

SESSION 2.5 - PHOTONIC TECHNOLOGIES FOR INDUSTRY 4.0

Invited speech - DISTRIBUTED FIBER SENSING TECHNIQUES FOR THE POWER CABLE INDUSTRY

This tutorial discusses the use of Distributed Fiber Sensing techniques in the Power Cable Industry. Through these techniques a standard optical fiber designed for telecommunication can be used as a sensor for monitoring temperature, strain and vibrations of long power cables. The measurands can be recorded with spatial resolution in order of few meters for distances up to 100 km

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