Pre-terminated FTTH Kit

Installation Guidelines

Contents

Purpose & Scope

This document provides guidelines on installation and use of Prysmian Pre-terminated FTTH Kit.

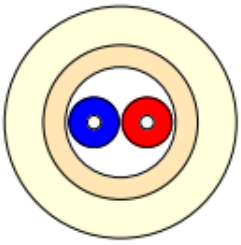
Precautions and Warnings

- This guide is only valid for products purchased from or approved by Prysmian Group.
- During this procedure all local Health & Safety statutory regulations must be adhered to.

Product Information

The Pre-terminated FTTH kit is designed for use in residential and business applications. The kit is supplied on a cardboard reel with a length of cable 4.2mm in diameter and contains 2 G657A2 fibres pre-terminated with LC/UPC connectors in the factory. The standard lengths of cable supplied are 50, 100, 150 and 200 metres. Two labels of “FIBRE OPTIC - DO NOT REMOVE” are also supplied in the packing box.

Cable Design



Semi-tight optical fibre: coloured 900µ semi-tight buffered BendBright®^{XS} fibre. Easy strippable.

Reinforcement and protection: dielectric yarns.

Outer Sheath: LSZH-FR material.

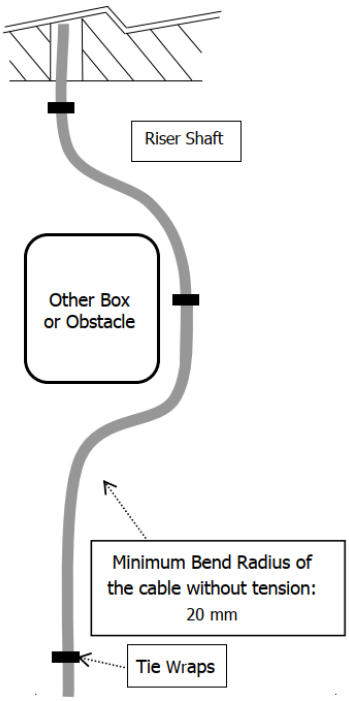
Cable Technical Data

# Fibres	≤	**2**		
Cable Diameter	mm	4.2		
Cable Weight	kg / km	18		
Max installation tension	daN	40		
Min. bending radius	mm	Without Tension: 20 mm		
Temperature range	°C	Installation -5 -> +60	Transport. & Storage -40 -> +70	Operation -30 -> +60

Installation Guidelines

- The cable can be simply pulled out of the box and installed by conventional pulling techniques.

- The maximum installation tension of this cable is 40 daN.
- During the installation of the cable ensure that the cable does not twist. Use a swivel (between the draw-rope and cable) in the event of the cable being pulled by a draw-rope.
- Do not exceed the recommended minimum bend diameter of the cable.
- The cable is designed to be installed in the building riser and fixed to the wall/ladder frame every 2m.
- When securing internal cables to ladder racking ensure that the ties (nylon or Velcro) do not damage the cable sheath.
- When the cable is installed in a vertical riser of more than 10 floors it is necessary to install a single loop (360º) the cable to reduce the strain on the optical fibres. It is recommended that this single loop is typically installed every 10th +/- 2 floor assuming a floor to ceiling height of 5 mts. Care should be taken to ensure that the cable loop does not infringe the minimum bend diameter of the cable.
- Any cable deviation around boxes etc. within the riser should be arranged as a sweeping bend (see below).



- When the cable is installed and the connectors are plugged into the adapters, a label of “FIBRE OPTIC - DO NOT REMOVE” shall be put on the cable close to the connectors to make it easily visible to avoid damaging during operation.