# LANmark-OF Loose Tube Universal 48 - 72 - 96 & 144FO - Cca

**LANMARK-OF LOOSE TUBE UNIVERSAL 48XSINGLEMODE 9/125 OS2 LSZH CCA YELLOW**

**Aginode Ref:** N164.LTUN48-YC

- Loose Tube Universal optical fibre cable with high-level transmission: OS2
- High fire performance: Reaction to fire Cca according to EN50575:2014+A1:2016
- Indoor/Outdoor cable
- Designed for splicing with pigtails



## STANDARDS

ISO/IEC 11801

The new **48FO OS2 Loose Tube technology** from Aginode is specifically engineered for indoor buildings & outdoor where installations require both high performance and fire safety. Designed with a loose tube construction, it offers excellent protection for fibers against mechanical stresses and environmental factors.

- **CPR (Cca s1a, d1, a1):** Low fire propagation, reduced smoke emission, and minimal toxic gas release.
- **Loose Tube Construction:** Excellent fiber protection against mechanical stress and temperature variations.
- **Indoor & Outdoor installation :** Ideal for structured cabling in residential, commercial, and public buildings, with environmental resistance for exposed sections.
- **High Performance OS2:** Reliable, high-speed data transmission over long distances.
- **Flexible and Robust**
- **UV-Resistant & Waterproof**: Designed to withstand outdoor conditions when required.

The central tube contains up to 48 fibers organized in 4 bundles of 12 fibers, each clearly identified to simplify installation.

**Applications:**

- Building backbone networks
- Data centers
- Outdoor installations

*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.*

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## Characteristics

| | |
|---|---|
| **구조적 특성** | |
| 구조 | 루즈 튜브 |
| Fiber optic type | SM (G657.A1) |
| Halogen free | IEC 60754-2 |
| Material used for longitudinal water tightness | Jelly |
| 피복 | 저연 할로겐 프리 |
| **치수** | |
| 무게(근사치) | 105 kg/km |
| Nominal outer diameter (mm) | 10.4 mm |
| Number of optical fibres | 48 |
| Number of tubes | 4 |
| **기계적 특성** | |
| Crush resistance (IEC 60794-1-E3) | 2000/10 N/cm |
| Maximum pulling force (IEC 60794-1-2-E1) | 1800 N |
| Mechanical resistance to impacts (IEC 60794-1-E4) | 20 N · m |
| Nominal permanent tensile strength | 0.6 kN |
| **사용 특성** | |
| 난연 | IEC 60332-3-24 |
| Installation temperature, range | -20...60 °C |
| Installation type | Indoor/Outdoor |
| Minimum dynamic operating bending radius | 208 mm |
| Minimum static operating bending radius | 104 mm |
| 操作温度范围 | -40...70 °C |
| 연기밀도 | IEC 61034-2 |
| Storage temperature, range | -30...60 °C |
| U.V resistance | Yes |

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## DoP: Declaration of Performance

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