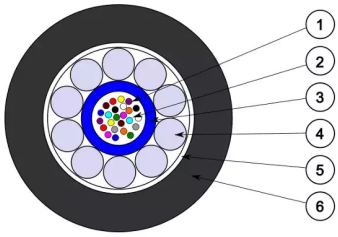
LANmark-OF UD PE (Unitube Dielectric Armoring - Outdoor)

LANMARK-OF UDPE 12X SINGLEMODE 9/125 OS2 BLACK

Aginode Ref: N164.UDPE12B

- UD optical fibre cables
- Suitable for outdoor in ducts or direct burial
- Full dielectric armour
- Available in all fibre grades and till 24 fibres
- Rodent resistance





STANDARDS

ISO/IEC 11801

Description and Application

The LANmark-OF UDPE cable is designed as a outside campus cable. It can be pulled or pushed inside ducts, or can be also directly buried. Its full dielectric armouring does not provide an electrical path and hence the cable can be used to connect buildings.

The central loose tube is surrounded by robust strength elements: Fibre Reinforced Plastic (FRP) units. These FRP provide a high rodent resistant and a high resistant against impacts and compression. There are 9 FRP for fiber counts up to 12FO and then 10 FPR for structure up to 24FO.

The loose tube design has a capacity of up to 24 fibres. Diameter of the fibres is 250 µm. Termination of these fibres is done with splicing of pigtails.

The cable is watertight due to the gel in the loose tube and the watertight bending elements.

Construction

Legend accompanying the cross section drawing:

1. Optical fibres (250 um)
2. Gel
3. Loose tube
4. Peripheric Fibre Reinforced Plastic strength elements
5. Binding and waterblocking elements
6. HDPE outer jacket with UV resistant additive

Characteristics

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Aginode is indicative only and shall not be binding on Aginode or be treated as constituting a representation on the part of Aginode.

- Outdoor cable for installation in a duct or direct burial
- Designed for termination by splicing
- Central loose tube design
- All dielectric design with FRP reinforcement and glass yarns
- Waterproof structure, rodent resistant and UV-resistant
- Available in all fibre grades
- Available from 4-24 fibres
- Excellent friction properties

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LANmark-OF UDPE 12x Singlemode 9/125 OS2 Black

Characteristics

Construction characteristics	
Fiber optic type	SM (G657.A1)
Dimensional characteristics	
Approximate weight	62 kg/km
Number of optical fibres	12
Nominal outer diameter (mm)	8.1 mm
Mechanical characteristics	
Mechanical resistance to impacts	100 impacts of 3 N.m
Maximum operating pulling force	1200 N
Maximum pulling force (IEC 60794-1-2-E1)	3200 N
Crush resistance (IEC 60794-1-E3)	300 N/cm
Usage characteristics	
Operating temperature, range	-30...60 °C
Minimum dynamic operating bending radius	205.0 mm
Minimum static operating bending radius	160 mm
Storage temperature, range	-40...70 °C
Ambient installation temperature, range	0...40 °C

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