

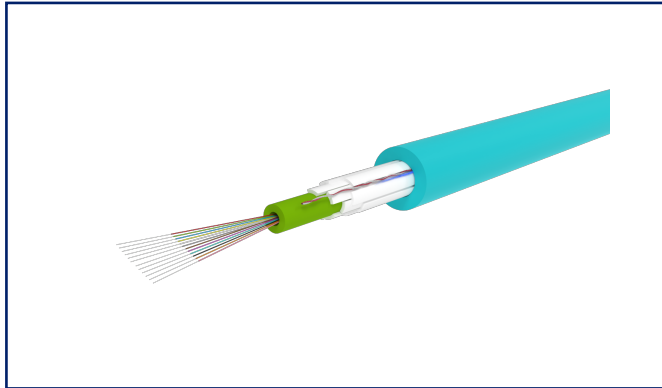
Data sheet

OpDAT universal cable 1x12 OM3 class E_{ca}

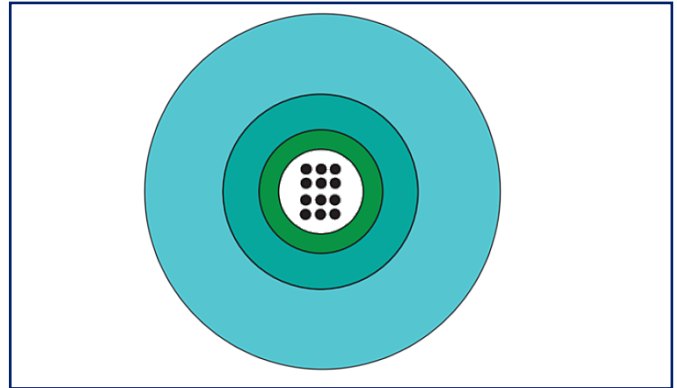
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P/N
150U0125E120M
EAN 4251394654034
2023/06/16
Version: F

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 or stranded loose tube
- 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 2 to 12 fibers per loose tube
- cable diameter for central loose tube 8.0 mm with 24 fibers per loose tube
- cable diameter with stranded loose tube 11.0 mm
- strain relief: longitudinally waterproof wrapping, glasroving elements
- stranded loose tubes: loose tubes grouped around a glass fiber reinforced plastic stick with a dia. of 2.5 mm
- 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)
- variants: number of OM5 fibers: 1x4, 1x8, 1x12, 1x24, 4x12
- variants: number of OM4 fibers: 1x4, 1x8, 1x12, 1x24, 4x12
- variants: number of OM3 fibers: 1x4, 1x8, 1x12, 1x24, 4x12
- variants: number of OM2 fibers: 1x4, 1x8, 1x12
- all available variants can be created with the configurator



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Technical Data

General Data

| | |
|-----------------------------------|---|
| Fields of application | interior structured building cabling |
| Transmission technology | Fiber optic |
| Jacket color | aqua |
| 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 | 12 |
| Number of fibres each cable/ wire | 12 |
| Weight | 55 kg/km |

Geometric characteristics

| | |
|------------------------------------|-----------|
| Outer diameter cable jacket (mm) | 7.3 mm |
| Outer diameter cable jacket (inch) | 0.287 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 | 73 mm |
| Maximum operating bending radius | 146 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 |
| RoHS | compliant |

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Technical Data

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 |
|-------------------|----------------|

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