

OSP concept - Direct Buried

ACE is a certified, guaranteed **total** solution for passive FTTx networks

Introduction

ACE offers a wide range of solutions for outside plant (OSP) networks.

The direct buried solution is built with both direct burial ducts and direct burial drop cables including all necessary accessories.

Direct Buried solution advantages

- time and cost saving concept
- no tooling and blowing equipment required
- simple concept, easy to install
- unambiguous registration
- only one visit per customer required
- simple engineering and planning

Products

The main applied products in the direct buried solution are:

- feeder cable, ie. 24 to 144-way loose tube mini cables (LTMC)
- direct burial ducts and accessories
- distribution point as transition between the LTMC and the drop cable
- direct burial drop access cable (DAC)

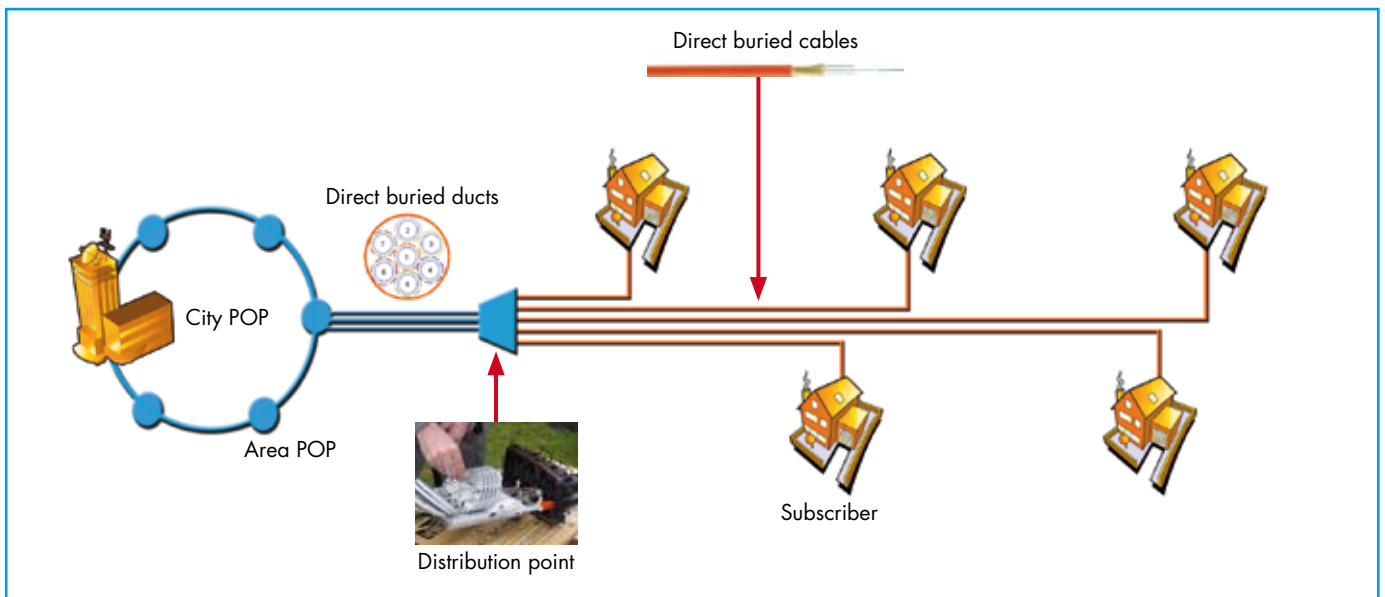
Direct burial ducts and accessories

Direct burial ducts serve as a pathway for the feeder cable. Branches are cost-efficiently made with direct burial connectors. Closures are not necessary. No special skills are required for the excavation worker to make the end-to-end duct route.



DAC cable

The DAC cable connects the end user. This so-called drop cable is buried directly under the ground, without any kind of extra covering, sheathing or ducting. The drop cables are spliced with the feeder cable underground in a closure or in a street cabinet.



Subscriber concept

ACE is a certified, guaranteed **total** solution for passive FTTx networks

Introduction

ACE offers a wide range of solutions for subscriber connections.

Single and multi dwelling units (SDU and MDU) can be connected with direct install solutions and modular solutions.

