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LANmark-OF UD PE

LANmark-OF UD 24x Singlemode 9/125 OS2 PE Black

Nexans ref.: N164.691

- 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

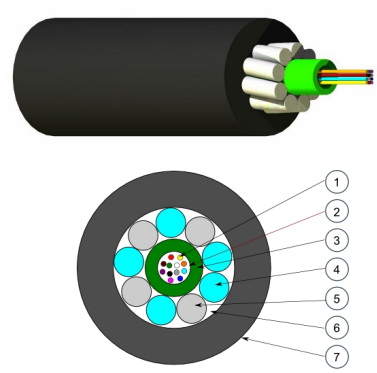
Description and Application

The LANmark-OF UD PE cable is designed as a campus cable. It can be pulled in a duct outside or can be direct buried. Its full dielectric armouring does not provide an electrical path and hence the cable can be used to connect 2 buildings.

The central loose tube is surrounded by robust strength elements: Fibre Reinforced Plastic (FRP) elements. These FRP provide the cable with a high rodent resistant and a high resistant against impacts and compression. There are 4 x FRP and 5 x fillers for fibre counts 4-12. For 14-24 fibres there are 5 X FRP and 5 X fillers.

The loose tube design has a capacity of up to 24 fibres. Diameter of the fibres is 250 um. 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 glass yarns.



LANmark-OF

Standards

International ISO/IEC 11801

Construction

Legend accompanying the cross section drawing:

1. Optical fibres (250 um)
2. Gel
3. Loose tube
4. Fillers
5. Fibre Reinforced Plastic strength elements
6. Reinforced watertight glass yarns
7. PE outer jacket with UV resistant additive

Mechanical resistance to impacts	Ambient installation T°C range	Operating temp. range	Storage temperature, range	static bending rad.	Min. dynamic operating bending rad.
100 impacts of 5 N.m	0 .. 40 °C	-30 .. 60 °C	-40 .. 70 °C	180 mm	225.0 mm

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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 (G.652D)
Dimensional characteristics	
Number of optical fibres	24
Nominal outer diameter	9.1 mm
Approximate weight	73 kg/km
Mechanical characteristics	
Maximum pulling force (IEC 60794-1-2-E1)	1450 N
Maximum operating pulling force	700 N
Mechanical resistance to impacts	100 impacts of 5 N.m
Crush resistance (IEC 60794-1-E3)	400 N/cm
Usage characteristics	
Ambient installation temperature, range	0 .. 40 °C
Operating temperature, range	-30 .. 60 °C
Storage temperature, range	-40 .. 70 °C
Minimum static operating bending radius	180 mm
Minimum dynamic operating bending radius	225.0 mm


Mechanical resistance to impacts
100 impacts of 5 N.m


Ambient installation T°C range
0 .. 40 °C


Operating temp. range
-30 .. 60 °C


Storage temperature, range
-40 .. 70 °C


static bending rad.
180 mm


Min. dynamic operating bending rad.
225.0 mm