ITU-T The leader in Recommendations on fibre-optic cable installation techniques

Investigation of soil and underground facilities

L.39: Investigation of the soil before using trenchless techniques

This Recommendation describes the main techniques that allow an investigation of the soil in order to get information about the position of buried objects and the nature of the ground.

L.73: Methods for inspecting and repairing underground plastic ducts

This Recommendation describes some inspection methods to check buried duct quality, and also describes various methods that are utilized to repair underground conduits.

L.84: Fast mapping of underground Networks

This Recommendation describes a fast solution for detecting and mapping underground networks in real time, necessary to plan the execution of work using trenchless or digging techniques.

Low environmental impact trenching techniques

L.48: Mini-trench installation technique

This Recommendation describes the so-called mini-trenching technique, that allows the installation of optical cables/ducts/ copper cables in small trenches.

L.49: Micro-trench installation technique

This Recommendation describes the so-called micro-trenching technique, that allows installing optical cables at a shallow depth, in small grooves.

L.83: Low impact trenching technique for FTTx networks

This Recommendation describes a fast and low-impact trenching technique to carry out all the steps the network construction within a day.

Trenchless techniques

L.38: Use of trenchless techniques for the construction of underground infrastructures for telecommunication cable installation

This Recommendation describes the main techniques that allow installation of underground telecommunication network infrastructures while minimizing or eliminating the need for excavation.

Ploating techniques for installation of fibre-optic cables

L.57: Air-assisted installation of fibre-optic cables

This Recommendation describes air-assisted methods for installing fibre-optic cables in ducts.

L.61: Optical fibre cable installation by floating technique

This Recommendation describes the floating technique for installing fibre-optic cables in ducts.

Other installation techniques

L.35: Installation of fibre-optic cables in the access

The Recommendation gives guidance for installation in ducts, aerial installation and directly buried cables in the access network.

L.77: Installation of fibre-optic cables in sewer ducts

This Recommendation describes methods to install ducts/fibre-optic cables inside sewer ducts. Both man- and non-man-accessible sewer ducts are covered.

L.82: Optical cabling shared with multiple operators in buildings

This Recommendation defines solutions that could be deployed to introduce fibre-optic cables into buildings up to the customer apartment.

For more information on Recommendations about fibre-optic cable installation techniques, please check the ITU-T Study Group 15 website at: www.itu.int/ITU-T/com15

Optical fibre cable installation techniques

> Fibre-optic cable installation techniques for different applications and environments

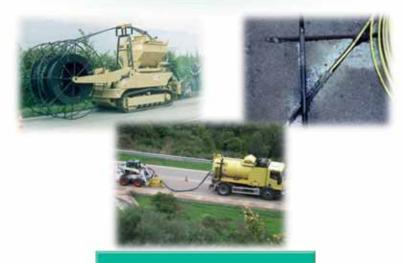
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Investigation of SOil and underground facilities



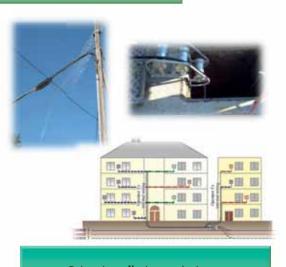
Low environmental impact trenching techniques



Trenchless techniques



Floating techniques for installation of fibre-optic cables



Other installation techniques