



Specifications of Tonga Downhole Temperature Measurement Optical Cable

Preview

Downhole Cable feeds power supply voltage and transfers data from a downhole PDMS tool to Surface Recorder. Electrical based pressure sensors not only are restricted for temperatures below 200°C but also have a significant limit on the maximum well depths due to the electrical cable impedance. However, these wells usually involve high pressure, elevated temperature, or other highly. 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. These monitoring systems help. Bottom-hole pressure and temperature measurements with Tota Systems' PDMS enable control of the main hydrodynamic parameters, such as bottom-hole and reservoir pressures, calculated skin factors (contamination of the near-wellbore reservoir zone), productivity, hydrodynamic communication with. A typical TEF cable is a tube in tube design. The inner tube is a fiber in metal tube (FIMT). The fiber selection and appropriate filling gels can be customized to meet the customers specifications/requirements.

High-Temperature Downhole Cable As the leading supplier of downhole fiber optic cable used in the oil and gas industry, AFL

A typical TEF cable is a tube in tube design. The inner tube is a fiber in metal tube (FIMT). The FIMT can contain a range of fibers,

Our SureVIEW(TM) Fiber Downhole Cable supports SureVIEW distributed sensing technologies, including distributed temperature

A Pressure and temperature (P&T) monitoring system based on fiber Bragg grating (FBG) and extrinsic Fabry-Perot

A hybrid cable enables the combination of modern distributed fiber optic sensing well management technologies of DTS and DAS

Surface Recorder records data from downhole pressure and temperature measurement modules to store them in non-volatile

The optical fibers can be used to sense temperature and listen to well bore activities along the entire length

Specifications Measurement Pressure & Temperature Sensor Type Piezoresistive Input

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One optical fiber provides temperature measurements every 0.5 m [about 1.6 ft] along its length, producing a profile of temperature

Our proven fiber optics technologies also support point measurement pressure/temperature gauges to monitor downhole pressure

Compared to traditional downhole transmission methods, fiber optic communication enables real-time, high data rate transmission.

Also, measures the environmental and reliable measurements such as downhole flow rate, density and water cut

Fiber optics are used for measuring a variety of attributes in an oil or gas well including: distributed temperature, distributed acoustic

In view of the characteristics of traditional capillary pressure detection technology, such as flexible measurement and

Measurement Module consists of a mandrel containing tools with high-precision quartz pressure and temperature sensors without

Abstract A carbon-coated and bellow-packaged optical fiber sensor for high pressure and high temperature monitoring

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