


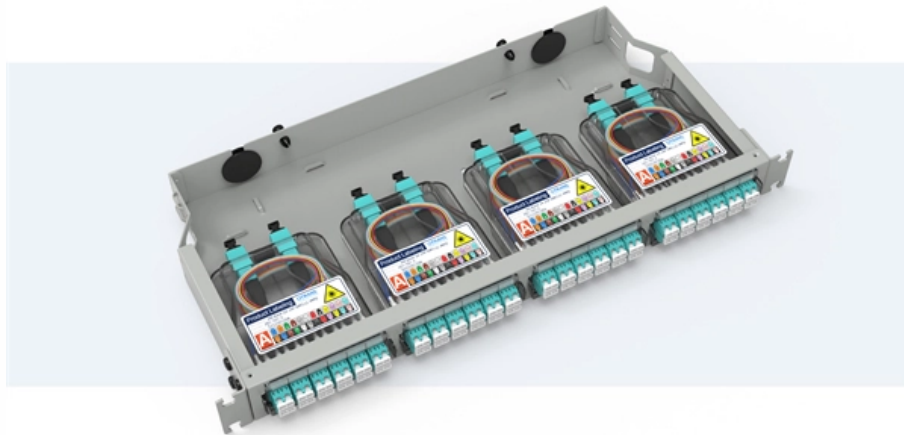


Principle of Thailand s Single-Mode Well Logging Optical Cable

Pre-Terminated Patch Panel

-  Multi-application support
-  Flexible configurativon
-  Modular design



Cable Gland Plug
28mm Cable Gland Plug



MPO-LC up to 96 cores
MPO direct connection 48 ports



Mounting Bracket
Semi-open mounting holes



Overview

These monitoring systems help improve well productivity by identifying trends throughout the producing life of the well, and they rely on the robust design and long-term survivability of optical cables under harsh downhole conditions. Since the optical fibres act as the sensor array the system is inherently reliable and so offers a more cost effective means to gather the cable it is possible to introduce one to the wellbore as an intervention. More time and cost effective deployment is possible, but continued research and development efforts are necessary to. 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 strain sensing (DTS, DAS, and DSS)—all with one 1/4-in control line. Paper presented at the SPE/ICoTA Well Intervention Conference and Exhibition, The Woodlands, Texas, USA, March 2020. This study presents the evolution of downhole fiber optics to a new hybrid electro-optical cable for coiled tubing (CT) applications. The network is composed of a ground-based sensing signal demodulation system, a fault detection module, and an underground optical fiber sensing topology.



Principle of Thailand's Single-Mode Well Logging Optical Cable

(PDF) Indepth Study of Single mode Optical Fibre

Single-mode is a transmission system that uses light as the medium in the optical fiber, and only one index of non-reflected light propagates along the

CASE STUDY: Production Log and VSP

The below plots show the separated downgoing and upgoing wavefields from a stack of 89 zero offset source shots taken with the well shut-in. Data acquisition occurred simultaneously at all depths



Hybrid Electro-Optical Cable for Coiled Tubing Logging and

This new hybrid cable and its associated surface and downhole system provide a single solution for interventions, distributed measurements, and logging. Altogether, they pave the way for

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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 guidance for the next fracturing design, so the production logging via

(PDF) Basic Well Logging By Mandeep Kumar

The paper discusses the principles and applications of well logging, dividing it into open-hole and cased-hole operations. It provides detailed

Optical Vertical Seismic Profile on Wireline Cable , SLB

A prototype for an optical telemetry system that was based on a heptacable (a steel-armored wireline cable containing seven conductors) incorporating single-mode optical fiber was



Singlemode vs Multimode Optical Fibre

Singlemode fibre is used in many applications where data is sent at multi-frequency (WDM Wave-Division-Multiplexing) so only one cable is needed: singlemode on one single fibre. Singlemode

Real-Time Downhole Monitoring Using DAS and DTS: A

The aim of well integrity interventions using distributed fiber optic sensing (DFOS) is to significantly reduce the duration and the cost of these

