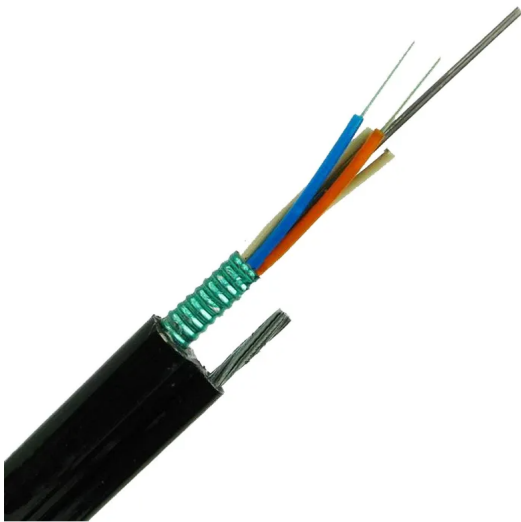


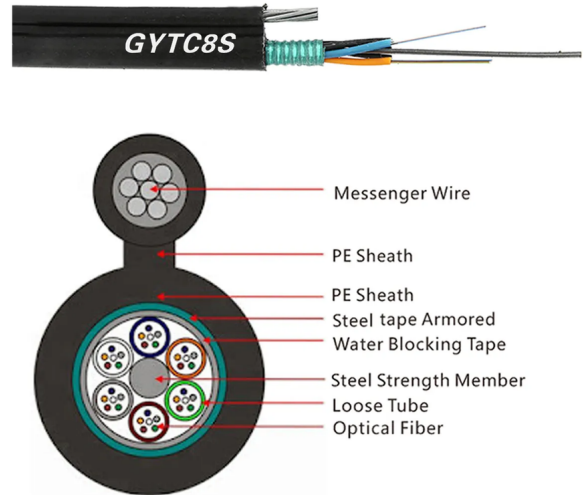
Outdoor Fiber Optic Cable

GYTC8S

Figure-8 Self-Supporting Aerial Fiber Optic Cable, Stranded Loose Tube with Steel Tape Armor



Product Photo



Cable Structure Diagram

Cable Type	GYTC8S
Cable Design	Figure-8 self-supporting, stranded loose tube
Fiber Count	Commonly available from 2 to 288, depending on cable structure, tube layout, and project requirements
Strength Member	Steel messenger wire (messenger section)
Armor Type	Steel tape armor (PSP) over cable core, subject to final cable design
Outer Sheath	Double PE (polyethylene) sheath; one over cable core, one over messenger
Installation Method	Aerial self-supporting (pole-to-pole, pole-to-building)
Application	Outdoor aerial feeder and backbone communication routes

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, with production facilities in Dongguan. With two decades of experience in the optical communication industry, the company specializes in the development and production of outdoor fiber optic cables, FTTH drop cables, indoor cabling solutions, and passive optical components.

Website: www.maplearashi.com

Main Products: Outdoor Fiber Optic Cable, FTTH Drop Cable, Indoor Cable, Patch Cord, PLC Splitter, Distribution Box

Service: Cable manufacturing, OEM/ODM customization, project-specific sourcing support

Compliance documentation can be provided upon request when required by the project specification.

2. Product Overview

GYTC8S is an outdoor figure-8 self-supporting fiber optic cable with a stranded loose tube cable core and integrated steel messenger wire. The cable core consists of multiple loose tubes stranded around a central strength member, with steel tape armor (PSP) applied over the core for mechanical protection. The messenger section provides integrated aerial support, enabling self-supporting pole-to-pole or pole-to-building installation without external catenary wire.

The figure-8 profile integrates both the cable core and the messenger into a single cohesive assembly via a web connecting the two sections, each protected by a PE outer sheath. This design is widely deployed in outdoor aerial feeder, distribution, and backbone communication networks where reliable mechanical performance and straightforward installation are required.

