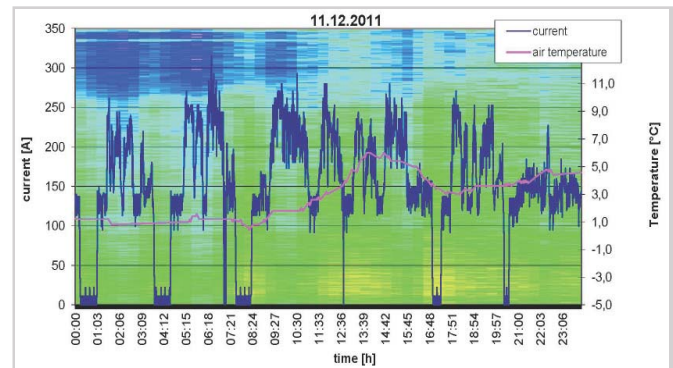


Distributed Temperature Sensing (DTS) - 1064 nm



*Reference Project:
Application of a 1064 nm
DTS-System for Cable Monitoring
at Excavators in Opencast Mining
(RWE)*

Inlet: Microchip Laser (Crylas)



*Distributed Temperature Sensing for 24 hours
x-axis: time; y-axis: fiber section; colour: temperature*

System Specification

System

Applied Fiber Wavelength Single and Multimode 1064 nm

Measurement Range Accuracy Temperature Resolution 5000 m ±5.0°C 3.0°C @ 5000 m

Spatial Resolution Sampling Resolution 1.0 meter 0.1 meter

Light source

Microchip Laser (Crylas) Laser Safety Class Repetition Rate Pulse Width 1064 nm 1M 15 kHz 1.5 ns

Detector

Applied Detector Avalanche Photodiode

Contact

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