

LANmark-OF UC Universal Eca

LANmark-OF UC Universal 12x Singlemode 9/125 OS2 LSZH Eca Black

Nexans ref.: [N164.UCUN12B](#)

UC optical fibre cables

- Indoor/Outdoor cable
- Corrugated steel tape armour
- Gel filled tube
- All fibre grades
- Provides full rodent protection
- Low Smoke Zero Halogene (LSZH)

DESCRIPTION

Description and Application

The construction is suitable for indoor/outdoor use. It consists of a corrugated steel tape armouring providing full rodent protection. It is surrounded by glass yarns. The cable has a LSZH outer jacket.

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.

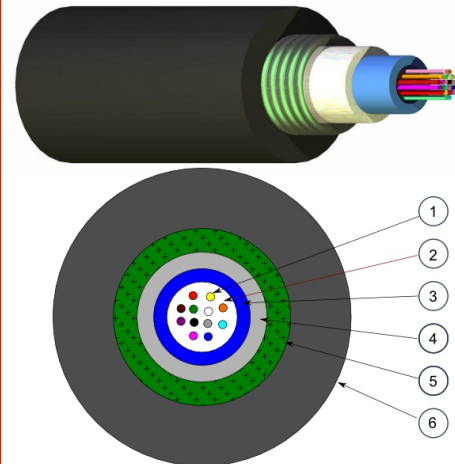
Construction

Legend accompanying the cross section drawing:

1. Optical fibres (250 um)
2. Gel
3. Loose tube
4. Reinforced watertight glass yarns
5. Corrugated steel tape armour
6. LSZH outer jacket with UV resistant additive

Characteristics

- Indoor/Outdoor cable
- Flame retardant (IEC 60332-1 and NFC 32070 C2) and fire retardant (IEC 60332-3 and NFC 32070 C1)
- Designed for termination by splicing
- Central loose tube design
- Corrugated steel protection
- Waterproof structure, rodent resistant and UV-resistant
- Available in all fibre grades
- Available from 4-24 fibres



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DECLARATION OF PERFORMANCE

Reaction to fire: E_{ca}
according to EN50575:2014
+A1:2016

STANDARDS

International ISO/IEC 11801



Reaction to fire
E_{ca}



Mechanical
resistance to
impacts
3 impacts of 5 N.m



Flame retardant
IEC 60332-1



Fire retardant
IEC 60332-3



Static bending rad.
130 mm



Min. dynamic
operating bending
rad.
170.0 mm



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



Operating temp.
-40 .. 60 °C

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CHARACTERISTICS

Construction characteristics

Fiber optic type SM (G657.A1)

Dimensional characteristics

Number of optical fibres 12

Nominal outer diameter 8.5 mm

Approximate weight 104 kg/km

Mechanical characteristics

Maximum pulling force (IEC 60794-1-2-E1) 1500 N

Maximum operating pulling force 450 N

Mechanical resistance to impacts 3 impacts of 5 N.m

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

Usage characteristics

Flame retardant IEC 60332-1

Fire retardant IEC 60332-3

Minimum static operating bending radius 130 mm

Minimum dynamic operating bending radius 170.0 mm

Ambient installation temperature, range 0 .. 40 °C

Operating temperature, range -40 .. 60 °C

Storage temperature, range -40 .. 60 °C