

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

LANmark-OF Micro-Bundle Universal 24x Singlemode 9/125 OS2 LSZH  
Cca Yellow

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Nexans Ref.: N164.MBUN24-YC

- 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 fibres in micro-bundles of 12 fibres

## 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 µm. Termination of these fibres is done with splicing with pigtails.

Several 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.

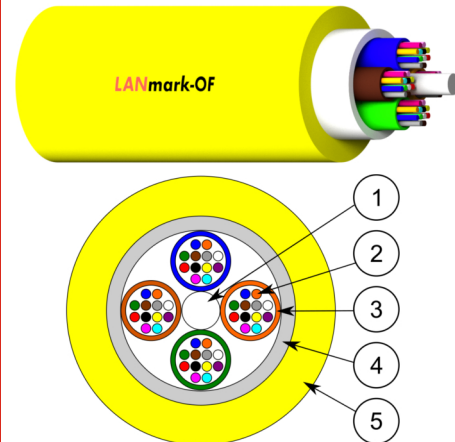
The watertight glass yarns and the very limited amount of gel inside the tube make the LANmark-OF Micro-Bundle Universal design watertight, rodent resistant and suitable for installation outdoor in a duct by pulling.

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 µm)
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

Cca-s1a,d1,a1

## STANDARDS

International ISO/IEC 11801



Halogen free  
IEC 60754-1



Mechanical  
resistance to  
impacts  
10 impacts of 1  
N.m



Flame retardant  
IEC 60332-1



Fire retardant  
IEC 60332-3



Smoke density  
IEC 61034-2



Gases toxicity  
IEC 60754-1



U.V resistance  
Very good



Operating temp.  
-20 - 60 °C

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 all fibre grades
- Gas Toxicity (IEC 60754) and Smoke Density (IEC61034)
- Reaction fo fire: Cca according to EN50575:2014 +A1:2016
- Sheath Color: Aqua (OM3-OM4), Lime Green (OM5), Yellow (OS2)

## CHARACTERISTICS

### Construction characteristics

Strength member	Central FRP
Construction type	Multibundle
Fiber optic type	SM (G657.A1)
Outer sheath	LSZH
Halogen free	IEC 60754-1
Metal free	Yes

### Dimensional characteristics

Nominal outer diameter	5.9 mm
Number of optical fibres	24
Approximate weight	35 kg/km

### Mechanical characteristics

Maximum installation tension	800 N
Maximum permanent tensile load	0.2 kN
Crush resistance (IEC 60794-1-E3)	100 N/cm
Mechanical resistance to impacts	10 impacts of 1 N.m

### Usage characteristics

Flame retardant	IEC 60332-1
Fire retardant	IEC 60332-3
Smoke density	IEC 61034-2



Halogen free  
IEC 60754-1



Mechanical  
resistance to  
impacts  
10 impacts of 1  
N.m



Flame retardant  
IEC 60332-1



Fire retardant  
IEC 60332-3



Smoke density  
IEC 61034-2



Gases toxicity  
IEC 60754-1



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Very good



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### Usage characteristics

Gases toxicity	IEC 60754-1
Installation type	Indoor/Outdoor
U.V resistance	Very good
Operating temperature, range	-20 - 60 °C
Storage temperature, range	-40 - 60 °C
Installation temperature, range	0 - 40 °C
Minimum static operating bending radius	90 mm
Laying operation bending radius	120 mm



Halogen free  
IEC 60754-1



Mechanical  
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Flame retardant  
IEC 60332-1



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