

# Fiber Optic Logging Cable Specifications and Models Table



## AI Overview

Fiber optic logging cables are specialized high-strength cables designed for real-time data transmission in harsh oil and gas well environments, supporting high temperatures, pressures, and long-distance operations.

### Overview

Fiber optic logging cables are used in oil and gas well logging to lower instruments into wellbores and transmit real-time data. They are preferred over traditional wireline cables due to higher bandwidth, immunity to electromagnetic interference, lighter weight, and enhanced safety. These cables are engineered to withstand high temperatures, pressures, and harsh chemical environments, making them suitable for deep and high-pressure wells .

### Key Specifications

| Specification                                               | Typical Range / Description                            | Fiber Type                                                          |
|-------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------|
| Singlemode (G.652.D) or multimode (OM1/OM2/OM3/OM4)         | Core Diameter                                          | 9 μm (singlemode), 50–62.5 μm (multimode)                           |
| Buffering                                                   | 900 μm secondary coating, tight-buffered or loose-tube | Outer Jacket                                                        |
| High-strength, chemical-resistant, abrasion-resistant       | Temperature Range                                      | -20°C to +70°C (standard), specialized high-temp variants available |
| Max Load (Installation)                                     | 6 N (example for pigtail cables)                       | Max Load (Installed)                                                |
| 3 N (example for pigtail cables)                            | Minimum Bend Radius                                    | 30 mm (installation), 30 mm (installed)                             |
| Data Transmission                                           | High-speed, real-time logging data over long distances | Applications                                                        |
| Well logging, petrophysics, geomechanics, fluid analysis... |                                                        |                                                                     |

## Article Content

Jan 27, 2026

Cables: Fiber

The4 fiber type designations OM1, OM2, OM3, OS1 and OS2 relate to cable transmission perfor-mance. In ISO/IEC 11801:2002 and

Apr 16, 2026

Quality Wireline Cable Specifications | PDF | Insulator ...

The document provides manufacturing information for various cables produced by Jiangsu Huaneng Cable Co. It includes

Nov 01, 2025

Specifications For Fiber Optic Networks

Specifications For Legacy Fiber Optic Networks A listing of many fiber optic LANs and links available in the last 30 years, with basic

Aug 19, 2025

Production logging via coiled tubing fiber optic infrastructures (FSI ...

Production logging via coiled tubing fiber optic infrastructures (FSI) and its application in shale gas wells December

Jan 11, 2026

The High-Temperature Resistant Well Logging Optical Cable

The range of cables includes metallic and dielectric cables that cover the fiber up to several hundred fibers. Resistant to high

Apr 21, 2026

Fibre Optic Cable Catalogue

Fibre Types & Wavelengths Briticom® cables are available in many specifications, for both indoor and outdoor use. We have a wide

May 17, 2026

Fiber Optic Cables

The S670T series of Marine Shipboard armored fiber optic cables are designed especially for the harsh environments of commercial

Jul 10, 2026

## Optical fiber logging cable Special cable

Optical fiber logging cable enables the transmission of detailed data over long distances, making it an essential

Nov 12, 2025

## Fiber Optic Cable Types Explained

Our comprehensive guide to types of fiber optic cables. Learn all about the differences between single mode and multimode cables,

Dec 23, 2025

## Optical Fiber Product Information Sheets

An all inclusive list of the various optical fiber specification sheets.

Jan 02, 2026

## Fibre Optic Cable Catalogue

Fibre Types & Wavelengths oth indoor and outdoor use. We have a wide range of indoor and outdoor fibre optic distribution, patching

Jun 10, 2026

## An Armored Fiber Optic Logging Cable

An ultralow stretch armored cable containing 3 optical fiberRs and 8 electrical conductors has been developed for use in oil well

Jun 09, 2026

## A High Data Rate Fiber Optic Well Logging Cable

This development has led to a new logging cable with superior mechanical properties, containing eight electrical wires and three

Mar 10, 2026

## Belden Optical Fiber Cable Catalog

The individual single fiber units (of which these metal-free breakout cables are composed) permit direct (de-tensioned) terminations

Jan 08, 2026

## Fiber Optic Cables Technical Data

Fiber optic cables are not recommended for explosion proof applications in hazardous environments. The fiber optic cable can

Apr 02, 2026

## Understanding and Selecting Optical Fibre and Cable

In this document, the relationship between the cable features, followed standards, test parameters, and acceptance criteria are

Jun 22, 2026

## Production logging via coiled tubing fiber optic ...

According to the optical fiber production profile testing technology with continuous tubing as the carrier, the main production layer

Oct 08, 2025

## Fiber Optic Cables

In many applications, the optical fiber must be contained within a cable structure to ensure it survives the environment in which it is

Dec 29, 2025

## Fiber-Optic Technology Allows Real-Time Production Logging Well

It will also illustrate a multiwell logging campaign in the Marcellus shale, which highlights the benefits of fiber-optic

Feb 22, 2026

## Fiber Optic Cable Catalog

Since 1986, Proterial Cable America has been developing technologically advanced copper and fiber optic communication cables.

Jan 29, 2026

## CORNING OPTICAL COMMUNICATIONS GENERIC SPECIFICATION

2.0 Fiber Specifications 2.1 Detailed information on the fiber types available for this cable design can be found in the following

Nov 05, 2025

## Fiber Optic Cables

Armoured and Flame retardant optical fibre cable, AICI - code F104 NEK TS 606:2016 (available also in MUD protected version).

Aug 24, 2025

## Fiber Optic Cable SM, LT Armored MDPE

Fiber Optic Cable SM, LT Armored MDPE gel-filled loose tubes (4-12 fibers). The core is water blocked, wrapped in polyester tap

Jun 15, 2026

Product Catalogue Fibre Optic Cable

Flat ribbon fibre optic patch cable with 4 to 12 fibres in flat ribbon layout. It utilizes soft aramid yarn strength members and a Low

## Contact Us

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