Building-to-building outdoor aerial connections

GYFXTC8Y is designed for outdoor aerial self-supporting installation. It is not intended for direct burial, indoor FTTH drop, or all-dielectric ADSS replacement.

7. Model Comparison

The following tables differentiate GYFXTC8Y from commonly compared outdoor cable models:

Aspect	GYFXTC8Y	ADSS
Structure	Figure-8 with metal messenger	All-dielectric self-supporting
Support Element	Metal messenger	Aramid yarn / non-metallic
Metal Content	Yes (messenger)	None (all-dielectric)
Cable Profile	Figure-8 (two lobes)	Single round profile

Aspect	GYFXTC8Y	GYXTC8S
Cable Core	Central loose tube	Central loose tube
Structure	Figure-8	Figure-8
Messenger	Metal	Metal (stranded steel, visible in typical diagram)
Steel tape / PSP	Not visible in available structure diagram; confirm per final d	Subject to model design; confirm by structure
Protection Level	Standard aerial	Enhanced (steel tape protection)

Aspect	GYFXTC8Y	GYTA
Structure	Figure-8 self-supporting	Stranded loose tube
Support	Self-supporting (metal messenger)	Not self-supporting
Sheath	PE	APL + PE
Typical Application	Aerial access and distribution	Duct, conduit, backbone

8. Customization Options

Maplearashi supports OEM/ODM customization on the following aspects:

- Fiber type: G.652D, G.657A1/A2, multimode, or customer-specified
- Fiber count: subject to cable design and project requirements
- Sheath type: subject to project environment
- Messenger type: subject to final cable design
- Cable marking: as specified by customer
- Drum length: subject to project requirements
- Packaging: as per project or shipping requirements

9. Mechanical & Environmental Parameters

Mechanical and environmental parameters such as tensile strength, span length, crush resistance, bending radius, and operating temperature depend on the final cable design, messenger specification, sheath selection, and installation route.

Project-specific parameter data can be provided after receiving the following information:

- Fiber type and count
- Installation route and environment
- Required span or pole distance
- Sheath requirement
- Applicable project standards or compliance requirements

10. Compliance

Applicable standards and compliance requirements should be confirmed according to the project specification. Compliance documentation can be provided upon request when required for the project.

11. Contact Information

For inquiries, project-specific requirements, or technical support, please contact Maplearashi:

Maplearashi

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