

Opgw optical cable code



Article Overview

OPGW cable codes are structured identifiers that describe the cable's fiber count, mechanical structure, and optional features for overhead power line applications.

Overview of OPGW Cable Codes

An Optical Ground Wire (OPGW) combines grounding and optical fiber communication functions in high-voltage overhead lines. The cable contains optical fibers in a tubular structure, surrounded by layers of steel and aluminum wires, providing both mechanical strength and lightning protection. The cable code is a standardized way to specify its design, fiber count, and structural type.

General OPGW Cable Code Format

The typical OPGW code format is: OPGW-XX -YY (ZZ;AA)

- XX: Indicates the cable structure type (e.g., B1, B2, D)
- S: Optional suffix for special structural features
- YY: Number of optical fibers in the cable
- ZZ;AA: Optional extensions for additional specifications, such as material type, mechanical performance, or environmental suitability

Common Structure Codes

- B1: Single-layer stranded aluminum-clad steel wires around a central fiber tube
- B2: Double-layer stranded aluminum-clad steel wires for higher mechanical stren...

Article Content

Jul 14, 2026

Business Documentation (DBD)

NPS/002/024 - Technical Specification for Fibre Optic Cables, Wrap, OPGW and ADSS

1. Purpose The purpose of this document is

Jun 08, 2026

Fibre Optic Overhead Ground Wire (OPGW) Standard

1 General 1.1 Purpose To define the technical specifications for the supply of Fibre Optic Overhead Ground Wire (OPGW) for

Nov 11, 2025

OPGW Fiber Optical Cable Manufacturer High Quality

OPGW cable is usually custom-designed to best match the optical, electrical, mechanical, quality, and cost

Feb 09, 2026

10-SDMS-03

The OPGW must be designed to the ultimate requirements from optical, electrical, mechanical, quality and cost point of view,

Jan 08, 2026

2. 3117-41048FXXCL

Fibre Optic Overhead Group Wire Optical Ground Wire (OPGW) is used in power utility for dual function as a ground or static wire

Feb 26, 2026

What is OPGW Optical Cable? Structure, Working Principle

What is OPGW optical cable? Learn its structure, working principle, advantages, and applications in power

Apr 25, 2026

Application Specification OPGW Optical Power Ground Wire Central ...

Application An Optical Ground Wire (OPGW) serves a dual purpose in electrical power transmission and distribution

Aug 31, 2025

Different Types of OPGW Cable Code Naming Rules | OPGW

Learn the naming rules of different OPGW cable types, including fiber count, structure codes (B1, B2, D), and technical

Jan 09, 2026

TECHNICAL SPECIFICATION Optical Ground Wire

OPGW tests shall be in accordance with applicable standards or agreements between purchaser and manufacturer. As a general

May 02, 2026

OPGW cables

Technical data er request. Optical unit composed by 1 to 3 stranded stainless steel tubes Double or triple armour layers available un

Dec 26, 2025

CentraCore OPGW Cable | Central Tube Optical Ground Wire | AFL

AFL's CentraCore OPGW (Optical Ground Wire) features a central tube design that protects fibers while offering high tensile strength

Aug 22, 2025

01_OPGW.cdr

catalog | Optical Cables Optical Ground Wire| OPGW Application Suitable for installation as ground wire in powerlines. The cable

Oct 14, 2025

OPTICAL FIBER OPGW

This specification covers COMCAST® OPGW for the installation on high voltage overhead power lines. The cable contains optical

Feb 24, 2026

Optical Fiber Overhead Ground Wire (OPGW)

ISO 9001 Quality Management Systems ISO 14001 Environmental Management Systems IEEE Std 1138 IEEE Standard construction

Jul 17, 2026

FIBRE OPTIC SYSTEMS FOR OHTL

Introducing fibre optic systems for OHTL Overhead optical fibre cable systems have become a key factor in telecommunications

Aug 14, 2025

OPGW Optical Ground Wire

IEC 60794-1-2 Optical fiber cables-Part 1-2: Generic specification - Basic optical cable test procedures IEEE1138-2009 IEEE

Mar 17, 2026

OPGW Cable Specifications by ZTT | PDF | Optical Fiber

The document is a technical specification for an optical ground wire cable from ZTT Cable. It provides details on the cable

Mar 19, 2026

Application Specification OPGW Optical Power Ground Wire Central ...

speed data communication. OPGW cables, also known as Optical Fiber Composite Overhead Ground Wires, are laid

May 27, 2026

Optical ground wire

An optical ground wire (also known as an OPGW or, in the IEEE standard, an optical fiber composite overhead ground wire) is a type

Jul 11, 2026

CentraCore OPGW F

FIBER OPTIC CABLE CentraCore OPGW Typical Designs (cont.) ... tion) software. WIR files of all these catalog designs can be

May 14, 2026

What is OPGW Cable? A Guide to Optical Ground Wire

The adoption of OPGW technology is driven by a clear set of advantages over other cabling methods: Cost-Effectiveness: By

Jun 20, 2026

CentraCore Optical Ground Wire OPGW | AFL EMEA

AFL CentraCore OPGW (Optical Ground Wire) is preferred for its compact size and ability to house up to

Sep 21, 2025

IEC 60794-4-10:2014

Optical fibre cables - Part 4-10: Family specification - Optical ground wires (OPGW) along electrical power lines.

Oct 29, 2025

E27-TS-OPGW

OPGW CABLING IN TR LINE OPGW CABLING AND ASSOCIATED HARDWARE & FITTINGS
This section describes the functional

Aug 28, 2025

AR-1-CT-OPGW-xxF-G652D_G655_AR-1-LT-OPGW-xxF-G652D_G655

This specification covers Optical Ground Wire Cables (OPGW) for the installation on high voltage overhead power lines. The cable

Dec 16, 2025

OPTICAL GROUND WIRE (OPGW) CABLE

The cable shall perform the dual function of the Earth wire and Optical Fiber Cable. The cable shall have good mechanical protection

Feb 10, 2026

Optical Fiber Composite Overhead Ground Wire (OPGW)

OPGW is mainly applied in communication line of newly constructed high voltage transmit electricity system with 35 KV or above, or

Contact Us

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