Subscriber concept advantages

- flexible and robust concept
- easy to install
- low OPEX and CAPEX
- bend insensitive access cable compliant to the latest technology
- pre-connectorized fibre cables

Products

The main applied products in the subscriber concept are:

- MDIC cable
- ducting system
- termination box

MDIC cable

The micro drop installation cable (MDIC) perfectly suits subscriber installations. The G657.A fibres are characterized by a low bend radius and no water peak. The MDIC cable can be delivered pre-connectorized ex works with different kind of optical connectors to save installation time. The MDIC cable can be attached directly to the wall with cable clips, in a conduit or duct.



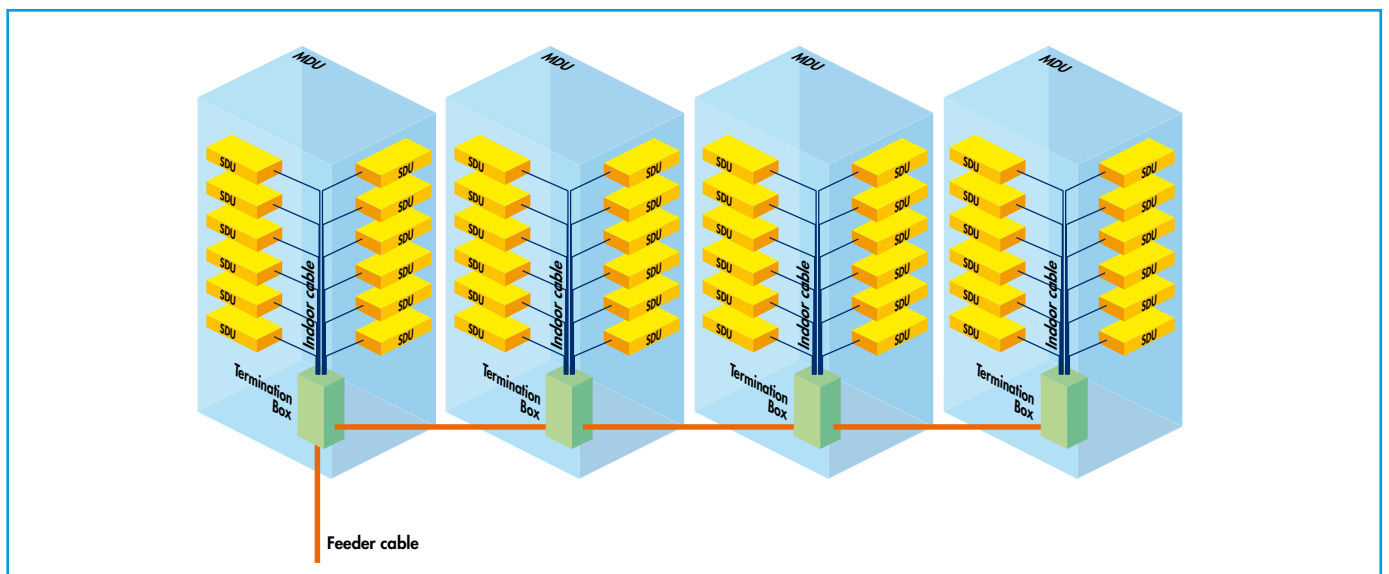
Termination box

The termination box serves as a transition point between the outside plant (OSP) and subscriber installation. A variety of types of the termination box is available.



Modular cabling system

ACE offers a total modular cabling system that allows success based connection on the subscriber's request.



OSP concept – Modular

ACE is a certified, guaranteed total solution for passive FTTx networks

Introduction

ACE offers a wide range of solutions for OSP networks.

The indicator “modular” refers to a modular duct system. An end-to-end pathway based on tubes is installed from the central telecom location (Area POP) to the end customer.

