# FK24 Multi-fiber Cable Multi-Mode OM4 24 fibers, B2ca Euroclass and UV-resistant LSFH, indoor/outdoor, with rodent protection

24-fiber Multimode OM4 cable with UV-resistant LSFH sheath for indoor and outdoor installation. Each fiber is identified by a color and black ring coding system, making it easier to organize and identify.
It features a rodent-resistant finish using fiberglass yarns integrated into the sheath. This protection acts as a deterrent by being uncomfortable for rodents, preventing them from continuing to bite the cable without damaging the fiber. Compared to metallic protection, this method offers several advantages. As it is a non-metallic material, it does not rust and provides greater resistance to degradation caused by corrosion. It is also a dielectric protection that prevents the transmission of electrical energy through it, avoiding the issues associated with this. In addition, its lower weight significantly reduces the weight of the cable during transport and facilitates installation. Unlike chemical rodent protection, it does not produce smoke in case of fire. These fiberglass yarns also act as structural reinforcement, providing high tensile strength during installation.
Includes water-blocking yarns, providing a physical barrier that prevents water from spreading inside the cable. This prevents changes in the optical refractive index and avoids ice formation in freezing environments, reducing damage caused by moisture freezing.
The Euroclass B2ca is recommended for installation in sensitive buildings (airports, hospitals, shopping centres, schools, universities), which require high safety levels due to their high occupancy. The Euroclass B2ca guarantees an adequate level of safety in terms of reaction to fire and toxic smoke emissions, reducing the risks associated with fire.

Reference 231660 is supplied per metre.

| | |
|---|---|
| Ref. | 231661 |
| Logical ref. | OM4K24-2000NGT |
| EAN13 | 8424450337400 |

| Other features | |
|---|---|
| Colour | Black |
| Length | 2,000.00 m |

| Packaging info | |
|---|---|
| Reel | 2000 m |

| Physical data | |
|---|---|
| Net weight | 54.00 g |
| Gross volume | 0.06 $dm^3$ |
| Gross weight | 59.00 g |
| Width | 8.00 mm |
| Height | 1,000.00 mm |
| Depth | 8.00 mm |
| Main product weight | 54.00 g |

