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.Key Outdoor Cable Types and SpecificationsCable TypeFiber CountConstructionStrength MemberJacket MaterialInstallation MethodEnvironmental ToleranceGYTS (Loose Tube, Steel Wire Strength)2–144 fibersStranded loose-tube with central steel wireCentral steel wirePE (Polyethylene)Duct, aerial (with messenger), direct burial (armored)UV, moisture, temperature -40°C to +70°C, mechanical stressADSS (All-Dielectric Self-Supporting)2–96 fibersDielectric core with aramid yarn and FRP rodsAramid yarn (Kevlar equivalent)UV-resistant PEAerial, self-supporting on power linesUV, wind load, temperature extremes, no electrical interferenceLoose Tube Gel-Filled2–144 fibersFibers in gel-filled buffer tubesFRP rods or steel wiresPE or LSZHDuct, aerial, direct burialMoisture-resistant, crush-resistant, -40°C to +70°CArmored Outdoor Cable2–144 fibersLoose tube or tight-buffered with steel armorSteel tape or wire armorPEDirect burial, ductRodent-resistant, crush-resistant, UV and moisture protectionRibbon Fiber Outdoor Cable12–288 fibersRibbon fibers in loose tube or central tubeFRP rods or aramid yarnPEDuct, aerial, direct burialHigh-density, UV and moisture resistant, temperature extremesAdditional Notes • Environmental Standards: Outdoor cables must comply with IEC 60794-1-2 for mechanical, environmental, and optical testing to ensure durability in outdoor conditions ( ).

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• 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.

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

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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

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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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