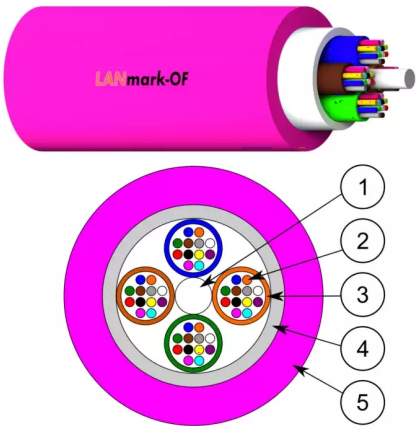
LANmark-OF Micro-Bundle Universal (24F-96F) Cca

LANMARK-OF MICRO-BUNDLE UNIVERSAL 48X MULTIMODE 50/125 OM4 LSZH CCA VIOLET

Aginode Ref: N167.MBUN48-VC

- Micro-Bundle Universal optical fibre cable
- Indoor cable and outdoor installation in a duct
- Fully waterproof and rodent resistant
- Small, but mechancial strong cable
- Bundle extraction over 2 meters
- Designed for splicing with pigtails
- Micro-bundles of 12fibres



STANDARDS

ISO/IEC 11801

Description and Application

The new Micro-Bundle technology from Aginode 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 um. 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

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Aginode is indicative only and shall not be binding on Aginode or be treated as constituting a representation on the part of Aginode.

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

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), Violet (OM4), Lime Green (OM5), Yellow (OS2)

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LANmark-OF Micro-Bundle Universal 48x Multimode 50/125 OM4 LSZH Cca Violet

Characteristics

Construction characteristics	
Fiber optic type	OM4 50/125
Outer sheath	LSZH
Halogen free	IEC 60754-1
Metal free	Yes
Construction type	Multibundle
Dimensional characteristics	
Approximate weight	35 kg/km
Number of optical fibres	48
Nominal outer diameter (mm)	5.9 mm
Mechanical characteristics	
Mechanical resistance to impacts	10 impacts of 1 N.m
Maximum permanent tensile load	0.2 kN
Crush resistance (IEC 60794-1-E3)	100 N/cm
Maximum installation tension	800 N
Usage characteristics	
Operating temperature, range	-20...60 °C
Fire retardant	IEC 60332-3
Minimum static operating bending radius	90 mm
Flame retardant	IEC 60332-1
Smoke density	IEC 61034-2
U.V resistance	Very good
Storage temperature, range	-40...60 °C
Laying operation bending radius	120 mm
Installation type	Indoor/Outdoor
Installation temperature, range	0...40 °C

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