

LANmark-OF Micro-Bundle Universal (144F) Cca

LANmark-OF Micro-Bundle Universal 144x Multimode 50/125 OM3
LSZH Cca s1ad0a1 Aqua

Nexans Ref.: N165.MBUN144-AC

- Micro-Bundle Universal optical fibre cable with High Level of Fire Performance
- Reaction to fire Cca -s1a,d0,a1 according to EN50575:2014+A1:2016
- Indoor cable and outdoor installation in a duct
- Fully waterproof and rodent resistant
- Small, but mechanical strong cable
- Bundle extraction over 2 meters
- Designed for splicing with pigtailed

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 pigtailed.

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.

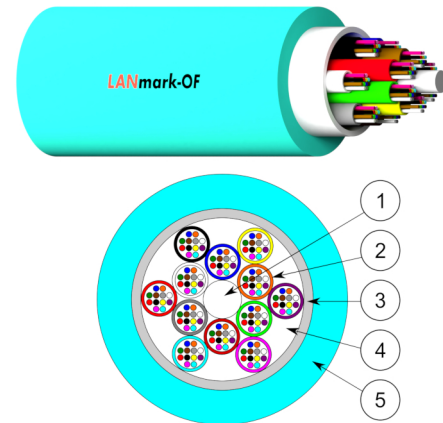
The watertight glass yarns and the very limited amount of gel inside the tube make the LANmark-OF Micro-Bundle Universal design watertight, rodent resistant and suitable for installation outdoor in a duct by pulling.

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,d0,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



U.V resistance
Very good



Operating temp.
-20 ... 60 °C



Storage
temperature, range
-40 ... 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 & NFC 32070 C2)
- Fire retardant (IEC 60332-3 & NFC 32070 C1)
- Outdoor cable for installation in a duct by pulling
- Waterproof structure, rodent resistant and UV-resistant
- All dielectric design
- Designed for termination by splicing
- 12 fibres per Micro-Bundle
- Smoke Density (IEC61034)
- Reaction fo fire: Cca a1d0s1 according to EN50575:2014 +A1:2016
- Sheath Color: Aqua (OM3)

CHARACTERISTICS

Construction characteristics

Strength member	Central FRP
Construction type	Multibundle
Fiber optic type	OM3 50/125
Outer sheath	LSZH
Halogen free	IEC 60754-1
Metal free	Yes

Dimensional characteristics

Nominal outer diameter	9.3 mm
Number of optical fibres	144
Approximate weight	86 kg/km

Mechanical characteristics

Maximum installation tension	2000 N
Maximum permanent tensile load	0.45 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
Installation type	Indoor/Outdoor



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
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Usage characteristics

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	140 mm
Laying operation bending radius	190 mm



Halogen free
IEC 60754-1



Mechanical
resistance to
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10 impacts of 1
N.m



Flame retardant
IEC 60332-1



Fire retardant
IEC 60332-3



Smoke density
IEC 61034-2



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