

Self-supporting optical cable gyac



Article Overview

GYAC/GYAX series self-supporting optical cables are figure-8 aerial fiber cables designed for outdoor deployment, combining optical transmission and mechanical support in a single compact structure.

Cable Structure and Materials

These cables feature a figure-8 design, where one part houses the optical fibers in a loose tube made of high-modulus plastic filled with water-blocking gel, and the other part serves as a messenger for mechanical support, typically a steel wire or FRP rod . The loose tube is armored with aramid yarns for tensile strength, and the entire assembly is protected by a PE or aluminum-polyethylene sheath . Some variants include double jackets or flame-retardant LSZH options for enhanced protection .

Fiber Types and Capacity

The GYAC/GYAX series supports single-mode (G.652D, G.657.A1, G.655D) and multimode fibers (OM3, OM4), with core counts ranging from 2 to 288 fibers . Fibers are color-coded for easy identification, and the loose tube design ensures minimal microbending and mechanical stress during installation .

Applications

These cables are ideal for aerial installations in both urban and rural environments, serving as backbone feeder lines, last-mile access networks, and subscriber connections . The figure-8 design allows self-supporting deployment between poles,...

Article Content

Jul 28, 2026

ALL-DIELECTRIC SELF-SUPPORTING OPTICAL CABLE (ADSS)

Application ADSS (All-Dielectric Self-Supporting) cables are designed to be laid near medium-voltage lines (12KV-25KV). One of the

Nov 18, 2025

Flat-shape & Self-supporting Uni-tube Optical Cable (GYFXBY)

Products Flat-shape & Self-supporting Uni-tube Optical Cable (GYFXBY) Optical fibres are housed in a loose tube that is made of

Feb 24, 2026

GYXTC8S Figure 8 self-supporting Center Tube Optical Cable

GYXTC8S self-Supporting Outdoor Aerial Figure 8 Fiber Optical Cable is suitable for installation in aerial environment for long haul

Aug 08, 2025

Top Fiber Questions: Suspending Self-Supporting Fiber

Each self-supporting fiber cable will have its own specification for maximum span length. Most self-supporting fiber

Apr 01, 2026

SOLO All-Dielectric Self-Supporting Cables 2-288 Fibers

teria ANSI/ICEA S-87-640 SOLO® ADSS Cable, 72-Fibers Corning SOLO® cables are all-dielectric, self-supporting

Jan 13, 2026

GJYXFCH self-support Flat Drop Cable | Spring Optic

Product Description Figure-8 Aerial Drop Cable is self-supporting cable, with the cable fixed to a steel wire, designed for easy and

Jun 23, 2026

(All-dry) Self-supporting Figure-8 Optical Cable

(All-dry) Self-supporting Figure-8 Optical Cable (GYFC8S) Optical fibres are housed in loose tubes that are

Oct 21, 2025

Figure-8 Self-supporting Uni-tube Optical Cable (GYAXTC8Y ...

Optical fibres are housed in a loose tube that is made of high-modulus plastic and filled with tube filling compound. The tube is

Jan 14, 2026

Self-supporting Bow-type Drop Optical Cable(GJYXFCH/GJYXCH)

Description The typical GJYXFCH/GJYXCH self-supporting bow-type drop optical cable consists of GJXFH/GJXH cable and an

Oct 19, 2025

Self-supporting Flat Drop Cable GJYXECH | FS

Self-supporting Flat Drop Cable GJYXFCH Self-supporting FTTH drop cable is constructed with one or two single- mode fiber

Dec 19, 2025

GYTC8S Self-supporting Aerial Optical Cable

Loose tube style, figure-8 optical fiber cable with metallic central strength member of steel wire/strand and

Feb 09, 2026

Fiber Optic Cable ADSS Leading Manufacturer Excellent Quality

Fiber Optic Cable ADSS, full name is a full dielectric self-supporting. The ZMS all-media self-supporting fiber optic cable ADSS is a

Sep 23, 2025

Self-supporting Figure 8 Cable (GYFTC8A)

Self-supporting Figure 8 Cable (GYFTC8A) Cable Description Features and Applications High tensile strength Self-supporting aerial

May 20, 2026

AERIAL SELF-SUPPORT CABLE RANGE

PRODUCT DETAILS AERIAL SELF-SUPPORT CABLE RANGE YOA Cable offers a range of aerial self-support cables which are

Jan 05, 2026

A Deep Dive into Self Support Cable

A self support cable is a specialized type of fiber optical cable that integrates its own load-bearing elements, allowing it to be installed

Jun 21, 2026

Installation of Solo® ADSS All-Dielectric Self-Supporting Fiber Optic ...

General .1 . This procedure provides general information for installing all Corning Optical Communications Solo® ADSS All-Dielectric

Jul 30, 2025

Self-supporting Aerial Fiber Optic Cable – GYTC8A

Tubes and fillers are stranded around the strength member into a compact and circular cable core. After an Aluminum Polyethylene

Mar 30, 2026

All Dielectric Self-supporting Double Sheath Aerial Cable (ADSS

Features and Applications High tensile strength All dielectric structure Suitable for long span self-supporting aerial installation

Apr 04, 2026

GYTC8S Figure 8 Self Supporting Aerial Fiber Optic Cable

GYTC8S is a typical self supporting outdoor fiber optic cable with features of moisture resistance and crush resistance suitable for

Apr 02, 2026

Drop Optical Cable Bow-type Self -Supporting

The Nitrotel drop cable self-supporting bow-type consists of a drop cable and an additional stranded steel wire messenger. Options

Contact Us

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