

Logging Optical Cable Specifications and Models



AI Overview

Logging optical cables include wireline, slickline, and permanently installed downhole fiber optic cables with various armored and metal tube constructions for harsh environments.

Types of Logging Optical Cables

- Wireline Logging Cables** Designed for deployment in oil and gas wells for real-time data acquisition. Typically include fiber in metal tubes (FIMTs) for hermeticity, crush resistance, and corrosion protection. Can be wire-armored to improve tensile strength and handling characteristics. Used for distributed temperature sensing (DTS), distributed acoustic sensing (DAS), and telemetry to point sensors such as pressure or strain gauges.
- Slickline Logging Cables** Slimmer, flexible cables for well intervention and logging operations. Often used in environments where minimal diameter is critical. Can include single or multiple fibers in protective metal tubes with optional polymer jackets.
- Permanently Installed Downhole Cables** Cemented behind casing or strapped to production tubing. Provide long-term monitoring of temperature, strain, and acoustic signals. Construction options include stainless steel FIMTs, wire armor, and outer polymer jackets for enhanced durability.

Construction Variants

- Fiber in Metal Tubes (FIMTs):** Available in different sizes, wall thicknesses, and metal types. Provides hermetic sealing and mechanical protection.
- Wire Armored FIMTs:** Adds high-strength stranded wire over the FIMT for improved crush resistance and tensile strength.
- Outer Polymer Jackets:** Optional for additional environmental protection, chemical resistance, and abrasion resistance.

Tactical or Re-deployable Cables: Designed for repeated deployment in harsh or industrial environments.

Applications

- Oil and gas wells (DTS, DAS, pressure, and strain sensing)
- Pipelines and LNG facilities
- Industrial monitoring (power cables, dams, nuclear, coal, or gas plants)
- Hydrological studies a...

Article Content

Slickline Fiber Optic Cables | Fibercore

Fibercore offers a range of slickline fiber optic cables suitable for logging wells directly or to be incorporated into a coiled tube. The portfolio utilizes a fiber in

Optical Fiber Cable Reference Guide

Optical fiber is more and more demanded thanks to the many benefits the technology provides. These benefits include high bandwidth, high transmission speed, noise immunity, enhanced data security

TE Connectivity

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

The High-Temperature Resistant Well Logging Optical Cable

Suitable for oil wells, gas wells, coal mines or under high temperature conditions. The cables marked with Dry; They are a series of cables in which the typical water blocking the intermediate tubes

Electromechanical Wireline | Camesa Wireline

Camesa offers a range of EMC products for oil and gas projects in all environments. Our electromechanical cable options include cased hole, open hole, sour service, geothermal,

Understanding and Selecting Optical Fibre and Cable

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 fiber logging cable Special cable

Optical fiber logging cable enables the transmission of detailed data over long distances, making it an essential component in oilfield service operations. Overall, the use of optical fiber

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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 technology as a suitable alternative to traditional production logging

Permanent fiber-optic cable

Permanent downhole fiber-optic cables are critical infrastructure in wellbore monitoring systems, ensuring reliable transmission of data for applications such as distributed temperature, acoustic, and

The High-temperature Resistant Well Logging Optical Cable

The cable range for direct buried installation includes all four of our basic designs: concentric core, slotted core tape, DryTech and loose tube tape. The cables are reinforced with corrugated steel tape,

Logging Cable

The logging cable is an integral and important part of the logging system that helps to suspend and hold the sonde in the length of borehole at the desired depth.

An Armored Fiber Optic Logging Cable

An ultralow stretch armored cable containing 3 optical fibers and 8 electrical conductors has been developed for use in oil well logging operations. A mating cablehead termination, optical transmitter

Fiber-optic logging for efficient VSP in an offshore Norway CCS ...

Equinor leveraged cutting-edge fiber-optic logging technology to conduct a vertical seismic profile (VSP) survey within a CCS well offshore Norway. The deepwater project, targeting

Quality Wireline Cable Specifications

HUANENG Catalog-Wireline Logging Cable-Huaneng - Free download as PDF File (.pdf), Text File (.txt) or read online for free. The document provides

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 optical fibers with a data rate of at least 10 Mbits/sec each. This fiber

Cable Logging? Optical Fiber Logging?--JASON is

Difference between Optic-Fiber logging and traditional cable logging The electrical-based sensors used in cable logging can not work continuously in harsh

Fiber Optic Cables | Fibercore

Fibercore brings over 25 years of cable design knowledge and manufacturing expertise to create cable designs that are customized to the rigors of specific

Downhole Logging

Wireline cables for downhole logging applications, delivering reliable power and data in high-pressure, high-temperature wells.

Fiber Optic Cables

Optical fibers that are incorporated within these cables are used for telemetry to the tool, but can also be monitored for distributed temperature and acoustics, providing additional information for

Oil Well Load Bearable Detecting Cable-Well Logging

Electro-Optic Tow Cables depths up to 6,000 meters The cable constructions are designed to endure the demands of the required tow strengths and

Fiber Optic Cables

Oil & Gas Fiber optics are used for measuring a variety of attributes in an oil or gas well including: distributed temperature, distributed acoustic energy, and strain. This is also used alongside telemetry

Contact Us

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