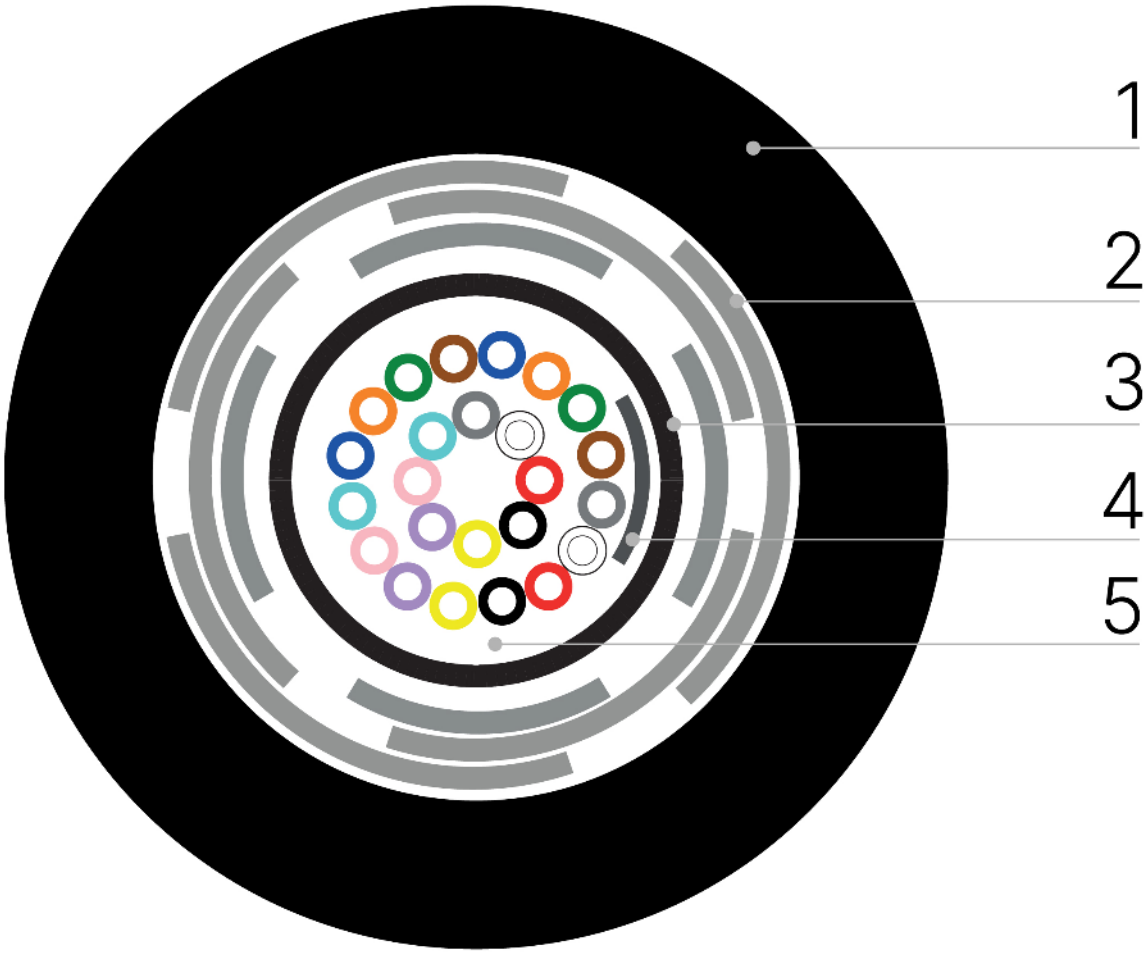
## Highlights

- B2ca-s2,d2,a1 Euroclass recommended for sensitive installations (Hospitals, airports...)
- Low attenuation
- Protection against water and moisture through water-blocking yarns within the cable structure, which absorb moisture and limit its propagation inside the cable, protecting the optical fibres against water ingress
- Fiberglass yarns for rodent protection, preventing damage to the optical fibres caused by rodent attack
- Loose tube for protecting and isolating the optical fibres, preventing them from being directly subjected to the mechanical stresses of the cable and allowing the fibres to move inside the tube to compensate for changes in length, bending and temperature variations
- Structural reinforcement using fiberglass, providing high tensile strength without the need for a central strength member
- 50/125, ITU-T G.651.1 fiber type
- UV-resistant LSFH sheath, black colour

## Mounting details

### DETAILED VIEW OF THE FIBRE SECTION

1. UV-resistant LSFH outer sheath
2. Rodent protection fibres
3. Loose tube
4. Water-blocking yarns
5. Optical fibre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# Technical specifications

**Ref. 231661**

| | | |
|---|---|---|
| Euroclass | | B2ca |
| Euroclass: Smoke Production | | s2 |
| Euroclass: Flaming droplets | | d1 |
| Euroclass: Acidity | | a1 |
| Number of fibers | | 24 |
| Fiber core type | | Multi-mode (ITU-T-G.651.1) |
| Optical fiber type category | | OM4 |
| Fiber core Diameter | µm | 50 |
| Fiber cladding Diameter | µm | 125 |
| Coating buffer Diameter | µm | 250 |
| Outer sheath Diameter | in | 0.287 |
| Outer sheath Material | | LSFH, UV-resistant |
| Blocking jelly | | No |
| Moisture protection | | Water-blocking yarns |
| Optical fiber attenuation: 850nm | dB/km | < 3.5 |
| Optical fiber attenuation: 1300nm | dB/km | < 1.5 |
| Long tension | N | 2000 |
| Structure reinforcement element | | Glass Yarns |
| Rodent protection | | Glass Yarns |
| Long crush (@100mm) | N | 1500 |
| Minimum bending radius | in | 2.874 |
| Operating temperature | °F | -40 ... 158 |