



Brief description of working group L1: standards relating to layer 1

The main aim of this working group is the specification of common points relevant to the industry regarding internal fibre optic cabling in house and finding a consensus in the case of solutions that are necessary for specific standardisation. These standards will be compiled using existing standards as a basis, or issued in the form of specifications.

1. Why?

- In order to be able to continue using existing cabling within a building in the case of a change of provider, certain minimum requirements for the installation of fibre optic networks must be specified in advance
- The materials for constructing fibre optic networks are largely standardised and will continue to be standardised by the relevant standards organisations
- In spite of standards, the selection of products and materials is extensive; therefore each network operator must specify the cable types, plug types, applicability, quality, etc. to be used when constructing fibre optic networks and domestic installations
- There is a high probability that network operators would make a different selection in the case of their particular specification.

2. Content and scope of standard

- Reference model
 - Where are the hook-up interfaces (physical interconnection)
- Interface at building entry point
 - Connection type, requirements of the housing, identification of fibres
- Vertical cabling
 - Type of fibre optic cable, number of fibres
- Interface inside the dwelling
 - Plug type, socket
- Processes