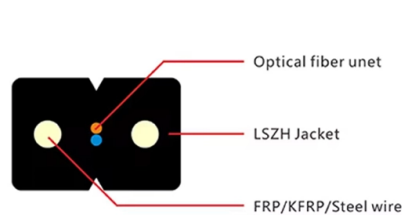


Slovenia Well Logging Fiber Optic Cable Dimensions



Article Overview

Permanent downhole fiber-optic cables for well logging typically use a 1/4-inch (6.35 mm) control line with robust tube-in-tube construction for harsh environments.

Cable Design and Dimensions

Permanent fiber-optic cables used in well logging are designed to withstand high pressure, elevated temperatures, mechanical shock, and corrosive fluids. The standard configuration includes a fiber in metal tube (FIMT), where optical fibers are hermetically sealed in a stainless steel or INCONEL® tube. This FIMT is supported by an extruded polymer layer called the belt, and an outer tube provides the primary mechanical and pressure protection. The overall diameter of the control line is approximately 1/4 inch (6.35 mm), though the cable can be customized with additional armor, encapsulation, or filler depending on deployment requirements .

Fiber Types and Protection

The FIMT can contain a mix of single-mode and multimode fibers, allowing for distributed temperature, acoustic, and strain sensing (DTS, DAS, DSS). Filling gels inside the FIMT protect against microbending and chemical ingress. The outermost layer or encapsulation provides extra mechanical protection during deployment, ensuring long-term reliability in downhole conditions .

Retrievable Well Logging Cables



Article Content

Well logging with Carina 100Xlog, retrievable fibre optic service ...

Optimize well placement and completion design using Silixa's fiber-optic surveillance for fractured reservoirs.

Optical fiber logging cable Special cable

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

Downhole Fiber Optic Cable & Flatpacks | Prysmian

Flatpacks are available in a range of configurations, materials and dimensions to suit all applications and, to ease installation or

Optical fiber logging cable Special cable

Optical fiber logging cable is a type of cable used in oil and gas well logging applications. It is designed to provide

Permanent fiber-optic cable

Permanent downhole fiber-optic cables are critical infrastructure in wellbore monitoring systems, ensuring reliable transmission of

GB2333610A

A well logging cable 10 includes an optical fibre 2 and a pressure sealed enclosure 26 surrounding the fibre. The enclosure is

Well Logging with Carina 100Xlog Fiber Optic | Silixa Ltd.

Visualize entire well dynamics in real-time with Carina® 100XLog, enhancing efficiency and reducing deferred production.

Fiber Optic Cables | Fibercore

The types of cables used in the industry include: permanently installed fiber optic cables, logging cables (both wireline and slickline)

US4722603A

A method and means for determining the amount of stretch in a well logging cable is disclosed. An optical fiber is run into a well with

Fiber Optic Logging in a European Geothermal Well.

Following a well stimulation operation, FiberLine Intervention (FLI) technology, from Well-SENSE, was used

Fiber optic well logging means and method

logging cable 17has optic fibers 14, 14A contained in a protective material 19 such as polypropylene which has a copper sheath 22

Downhole Fiber Optic Cable | Fibercore

Fibercore offers a range of designs for downhole fiber optic cable to meet the specific requirements of your oil or gas well. These

Pioneering Well Logging: The Role of Fiber Optics in Modern

The integration of fiber-optic sensing not only delivered superior diagnostic clarity but also reduced the diagnostic timeline by over

Cable Logging? Optical Fiber Logging?--JASON is ready for you!

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

Bazaid et al No 1

Pioneering Well Logging: The Role of Fiber Optics in Modern Monitoring for Well Integrity Diagnosis Abdulaziz S. Bazaid¹,

Design and Experimental Research of a Fiber-Optic ...

This system provides a way that allows optical information to transmit in a high-temperature environment. It can be

Optiq Seismic Fiber-optic borehole seismic solution

Optiq Seismic solution is the industry's only end-to-end, deployment-agnostic solution that eliminates the need for a dedicated

CT logging service leverages powers of fiber-optic telemetry

In 2008 Schlumberger introduced the ACTive live well performance coiled-tubing service based on fiber-optics

Application of fiber optics in oil and gas field development ...

In this study, we presented a comprehensive review on the application of fiber optics in monitoring well integrity, sand

Fibre Optic Cable Manufacturing in Slovenia Industry ...

IBISWorld's research coverage on the Fibre Optic Cable Manufacturing industry in Slovenia includes market sizing, forecasting, data

Optiq Fiber-Optic Solutions | SLB

Traditional measurements typically rely on discrete sensors that measure at certain points, whereas distributed sensing technology

Fibre-optic cables | Optisis.si

To meet various requirements, we offer a wide range of fibre-optic cables – indoor, outdoor, aerial, universal, mini and micro fibre

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

Production logging via coiled tubing fiber optic ...

However, a number of shale gas wells need to be evaluated in the effects of well drilling and completion and fracturing, providing the

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

Reducing Intervention in Subsea Wells With Fiber-Optic

Fiber-optic-system installations have reduced the need for intervention by logging tools and

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://e-motional.eu>

Email: info@e-motional.eu

Phone: +49-30-657-8924

Address: Friedrichstraße 101, 10117 Berlin, Germany

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