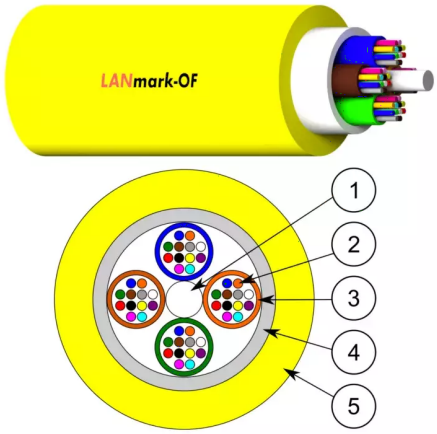
# LANmark-OF Micro-Bundle Universal (24F-96F) Cca

**LANMARK-OF MICRO-BUNDLE UNIVERSAL 48X SINGLEMODE 9/125 OS2 LSZH CCA YELLOW**




**Aginode Ref:** N164.MBUN48-YC

- 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

## 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

## STANDARDS

ISO/IEC 11801

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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

## 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 Singlemode 9/125 OS2 LSZH Cca Yellow

## Eigenschaften

| | |
|---|---|
| **Konstruktionsmerkmale** | |
| Fasertyp | SM (G657.A1) |
| Außenmantel | LSZH |
| Halogenfrei | IEC 60754-1 |
| Metallfrei | Yes |
| Leitungsaufbau | Multibundle |
| **Abmessungsmerkmale** | |
| Nettogewicht ca. | 35 kg/km |
| Anzahl der optischen Fasern | 48 |
| Außendurchmesser, nom. | 5.9 mm |
| **Mechanische Eigenschaften** | |
| Mechanische Festigkeit gegen Schläge | 10 impacts of 1 N.m |
| Maximalzulässige Dauerzuglast | 0.2 kN |
| Querdruckwiderstand (IEC 794-1-E3) | 100 N/cm |
| Maximale Zugspannung bei Installation | 800 N |
| **Anwendungsmerkmale** | |
| Betriebstemperatur | -20...60 °C |
| flammwidrig | IEC 60332-3 |
| Mindestbiegeradius bei statischem Einsatz | 90 mm |
| Flammwidrig | IEC 60332-1 |
| Rauchdichte | IEC 61034-2 |
| UV Beständigkeit | Very good |
| Lagertemperatur, Bereich | -40...60 °C |
| Biegeradius während Verlegung | 120 mm |
| Art der Installation | Indoor/Outdoor |
| Umgebungstemperatur, Bereich | 0...40 °C |

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## Erklärung zur Leistung

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