

# LANmark-OF Micro-Bundle Universal (24F-96F)

## Eca

LANmark-OF Micro-Bundle Universal 24x Multimode 50/125 OM3 LSZH  
Eca Black

Nexans Ref.: N165.MBUN24

- Micro-Bundle Universal optical fibre cable
- Indoor cable and outdoor installation in a duct
- Fully waterproof and rodent resistant
- Small, but mechanical strong cable
- Designed for splicing with pigtails
- 24-96 fibres and available in all fibre grades

## DESCRIPTION

### Description and Application

The new Micro-Bundle technology from Nexans allows to manufacture a flexible and small tube. This Micro-Bundle is the central part of the new "LANmark-OF Micro-Bundle Universal" cable design. Each Micro-Bundle contains 12 fibres with a fibre diameter of 250  $\mu\text{m}$ . Termination of these fibres is done with splicing with pigtails.

Up to 8 Micro-Bundles are arranged around a central strength element. The combination of the Micro-Bundle technology, the central strength element and the glass yarns result in a mechanical robust, but also in a small and flexible cable.

The small bending radius of the LANmark-OF Micro-Bundle Universal makes the cable easy to arrange in patch panels, in cable trays and in ducts.

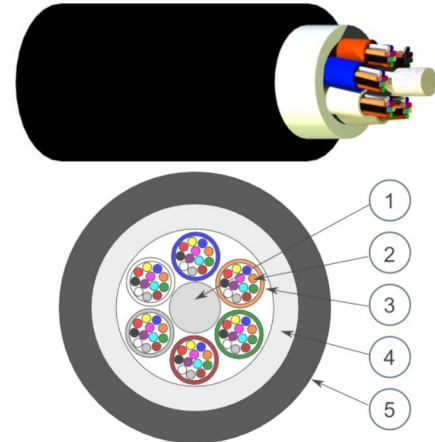
The watertight glass yarns and the very limited amount of gel inside the tube make the LANmark-OF Micro-Bundle Universal design watertight, rodent resistant and suitable for installation outdoor in a duct by pulling.

The LANmark-OF Micro-Bundle Universal complies with the indoor fire requirements. Since there is no drip effect of the very limited amount of gel the cable is optimised for both horizontal and vertical installations.

### Construction

Legend accompanying the cross section drawing:

1. Central strength element
2. Optical fibre (250  $\mu\text{m}$ )
3. Micro-Bundle with 12 fibres
4. Reinforced watertight glass yarns
5. Outer sheath in LSZH material with UV resistant additive



**LANmark-OF**

## DECLARATION OF PERFORMANCE

Eca

## STANDARDS

International ISO/IEC 11801



Mechanical resistance to impacts  
10 impacts of 1 N.m



Flame retardant  
IEC 60332-1



Fire retardant  
IEC 60332-3



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



Operating temp.  
-30 ... 60 °C



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



Gases corrosivity  
IEC 60754-1; IEC 60754-2



Min. dynamic operating bending rad.  
150.0 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

- Micro-Bundle design for easy installation
- Indoor cable for horizontal and vertical installations
- Flame retardant (IEC 60332-1)
- Fire retardant (IEC 60332-3)
- Outdoor cable for installation in a duct
- Waterproof structure, rodent resistant and UV-resistant
- All dielectric design
- Designed for termination by splicing
- 12 fibres per Micro-Bundle
- Available in 24, 48 and 96 fibres
- Available in all fibre grades
- Gas Toxicity (IEC 60754) and Smoke Density (IEC61034)

## CHARACTERISTICS

### Construction characteristics

Fiber optic type OM3 50/125

### Dimensional characteristics

Number of optical fibres 24

Approximate weight 64 kg/km

Nominal outer diameter 7.2 mm

### Mechanical characteristics

Mechanical resistance to impacts 10 impacts of 1 N.m

Crush resistance (IEC 60794-1-E3) 100 N/cm

Maximum operating pulling force 600 N

Maximum pulling force (IEC 60794-1-2-E1) 2000 N

### Usage characteristics

Flame retardant IEC 60332-1

Fire retardant IEC 60332-3

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

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

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

Gases corrosivity IEC 60754-1; IEC 60754-2

Minimum dynamic operating bending radius 150.0 mm

Minimum static operating bending radius 75 mm

Smoke density IEC 61034



Mechanical resistance to impacts  
10 impacts of 1 N.m



Flame retardant  
IEC 60332-1



Fire retardant  
IEC 60332-3



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