Rendering of direct welding in optical cross-connect box

A process for reinforcing a direct bond between optical materials using femtosecond laser welding is presented. As a side benefit, the optical transmission properties ...

A novel sensor concept for laser material processing based on optical coherence tomography (OCT) was used to measure the capillary depth of the keyhole during deep penetration ...

As the core switching unit of the optical network, the scalability and economic efficiency of the optical cross-connect (OXC) not only determine the flexibility of the network topology, but...

In this work, we propose a novel method to determine weld seam location and size using optical coherence tomography. Changes in optical ...

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Laser welding is an efficient and precise joining method widely used in various industries. Real-time monitoring of the welding process is important for improving the quality of the weld ...

Optical coherence tomography (OCT) provides a direct welding depth measurement during laser welding and shows high achievable accuracy in continuous monitoring. Statistical evaluation ...

Innovative Fusion System: A novel optical system was designed to couple optical coherence tomography (OCT) with high-speed coaxial imaging, enabling synchronous capture of ...

Abstract This paper addresses in-process monitoring of weld penetration depth (WPD) during remote laser welding of battery tab connectors using Optical Coherence Tomography (OCT). The research ...

This series optical cross-connection cabinet is mainly made up of Stainless Steel or SMC case, fixing elements of the case frame, cable fixing and protective device, direct welding module, terminal ...

We present our recent progress on the design and proof-of-concept demonstration of interfacing microstructure for shortdistance optical interconnects with a particular emphasis on their ...

The laser welding process was monitored by an OCT sensor and two photodiodes (Precitec, GmbH, Germany), which were installed co-axially below the collimator of the welding head. Signals from all ...

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