

Cable Selection Guide for Ducts

Broadband services, especially those to FTTH subscribers are rapidly expanding and this accelerated growth has placed pressure on the limited space available in existing networks, which typically use conventional ducts.

In order to effectively address tomorrow's space constraints today, requires an innovative bundled micro duct system that is able to adapt to the network environment.

] Micro ducts provide a fast and efficient means of building a fibre optic network by allowing the deployment of multiple high count fibre optic cables using the micro duct system.

Micro ducts are used where future network expansion is expected and is ideal for new installation methods, giving customers the flexibility to add fibre cable as and when needed.

By installing micro duct systems into a company's networks, customers are given the power to use their duct system efficiently to its fullest potential, with the added benefit of being able to easily expand as needed. The process is fast and easy and importantly saves on future construction costs.

Sub ducts

Applications

Consisting of a single duct for smaller networks

Features

Made of high density polyethylene (HDPE) in a co-extrusion process with a low friction permanent silicon lined layer inside. Silicon lined layer is bonded to the substrate during the extrusion process to ensure no delaminating occurs during product lifetime. Ducts have a low coil set to ensure that when the duct is uncoiled, it lies straight and does not follow a spiral path.

Installation methods

Ploughing of direct buried sub ducts. Open/continuous trenches of direct buried bus-ducts.

Pull or blowing of sub ducts in main ducts (110mm).

] The micro duct and micro cable system allows for maximum cost effectiveness and return on investment.

The installed micro ducts are tailor-made for a changing environment and because technology is constantly shifting, companies need to ensure that the cables they are installing today allows them to capitalise on the very latest fibre technology, without costly civil construction work on the network.

Micro ducts

Applications

Inside sub ducts (existing or new)

Direct buried

Features

Made of high density polyethylene (HDPE) in a co-extrusion process with low friction permanent silicon-lined layer inside.

Low friction silicon lined layer is bonded to the substrate during the extrusion process to ensure delaminating occurs during the product lifetime.

Bundled ducts are protected by a high density polyethylene sheath.

Ducts have low coil set to ensure that when they are uncoiled, they lie straight and do not follow a spiral path.

Installation methods

Open/continuous trenches of direct buried sub ducts

Pull or blowing of micro ducts 32, 40 or 50mm.

