

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

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

Nexans 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

## DESCRIPTION

### 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 armoring 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.

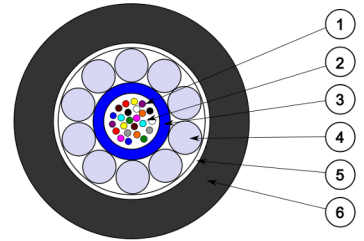
The loose tube design has a capacity of up to 24 fibres. Diameter of the fibres is 250  $\mu$ m. Termination of these fibres is done with splicing of pigtails.

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  $\mu$ m)
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



LANmark-OF

## STANDARDS

International ISO/IEC 11801



Mechanical resistance to impacts  
100 impacts of 3 N.m



Ambient installation T<sup>o</sup>C range  
0 ... 40  $^{\circ}$ C



Operating temp. range  
-30 ... 60  $^{\circ}$ C



Storage temperature, range  
-40 ... 70  $^{\circ}$ C



Min. dynamic operating bending rad.  
205.0 mm



Static bending rad.  
160 mm

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

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## Characteristics

- 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

## CHARACTERISTICS

### Construction characteristics

Fiber optic type SM (G657.A1)

### Dimensional characteristics

Number of optical fibres 12

Approximate weight 62 kg/km

Nominal outer diameter 8.1 mm

### Mechanical characteristics

Maximum pulling force (IEC 60794-1-2-E1) 3200 N

Maximum operating pulling force 1200 N

Mechanical resistance to impacts 100 impacts of 3 N.m

Crush resistance (IEC 60794-1-E3) 300 N/cm

### Usage characteristics

Ambient installation temperature, range 0 ... 40 °C

Operating temperature, range -30 ... 60 °C

Storage temperature, range -40 ... 70 °C

Minimum dynamic operating bending radius 205.0 mm

Minimum static operating bending radius 160 mm



Mechanical resistance to impacts  
100 impacts of 3 N.m



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