3. Cable Structure

Central Strength Member	FRP (Fiber-Reinforced Plastic) or equivalent dielectric material, depending on project requirements
Loose Tubes	Stranded (SZ stranding) around central strength member; tube material PBT
Fiber Type	G.652D (standard), G.657A1/A2, or other single-mode/multimode types subject to project specification
Water-Blocking	Filling compound in tube; water-blocking tape or yarn as required by design
Armor Layer	Corrugated steel tape armor (PSP) applied over stranded core
Outer Sheath (Core)	Black PE (polyethylene)
Messenger Section	Steel messenger wire with PE outer sheath
Profile	Figure-8; messenger and core connected by PE web

4. Key Features

- Figure-8 integrated design combines cable core and messenger into one assembly for simplified aerial installation
- Stranded loose tube core provides fiber isolation and reduces stress on individual fibers
- Steel tape armor layer adds mechanical protection against rodent, impact, and crushing in aerial routes
- Water-blocking construction suitable for outdoor exposure in various climate conditions
- Steel messenger wire supports self-supporting spans between poles or anchor points
- Standard PE sheath provides UV resistance and weather durability
- Available with single-mode, bend-insensitive, or multimode fiber types per project requirements
- Suitable for aerial feeder, backbone, and distribution network segments

5. Fiber Options

GYTC8S can be manufactured with a range of fiber types. Fiber type and count should be selected based on the specific transmission requirements of the project.

Fiber Type	Description
G.652D	Standard single-mode fiber for access, metro, and long-haul networks
G.657A1	Bend-insensitive single-mode fiber for tighter bend radius requirements
G.657A2	Enhanced bend-insensitive fiber, suitable for FTTH and last-mile installations
OM3/OM4	Multimode fiber for short-reach high-bandwidth applications

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

6. Applications

- Outdoor aerial self-supporting routes (pole-to-pole, pole-to-building)
- Feeder and distribution segments in telecommunication networks
- Backhaul and backbone connectivity in FTTx architectures
- Aerial installations where right-of-way or trenching is not feasible or economical
- Areas requiring armored mechanical protection for overhead fiber cabling

GYTC8S is designed for outdoor aerial self-supporting installation with steel-tape armored core. It is not intended for direct-burial, indoor FTTH drop installation, or all-dielectric ADSS applications.

7. Model Comparison

The following table compares GYTC8S with commonly compared outdoor cable models.

Aspect	GYTC8S	GYFXT8Y
Cable Core	Stranded loose tube	Central loose tube
Messenger	Steel messenger wire	Metal messenger, subject to final design
Armor	Steel tape armored	No steel tape in typical structure
Key Use	Aerial feeder / backbone	Aerial access / feeder
Aspect	GYTC8S	ADSS
Structure	Figure-8 with steel messenger	All-dielectric self-supporting
Metal Content	Yes (messenger + steel tape)	None
Support	Integrated steel messenger wire	Aramid yarn strength system
Application Focus	Aerial feeder with armored protection	Long-span all-dielectric aerial
Aspect	GYTC8S	GYTA
Installation	Self-supporting aerial	Duct / conduit / supported aerial
Profile	Figure-8	Round stranded loose tube
Support	Integrated steel messenger	External support required for aerial
Armor	Steel tape (PSP)	APL moisture barrier (standard)

8. Customization Options

- Fiber type and count (2 to 288 fibers, subject to cable design)
- Jacket material (PE standard; LSZH available upon request)
- Messenger wire gauge and construction per project span requirements
- Custom cable marking and length marking
- Packaging options (wooden drum, steel drum, or coil)
- Individual or bundled fiber color coding per project specification

9. Mechanical & Environmental Parameters

Mechanical and environmental performance parameters for GYTC8S depend on the final cable design, fiber count, sheath material, and messenger construction. Exact values should be confirmed with the project-specific datasheet.

Temperature Range (Oper	Subject to cable design; typically -40°C to +70°C for PE sheath
Temperature Range (Instal	Subject to cable design
Minimum Bend Radius (Ins	Subject to cable design; typically 20D (loaded), 10D (unloaded)
Tensile Strength (Install)	Subject to messenger and core design
Crush Resistance	Enhanced with steel tape armor; subject to final cable construction
UV Resistance	Standard black PE sheath provides UV protection for outdoor exposure

10. Compliance

GYTC8S is manufactured in accordance with commonly referenced industry standards for outdoor figure-8 self-supporting fiber optic cables and related product specifications.

- Compliant with applicable sections of IEC 60794-1 for optical fiber cable generic specification
- Compliant with applicable sections of IEC 60794-3 for outdoor communication cables
- Compliance documentation available upon request for specific standards required by the project
- RoHS compliance documentation available upon request where applicable
- CE declaration of conformity available upon request for applicable markets

11. Contact Information

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

Maplearashi

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