

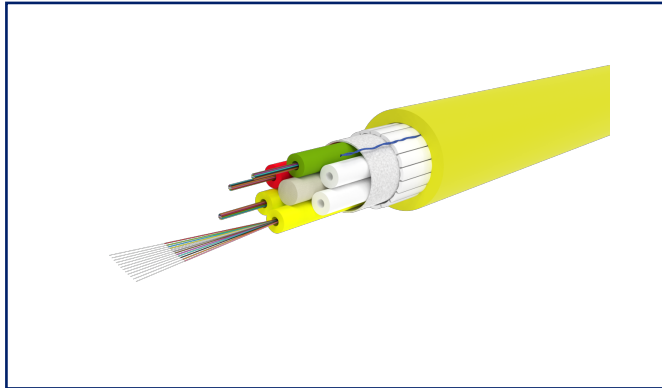
Data sheet

OpDAT universal cable 4x12 OS2 class E_{ca}

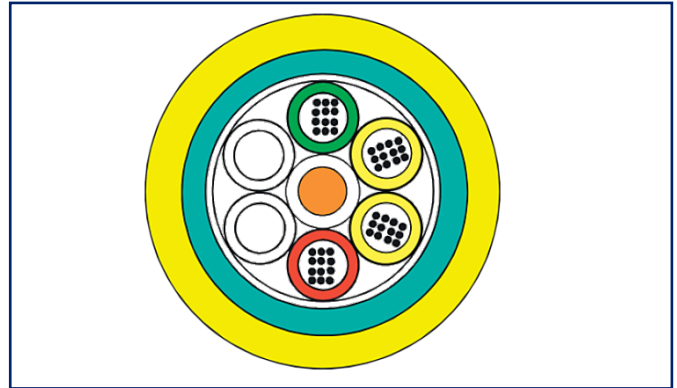
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P/N
150U0489E120M
EAN 4251394654096
2025/06/18
Version: K

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 stranded loose tube (48 fibres)
- bend insensitive fiber
- UV-resistant, metal-free, longitudinally waterproof, tensile strength and rodent repellent
- cable jacket: LSHF
- cable structure: filled loose tubes
- cable diameter with stranded loose tube 11.5 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)
- 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
Color coding fiber/ wire(s)	IEC 60304
Mode type of the fiber	Singlemode
Fiber class	OS2
Cable Type	Universal cable
Number of cables/ buffered fibers	48
Number of fibres each cable/ wire	12
Weight	105 kg/km

Geometric characteristics

Outer diameter cable jacket (mm)	11.2 mm
Outer diameter cable jacket (inch)	0.441 in.
Core-/ Fiber cladding diameter	250 µm

Mechanical data

strain relief	stranded strain relief elements
Tensile strength during operation	1800 N
Maximum installation load (max.)	5000 N
Maximum installation load	112 mm
Maximum operating bending radius	224 mm
Impact resistance	20 Nm
Crush (compressive strength)	3000 N/100 mm
Torsion resistance	5 cycles ± 1 rotation
Fire load	2142 MJ/km

Materials and material properties

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

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Technical Data

Environmental conditions

Temperature (min. - max.)	
Temperature - Storage °C	-40 °C - 70 °C
Temperature - Storage °F	-40 °F - 158 °F
Temperature - Operating °C	-40 °C - 70 °C
Temperature - Operating °F	-40 °F - 158 °F
Temperature - Installation °C	-40 °C - 70 °C
Temperature - Installation °F	-40 °F - 158 °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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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. At METZ CONNECT's request, the Customer shall submit and make available meaningful evidence (e.g. test and laboratory protocols, certifications, etc.).

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