

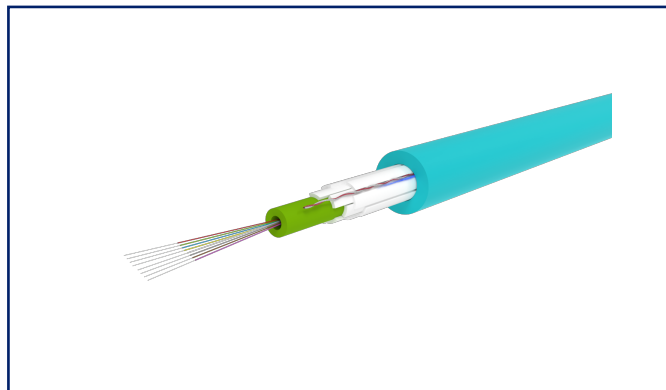
# Data sheet

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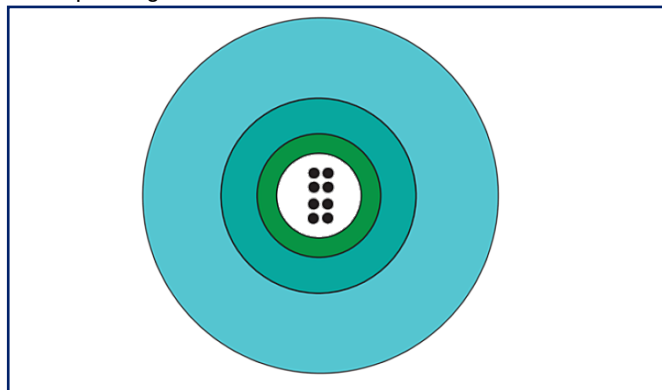
## OpDAT universal cable 1x8 OM3 class E<sub>ca</sub>

P/N  
150U0085E120M  
EAN 4251394653990  
2026/09/28  
Version: K

### Illustrations



Principle diagram



See enlarged drawings at the end of document

### Product specification

- installation cable U-DQ(ZN)BH
- universal fiber optic cable for indoors/outdoors with central tube (up to 24 fibers)
- bend insensitive fiber
- UV-resistant, metal-free, longitudinally waterproof, tensile strength and rodent repellent
- cable jacket: LSHF
- cable structure: filled loose tubes
- cable diameter for central loose tube 7.5 mm with 24 fibers per loose tube
- strain relief: longitudinally waterproof wrapping, glasroving elements
- for laying in ducts or directly in the ground in a suitable layer of sand
- applicable standards: EN 50173-1, ISO 11801 2nd edition, IEC 60794-1, EN 187000
- fire behaviour: class Eca (classification acc. to EN 13501-6)
- all available variants can be created with the configurator



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### Technical Data

#### General Data

|                                   |                                         |
|-----------------------------------|-----------------------------------------|
| Fields of application             | interior<br>structured building cabling |
| Transmission technology           | Fiber optic                             |
| Color coding fiber/ wire(s)       | IEC 60304                               |
| Mode type of the fiber            | Multimode                               |
| Fiber class                       | OM3                                     |
| Cable Type                        | Universal cable                         |
| Number of cables/ buffered fibers | 8                                       |
| Number of fibres each cable/ wire | 12                                      |
| Weight                            | 55 kg/km                                |
| Jacket color                      | aqua                                    |

#### Geometric characteristics

|                                    |           |
|------------------------------------|-----------|
| Outer diameter cable jacket (mm)   | 7.5 mm    |
| Outer diameter cable jacket (inch) | 0.295 in. |
| Core-/ Fiber cladding diameter     | 250 µm    |

#### Mechanical data

|                                   |                         |
|-----------------------------------|-------------------------|
| strain relief                     | central tension element |
| Tensile strength during operation | 1000 N                  |
| Maximum installation load (max.)  | 3000 N                  |
| Maximum installation load         | 75 mm                   |
| Maximum operating bending radius  | 150 mm                  |
| Impact resistance                 | 20 Nm                   |
| Crush (compressive strength)      | 3500 N/100 mm           |
| Torsion resistance                | 5 cycles ± 1 rotation   |
| Fire load                         | 1100 MJ/km              |

#### Materials and material properties

|                   |                  |
|-------------------|------------------|
| Rodent protection | rodent repellent |
| Halogen free      | yes              |
| Metal-free        | yes              |
| UV-resistance     | yes              |



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#### Environmental conditions

Temperature (min. - max.)

|                               |                 |
|-------------------------------|-----------------|
| Temperature - Storage °C      | -40 °C - 60 °C  |
| Temperature - Storage °F      | -40 °F - 140 °F |
| Temperature - Operating °C    | -30 °C - 70 °C  |
| Temperature - Operating °F    | -22 °F - 158 °F |
| Temperature - Installation °C | -15 °C - 40 °C  |
| Temperature - Installation °F | 5 °F - 104 °F   |

#### Standards/Regulations

Common test methods for cables under fire conditions

Fire behaviour - class (EN 50399)



Eca

#### Classifications

|          |          |
|----------|----------|
| ETIM 7.0 | EC000034 |
| ETIM 8.0 | EC000034 |

#### Packing details

|                   |                |
|-------------------|----------------|
| Type of packaging | 1 pc(s) / drum |
|-------------------|----------------|

#### Application note

This product is a standard product of METZ CONNECT. METZ CONNECT is not aware of the specific intended use of the goods by the Customer or any customers of the Customer. The Customer guarantees that it has fully and sufficiently tested the use of the goods and any product modifications, product changes or product enhancements with regard to the specific intended use in accordance with the state of the art or in any other way.



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