

# Outdoor Optical Cable Network Cable Specifications Table



## Overview

Indoor/Outdoor and Outdoor Cable Assemblies Corning Optical Communications reserves the right to improve, enhance, and modify the features and specificatio.

## Key Takeaways

Outdoor fiber optic cables are designed to withstand environmental extremes, with variations in construction, strength members, and installation methods depending on the application.

| Cable Type                             | Fiber Count   | Construction                                  | Strength Member                 | Jacket Material   | Installation Method                                    | Environmental Tolerance                                         |
|----------------------------------------|---------------|-----------------------------------------------|---------------------------------|-------------------|--------------------------------------------------------|-----------------------------------------------------------------|
| GYTS (Loose Tube, Steel Wire Strength) | 2-144 fibers  | Stranded loose-tube with central steel wire   | Central steel wire              | PE (Polyethylene) | Duct, aerial (with messenger), direct burial (armored) | UV, moisture, temperature -40°C to +70°C, mechanical stress     |
| ADSS (All-Dielectric Self-Supporting)  | 2-96 fibers   | Dielectric core with aramid yarn and FRP rods | Aramid yarn (Kevlar equivalent) | UV-resistant PE   | Aerial, self-supporting on power lines                 | UV, wind load, temperature extremes, no electrical interference |
| Loose Tube Gel-Filled                  | 2-144 fibers  | Fibers in gel-filled buffer tubes             | FRP rods or steel wires         | PE or LSZH        | Duct, aerial, direct burial                            | Moisture-resistant, crush-resistant, -40°C to +70°C             |
| Armored Outdoor Cable                  | 2-144 fibers  | Loose tube or tight-buffered with steel armor | Steel tape or wire armor        | PE                | Direct burial, duct                                    | Rodent-resistant, crush-resistant, UV and moisture protection   |
| Ribbon Fiber Outdoor Cable             | 12-288 fibers | Ribbon fibers in loose tube or central tube   | FRP rods or aramid yarn         | PE                | Duct, aerial, direct burial                            | High-density, UV and moisture resistant, temperature extremes   |

**Additional Notes**

- Environmental Standards: Outdoor cables must comply with IEC 60794-1-2 for mechanical, environmental, and optical testing to ensure durability in outdoor conditions ( ).

- **Installation Considerations:** Cables can be installed in ducts, microducts, aerially on poles, or directly buried. Microducts allow high-density installations with air-blown or jetted micro cables ( ).
- **Temperature and UV Resistance:** Outdoor cables are engineered to withstand temperature cycling, UV exposure, and humidity, which indoor cables cannot tolerate ( ).
- **Mechanical Protection:** Armored and steel-strength cables are used in high-risk environments, such as direct burial or areas with rodent activity, while ADSS cables are preferred for aerial installations without metal interference ( ). This table provides a comprehensive reference for selecting outdoor optical cables based on fiber count, construction, strength, jacket material, installation method, and environmental tolerance, helping ensure reliable performance in harsh outdoor conditions.

## Article Content

### Indoor/Outdoor and Outdoor Cable Assemblies

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### Outdoor Fiber Optic Cable: Types, Specifications & Selection | Opelink

Drawing on IEC standards and industry research data, it outlines the coverage of mainstream outdoor fiber optic

### Product Specification Sheets

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### Outside Plant Fiber Optic Cable

Fiber optic cables for outdoor applications are engineered to withstand the more demanding conditions seen outside, from

### Specifications For Fiber Optic Networks

Specifications For Fiber Optic Networks Per current standards and specs, maximum supportable distances and attenuation for

### Outdoor Network Cable Guide for Reliable Installations

Fiber optic cables are an excellent choice for outdoor networks that require long-distance data transmission or operate in high

### Outdoor Fiber Optic Cables China Manufacturer

These cables are engineered for long-distance communication, FTTx backhaul, and smart city infrastructure. With ShengWei OEM

### Optical Fiber Cables for Indoor/Outdoor Applications

The cables should be easy to terminate and must be available in fiber counts required by the network architecture.

What you need to know about outdoor cable types

Fiber optic cables are extensively used in outdoor telecommunications infrastructure for

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Understanding and Specifying Optical-Fiber Cables | EC&M

Understanding and Specifying Optical-Fiber Cables Structured cabling specifications ensure you purchase and install

### CORNING OPTICAL COMMUNICATIONS GENERIC

1.0 General Considerations 1.1 The cable shall meet all requirements stated in this specification. The cable is designed and tested to

### Choosing Your Flavor of Fiber Optic Cable: Outdoor Applications

Proper cable selection is critical to the intended long term performance of the communications network. Outdoor cables are designed

### Fiber Optic Cable Size Chart: Complete Guide

Fiber optic cable size chart with complete guide to core, cladding, and jacket dimensions, types, and specifications for

### Fiber Outside Plant Cables

Fiber Outside Plant Cables CommScope outside plant fiber optic cables are meticulously designed to withstand the rigors of outdoor

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Outdoor Fiber Optic Cable: Installation & Selection Guide

Outdoor fiber optic cable is engineered for environmental extremes that indoor cables are not designed to withstand.

#### OSP (Outside Plant) Fiber Optic Cable Assemblies

RLH pre-terminated OSP cables are designed for permanent installation in almost any outdoor environment, and is suitable for

#### Fiber Optic Cable Catalog

The ANSI/TIA-568.2-D standard specifies the performance requirements of all network components and defines interoperability base

#### Indoor Outdoor Fiber Optic Cables

View all indoor and outdoor fiber optic cables we carry. OS2, OM1-OM4 fiber optic cables with LC/LC,

#### A Practical Guide to Choosing Outdoor Fiber Optic Cables

Discover the best outdoor fiber optic cables for your network needs. Learn about different cable types, including loose

#### Fiber Optic Cable

The Fibertronix line of Singlemode, stranded, loose tube, armored, direct burial fiber optic cables feature a central steel wire which

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