Springer MRW: [AU:0, IDX:0]

Logging cable and tools must be constructed in such a way that can withstand the highest temperatures and pressures encountered in the well. Interpretation of well-log



data may commonly require

DAS VSP Acquisition Through Coiled Tubing Fiber-Optic Cable

This situation created the possibility of borehole seismic acquisition-while-CT service by adding a single-mode fiber (SMF) in the fiber-optic cable. Called distributed acoustic sensing (DAS) vertical seismic

Fiber-optic technologies and methods for downhole monitoring

Sensor cable: Protect fiber from mechanical and chemical influences. Steel tube, with additional jacketing (plastic, steel). May contain several fibers for different sensing techniques. Cable clamps:



Real-Time Downhole Monitoring Using DAS and DTS: A

In this study, we will investigate different failure patterns occurring on the well completion, as the production tubing or packers. On the first hand, we will

Development of a Single-Borehole Radar for Well Logging

Abstract An impulse-based single-borehole radar prototype has been developed for well logging. The borehole radar is comprised of subsurface sonde

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/second each. This fiber

Permanent fiber-optic cable

How it improves performance Advanced design and construction Permanent downhole fiber-optic cables are critical infrastructure in wellbore monitoring systems, ensuring reliable transmission of data for

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 and the bottom hole



Vertical seismic optical profiling on wireline logging cable

A single shot generated equivalent data with an experimental optical wireline logging cable and an adequate optical interrogator at the surface. The main difference between the two records is the

New methods in geophysical exploration and monitoring with DTS and

We show that fiber-optic sensing opens up new possibilities for geophysical measurements with a broad range of applications in well logging and seismic exploration and monitoring.

Hybrid Electro-Optical Cable for Coiled Tubing Logging and



This study presents the evolution of downhole fiber optics to a new hybrid electro-optical cable for coiled tubing (CT) applications. The optical fibers enable optical communication and

Research on the Data Interpretation Model of Optical Fiber Profile

Abstract: Fiber optic cables have the advantages of high temperature resistance, high pressure resistance, corrosion resistance, and high accuracy in measuring temperature DTS data. They are

Distributed Acoustic Sensing Acquired Wellbore Seismic Data Using

These cables integrate fiber optic strands with the copper lines found in conventional electric wireline cables. When optical fibers are part of a hybrid optical-electrical logging cable, seismic data can be



Fiber-Optic Technology Reduces Production Logging

The new technique uses coiled tubing equipped with optical fibers to acquire real-time measurements from the downhole logging string. The advantages of this conveyance option include

Permanent fiber-optic cable

Designed to prestress the cable assembly during fabrication, this process ensures that the fibers remain strain-free throughout deployment and operation, minimizing the risk of optical degradation or breakage.

Geophysical Well Logging , Springer Nature Link



Well logging uses the principles of almost all methods in geophysical surface surveys: electrical, nuclear, seismic, geothermal, gravity, magnetic, and electromagnetic and additionally some procedures

Single-Mode Fiber-Optic Cabling:

Explore the high-speed world of single-mode fiber-optic cabling, where data travels on beams of light, offering unparalleled efficiency.

Reflective optical fiber sensing network for monitoring in well logging

This paper proposes a reflective fiber-optic sensor network for multiparameter state monitoring in oil and gas wells. The network is composed of a ground-based sensing signal



Hybrid Electro-Optical Cable for Coiled Tubing Logging

Download Citation , Hybrid Electro-Optical Cable for Coiled Tubing Logging and Interventions , This study presents the evolution of downhole fiber optics to a new hybrid electro

Acoustic and Optical Televiewer Borehole Logging

Light intensity is either preset prior to logging or, in some systems, may be adjusted while logging. The optical image scan is either sent up the logging cable as an analog signal and digitized up-hole or

1. INTRODUCTION OF THE DATA TRANSMISSION TECHNOLOGY



In cable transmission, the signal goes down the inside of the drill pipe to the electrical conductor, which is similar to the armored cable in cable logging. With the deepening of drilling, cables and

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