Modular solution advantages

- success based connection of customers
- flexible, network scalability
- simple concept, easy to install
- specially suitable for the installation of a network in green field areas

Products

The main applied products in the modular solution are:

- modular tube cable
- passive distribution point (PDP)
- tube connectors: straight as well as gas block
- enhanced performance fibre unit (EPFU)
- branch-off closures



Modular tube cable

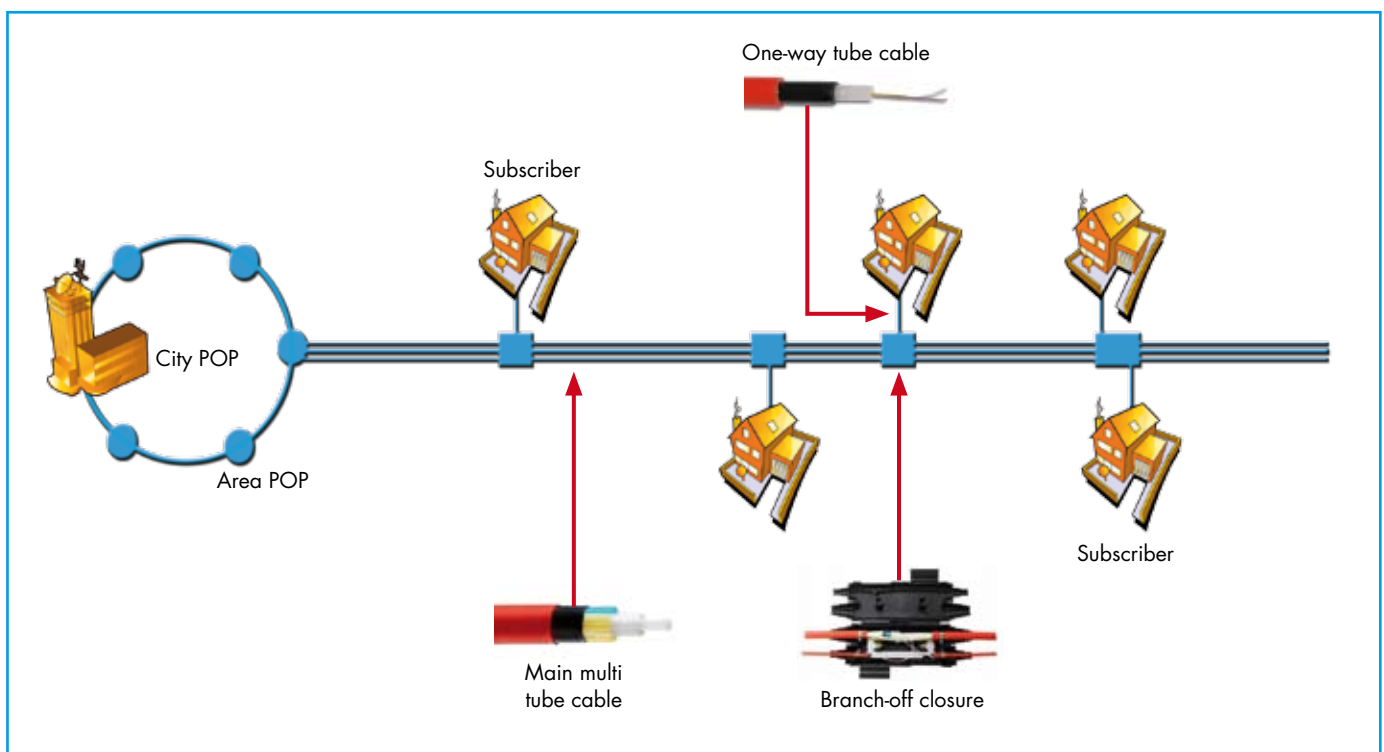
The diameter of the applied tubes depends on the fibre count and the distance that has to be blown. Most common are tubes with a diameter of 5/3.5 mm (outer/inner diameter).

A main multi tube cable (mostly filled with 24 tubes) is terminated in the area

POP. On the way to the subscriber the tubes are branched off in passive distribution points. Every subscriber is connected by a one-way tube cable.

EPFU

Once the subscriber is connected with a one-way tube cable to the area POP, it is possible to blow an optical fibre (EPFU) end-to-end.



ACE

ACE is a certified and guaranteed total solution for fibre optic networks. As a total concept ACE provides the broadband market with a new vision on building fibre optic networks. ACE supplies not only products, but also guarantees compatibility between all the different components and offers a complete, passive solution.



The ACE concepts are:



• POP concept



• OSP concept
- Direct Buried
- Modular
- Aerial



• Subscriber concept
(SDU and MDU)



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