Inside-Plant Fiber Services

One of the essentials of an efficient, profitable network is fiber plant that adheres to engineering specifications, supporting applications and services by meeting throughput, bandwidth and reliability requirements. Fujitsu Inside-Plant (ISP) Fiber Services optimize and protect investment in fiber plant by addressing all aspects of optical fiber inspection, testing, maintenance and correction.

Fiber-Focused Support for Complex Deployment Projects

Fujitsu ISP Fiber Services improve the ability to orchestrate network deployments by taking care of the fiber-related equipment, materials, discovery and testing needed to put fiber plant on the right track. These services are selectable and customizable on a menu basis to provide the right services for individual situations.

Fujitsu ISP Fiber Services identify critical fiber requirements before deployment and deliver key business benefits:

- Eliminate potential problems
- Confirm design accuracy
- Assess growth capacity
- Eliminate project delays
- Ensure accuracy of equipment ordered
- Control costs
- Speed deployment

Fujitsu ISP Fiber Services augment deployment project resources and speed time to market by employing proven processes and procedures to identify, validate, test and, where necessary, correct embedded fiber plant. With repeatable, proven project and order management processes in combination with quality-focused characterization, testing and verification, we give you a fiber solution that is primed to carry the reliable bandwidth your customers expect.

Fiber Characterization

Choose Fiber Characterization services to get a thorough assessment of the condition of the fiber plant in the planning phase of a network migration or expansion. These services ensure that the correct equipment and material is ordered prior to deployment and includes fiber testing, verification, analysis, quality checking, project management and reporting. For Fujitsu equipment designs only, the service includes network design validation for a fiber network prequalification assessment.

Fiber characterization testing consists of a series of industry-standard tests performed on the fiber cables and connectors to measure optical transmission attributes that can influence optical transmission. The following tests are performed during this operation using an Optical Time-Domain Reflectometer (OTDR) and a broadband light source.

- Bidirectional OTDR shots
- Bidirectional Optical Insertion Loss (OIL)
- Bidirectional Optical Return Loss (ORL)
- Chromatic Dispersion (CD)
- Polarization Mode Dispersion (PMD)

Fujitsu Inside-Plant Fiber Services Summary

- **Fiber Characterization** – Fiber testing, analysis, component quality checks, notification and reporting
- **Fiber Splicing & Termination** – Replacement, installation and testing of newly installed connectors, pigtails, fan-out kits and ISP fusion splices
- **Fiber Labeling** – Labeling cables and connectors to customer specifications
- **Trace Analysis** – Analyze either customer or third-party traces and measurements to qualify optical networks

Flexible ISP Fiber Services for Individual Needs

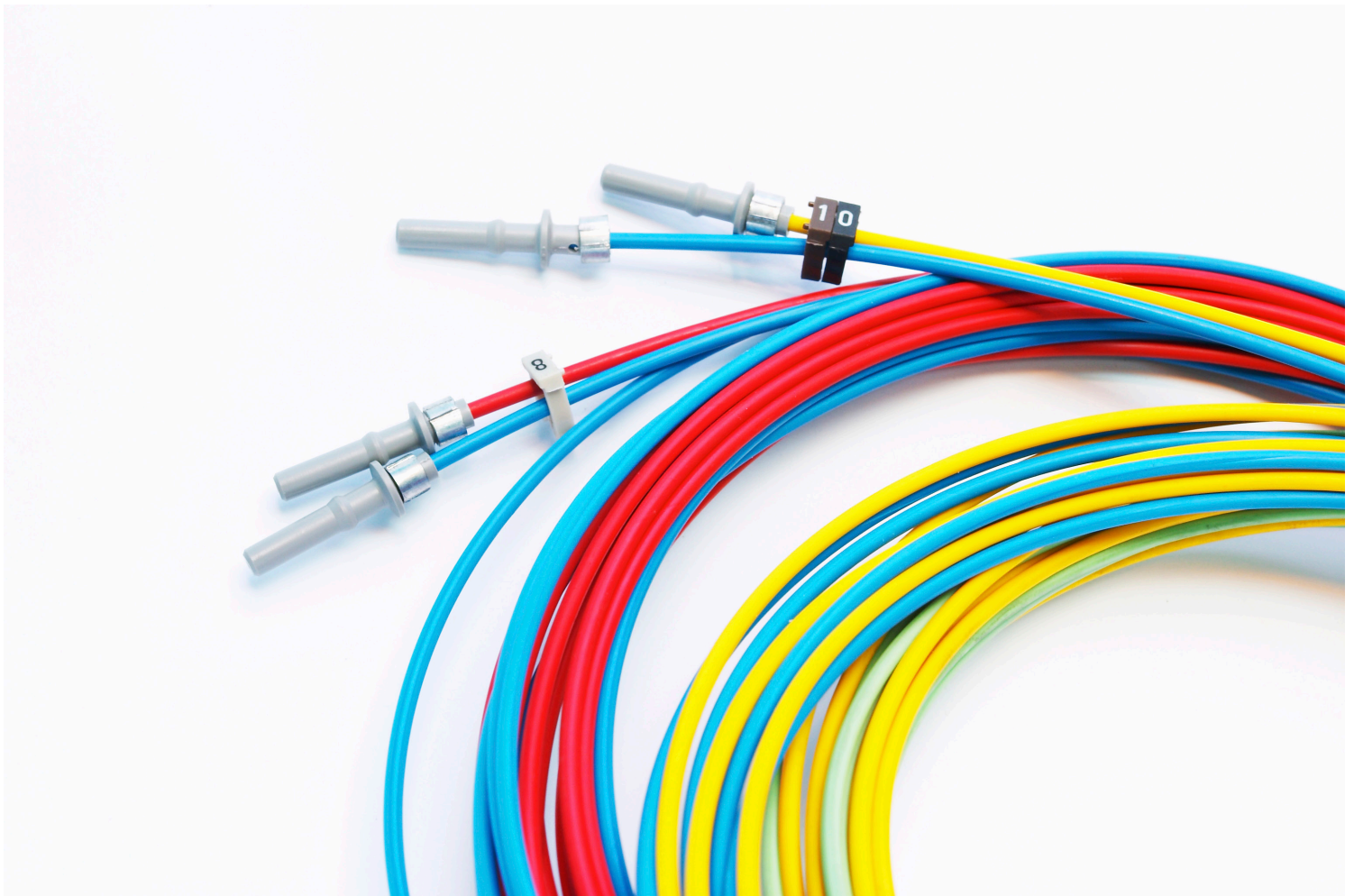## Fiber Splicing and Termination

The Fujitsu Fiber Splicing service ensures fiber segment connectivity as part of fiber network installation and maintenance. This service is available for all industry-standard connectors and fibers. The Fiber Termination service includes replacement, installation and testing of newly installed connectors, pigtails and fan-out kits.

Fiber Labeling

The Fiber Labeling service covers single strands, cabled bundles and termination panels. This service is available for all industry-standard single-mode or multimode fiber types and sizes.

Fiber Trace Analysis

Using customer and third-party traces and measurements, this test provides insight into the performance of an optical link's components and helps verify that the installation quality meets performance requirements.

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