

Classification Table of Communication Optical Cable Installation Industry



Overview

Handbook Optical fibres, cables and systems The optical fibres are specified in ITU-T with reference to the geometrical, optical, transmission and mechanic.

Key Takeaways

The communication optical cable installation industry is classified under NAICS 237130-16, covering construction, installation, and maintenance of telecommunication systems including fiber optic cables.

Industry Classification Overview



Classification AspectDetailsNAICS Code237130-16 (Construction-Telecommunications)ScopeInstallation, maintenance, and repair of telecommunication systems, including telephone lines, fiber optic cables, and wireless communication towersProject TypesPublic and private projects, including urban, suburban, and rural deploymentsKey ServicesFiber optic cable installation, duct and conduit construction, aerial and underground cabling, network testing, and maintenanceStandards & GuidelinesFOA Fiber Optic Installation Standards, ITU-T Recommendations (e.g., G. 652, G. 957), and local infrastructure standards such as CDU Communications Infrastructure StandardsCabling TypesSingle-mode and multi-mode optical fibers, coaxial cables, copper pair cablesInstallation MethodsDirect burial, duct installation, aerial deployment, microduct blowing, cable pulling, and horizontal cabling for buildingsNetwork TopologiesPoint-to-point, point-to-multipoint (including Passive Optical Networks, PON), and Active Ethernet networksRegulatory ConsiderationsCompliance with local building codes, safety regulations, and telecommunications authority requirementsKey NotesNAICS Classification: The 6-digit NAICS code 237130 covers power and communication line construction, while the 8-digit extension 237130-16 specifically targets telecommunications construction, providing refined segmentation for industry analysis and government documentation.

Standards: FOA standards provide detailed guidance for fiber optic cable plant installation, including workforce training, safety, and technical procedures. ITU-T recommendations define optical fiber characteristics and system performance for single-mode and multi-mode fibers. Cabling Infrastructure: Modern installations often adopt Category 6a or higher for horizontal cabling in buildings, with flexible deployment methods such as microducts and blown fiber to optimize scalability and future-proof networks.

Deployment Methods: Optical cables can be installed underground in ducts, directly buried, or aurally. Microduct systems allow incremental fiber deployment and easy upgrades, while point-to-multipoint topologies support efficient subscriber connections. This classification table provides a structured overview of the communication optical cable installation industry, integrating regulatory, technical, and operational perspectives for professional reference.

Article Content

Handbook Optical fibres, cables and systems

The optical fibres are specified in ITU-T with reference to the geometrical, optical, transmission and mechanical attributes listed in Table 1-1. However, as shown in the same table, for some attributes

Major Recommendations: Optical

These standards provide attributes and values for optical fibres and cables which are needed to support: Network applications such as those recommended in Recommendation ITU-T G.957 up to 2.5 Gbit/s

ITU iLibrary | Optical Fibres, Cables and Systems

The Handbook is intended as a guide for technologists, middle-level management, as well as regulators, to assist in the practical installation of optical fibre-based systems.

An Introduction to Telecommunication Cables

bles used in communication access networks. The paper introduces the different cable technologies currently available – optical fibre cables, copper pair cable and coaxial ca.

Understanding and Selecting Optical Fibre and Cable

In this document, the relationship between the cable features, followed standards, test parameters, and acceptance criteria are explained with examples for a better understanding of an optical fibre cable

2020 National Electrical Code® and data/comm cables

This article, contributed on behalf of the Communications Cable and Connectivity Association (CCCA), is intended to provide the reader with a guide to the key changes in the 2020 National Electrical Code

Network Cabling and Standards

Learn the common network cabling types as well as standards. UTP, fiber cabling, CAT 5,6, twisted pair, TIA/EIA-568A. CompTIA Network+ book.

Wire and Cable Application Guide

A guide to determining the suitability of UL Certified, Listed, Classified and Verified wire and cable for use in a specific installation.

Fiber Optic & Cable Standards Guide | FiberMania Standards

Get a complete guide to fiber optic & related products standards—from basics to advanced, covering all key details for full understanding.

ISO/IEC 11801 Standard: Complete Guide to Structured Cabling,

Learn about ISO/IEC 11801 structured cabling standards for commercial buildings and industrial networks. Explore copper cable categories (Cat 5e to Cat 8), optical fiber classes (OM1-OM5, OS1

Cisco SFP and SFP+ Transceiver Module Installation Notes

This installation note provides the installation instructions for the Cisco small form-factor pluggable (SFP) and SFP+ transceiver modules. These transceiver modules are hot-swappable

Handbook Optical fibres, cables and systems

The simultaneous availability of compact sources and of low-loss optical fibres led to a worldwide effort for developing optical fibre communication systems. The real research phase of fibre-optic

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The Fiber Optic Association

Other groups may have fiber optic standards also: ANSI is the governing bodies for standards in the US, NIST provides primary standards, IEEE has standards for networks like Ethernet, IWCS has

Fiber Optic Standards and Protocols

Test procedures and compliance with standards are essential for measuring optical power loss, fiber ribbon dimensions, and optical eye patterns,

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Understanding and Selecting Optical Fibre and Cable

This document will provide an understanding of optical fibre, optical fibre cable (OFC), application standards, and key considerations that one should make before selecting optical fibre products.

Related Video Reference

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