

# LANmark-OF Micro-Bundle Universal (6F-12F)

## Dca

LANmark-OF Micro-Bundle Universal 12x Multimode 50/125 OM3 LSZH  
Dca s1d0a1 Black

Nexans Ref.: N165.MBUN12

- Micro-Bundle Universal optical fibre cable
- Indoor cable and outdoor installation in a duct
- Fully waterproof and rodent retardant
- Designed for splicing with pigtails
- 4-12 fibres and available in all fibre grades

## DESCRIPTION

### Description and Application

The new Micro-Bundle technology from Nexans allows to manufacture a very flexible and small tube that is the central part of the new “LANmark-OF Micro-Bundle Universal” cable design. This results in a small, flexible, but mechanical robust cable. The central tube contains up till 12 fibres with a fibre diameter of 250 µm. Termination of these fibres is done with splicing with pigtails.

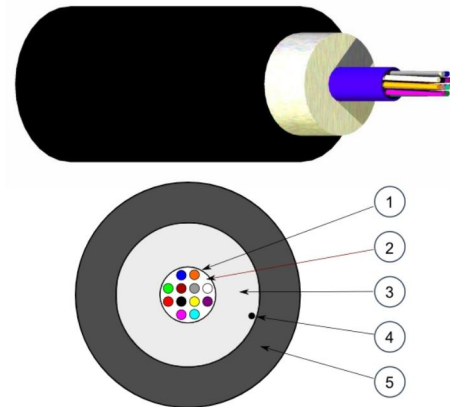
The small bending radius of the Micro-Bundle makes the cable easy to arrange in patch panels and for installations in data centres and backbones.

The watertight glass yarns and the very limited amount of gel inside the tube makes this cable design watertight and suitable for installation outdoor in a duct by pulling.

The fire performance of the LANmark-OF Micro-Bundle Universal allows indoor installation as well. Since there is no drip effect of the very limited amount of gel the cable is optimised for both horizontal and vertical installations.

### Construction

1. Central Micro-Bundle
2. Optical fibres (250 µm)
3. Reinforced watertight glass yarns
4. Ripcord
5. LSZH outer jacket with UV resistant additive



**LANmark-OF**

## DECLARATION OF PERFORMANCE

Dca-s1,d0,a1

## STANDARDS

International ISO/IEC 11801



Mechanical resistance to impacts  
1 impact of 3 N.m



Flame retardant  
IEC 60332-1



Fire retardant  
IEC 60332-3



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



Operating temp.  
-20 ... 60 °C



Storage temperature, range  
-40 ... 60 °C



Gases corrosivity  
IEC 60754-1; IEC 60754-2



Min. dynamic operating bending rad.  
60.0 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

- Indoor cable for horizontal and vertical installation
- Outdoor cable for installation in a duct
- Designed for termination by splicing
- Central Micro-Bundle design for easy installation
- All dielectric
- Waterproof structure, Rodent retardant and UV-resistant
- Flame retardant (IEC 60332-1) and fire retardant (IEC 60332-3)
- Available in all fibre grades and from 4-12 fibres
- Gas Toxicity (IEC 60754) and Smoke Density (IEC61034)



Mechanical  
resistance to  
impacts  
1 impact of 3 N.m



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### CHARACTERISTICS

#### Construction characteristics

Fiber optic type OM3 50/125

#### Dimensional characteristics

Number of optical fibres 12

Approximate weight 45 kg/km

Nominal outer diameter 6.0 mm

#### Mechanical characteristics

Maximum pulling force (IEC 60794-1-2-E1) 2200 N

Maximum operating pulling force 700 N

Crush resistance (IEC 60794-1-E3) 200 N/cm

Mechanical resistance to impacts 1 impact of 3 N.m

#### Usage characteristics

Flame retardant IEC 60332-1

Fire retardant IEC 60332-3

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

Operating temperature, range -20 ... 60 °C

Storage temperature, range -40 ... 60 °C

Gases corrosivity IEC 60754-1; IEC 60754-2

Minimum dynamic operating bending radius 60.0 mm

Minimum static operating bending radius 60 mm

Smoke density IEC 61034