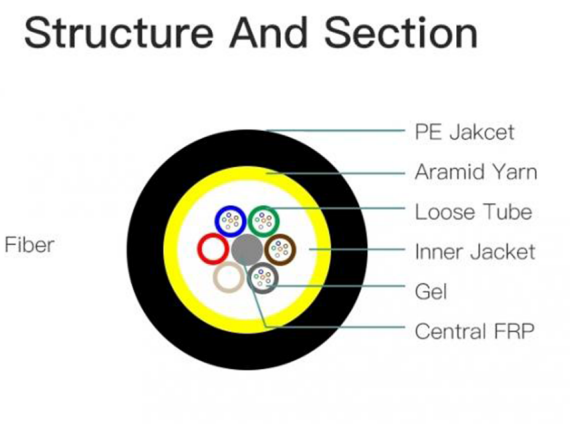
Outdoor Fiber Optic Cable

ADSS

All-Dielectric Self-Supporting Aerial Cable



Product Photo *Cable Structure Diagram*

Product	ADSS Outdoor Fiber Optic Cable
Model	ADSS
Structure	All-Dielectric Self-Supporting
Strength System	Non-metallic strength members / aramid yarn, subject to final cable design
Sheath	PE / HDPE / track-resistant sheath, subject to project requirements
Category	Outdoor Aerial Fiber Optic Cable
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 FTTH drop cables, indoor fiber optic cables, outdoor 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: FTTH Drop Cable, Indoor Cable, Outdoor Cable, Aerial Cable, Duct/Burial 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

ADSS is an all-dielectric self-supporting outdoor aerial fiber optic cable designed for pole-to-pole communication routes, power utility communication networks, and outdoor aerial telecom infrastructure. Its non-metallic strength member system and self-supporting design make it suitable for applications where metallic messenger structures are not preferred. Span length, mechanical performance, sheath type, and environmental ratings should be designed according to project requirements and final cable structure.

3. Cable Structure

The cable is constructed from the following layers (innermost to outermost):

Layer	Component	Material / Function
1	Optical Fiber	G.652D / G.657 / custom per project
2	PBT Loose Tube	Fiber protection
3	Tube Filling	Water-blocking compound or dry water-blocking material, subject to design
4	Central Strength M	FRP or non-metallic strength member, subject to final cable design
5	Cable Core	SZ-stranded loose tubes, subject to cable design
6	Water Blocking	Water-blocking yarn/tape or filling material
7	Strength Layer	Aramid yarn or non-metallic strength elements
8	Outer Sheath	PE / HDPE / track-resistant sheath, subject to project requirements

Material and design details can be adjusted according to fiber count, structure, span requirements, and project needs.

4. Key Features

- All-dielectric construction for non-metallic aerial cable routes
- Self-supporting design for pole-to-pole aerial installation without messenger wire
- Aramid yarn or non-metallic strength system for tensile support
- Suitable for outdoor aerial telecom and power utility communication routes
- Span length can be designed according to project requirements
- Sheath options available per installation environment
- Fiber type and fiber count customizable based on project needs

5. Fiber Options

ADSS can be manufactured with a range of fiber types to suit different network designs:

Fiber Type	Description
G.652D	Standard single-mode fiber
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 can be provided according to the required cable design. Contact Maplearashi for project-specific options.

6. Applications

- Power utility communication networks
- Outdoor aerial telecom backbone routes
- Pole-to-pole communication routes
- Rural broadband aerial deployment
- Highway and railway communication routes
- Campus and industrial aerial communication links
- Areas where metallic cable components are not preferred

Note: ADSS is not designed for direct burial, indoor FTTH installation, or Figure-8 messenger cable applications. For direct burial projects, consult Maplearashi for appropriate armor options.

7. Model Comparison

The following tables differentiate ADSS from commonly confused outdoor cable models:

Aspect	ADSS	GYTC8S
Structure	All-dielectric self-supporting	Figure-8 with steel messenger
Messenger	None, self-supporting	Steel messenger wire
Metal Content	None	Steel messenger
Typical Use	Power utility, telecom aerial	Telecom aerial, FTTH feeder

Aspect	ADSS	GYXTC8S
Cable Core	Stranded loose tube	Central loose tube
Structure	Self-supporting all-dielectric	Figure-8, messenger supported
Fiber Count	Subject to project requirements	Low to medium fiber counts typical
Metal Content	None	Steel messenger

Aspect	ADSS	GYTA
Structure	All-dielectric self-supporting	Stranded loose tube, APL sheath
Installation	Self-supporting aerial	Duct / conduit / lashed aerial
Strength System	Non-metallic strength elements / aramid	Steel wire or FRP + APL, subject to design
Self-Supporting	Yes	No, requires lashing or external support
Typical Use	Aerial backbone, power utility communication	Duct, backbone, general outdoor routes

OPGW is a specialty power line cable and is not the same product category as ADSS.

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 project requirements
- Sheath type: PE / HDPE / track-resistant (AT), per project environment
- Span length: designed according to project specifications
- 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, span requirement, installation route, wind load, ice load, and sheath selection.

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

- Required span length
- Installation route and environment
- Wind speed and ice load, if applicable
- Sheath requirement
- Fiber type and count
- Electric field environment, if near power lines

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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Website: www.maplearashi.com