

Data sheet

OpDAT industrial cable 2x1 OM3

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P/N

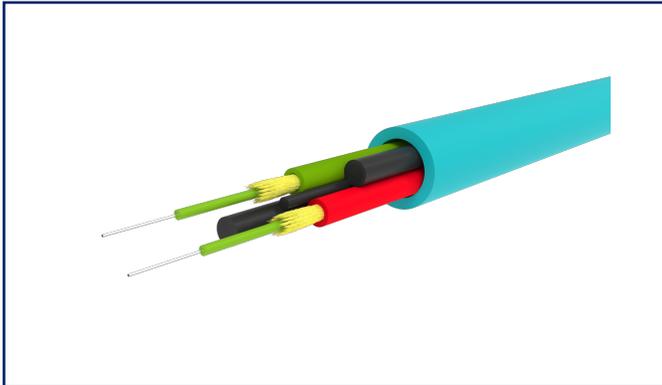
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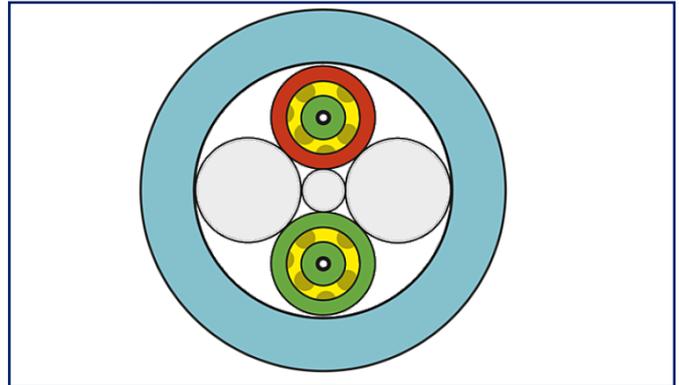
2025/06/17

Version: I

Illustrations



Principle diagram



See enlarged drawings at the end of document

Product specification

- industrial cable I-V(ZN)Y11Y2
- duplex cable with high abrasion resistance and chemical resistance for use as connecting cable or patch cable
- laser optimized, bend insensitive fiber (not as OM2)
- UV-, oil-, ozone- resistant and waterproof
- cable jacket: TPE-U (polyurethan)
- cable structure: two separately strain relieved cables in one outer jacket
- strain relief: aramid
- applicable standards: EN 50173-1, ISO 11801 2nd edition, ASTM-Öl No. 2 (to ISO 1817), DIN VDE 0473, part 811-2-1UV, DIN VDE 0472, part 805, category B, DIN EN ISO 4892-2, method A
- variants: yellow (OS2), orange (OM2), aqua (OM3), other on request
- all available variants can be created with the configurator



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Technical Data

General Data

| | |
|-----------------------------------|-----------------------|
| Fields of application | harsh environment |
| Transmission technology | Fiber optic |
| Mode type of the fiber | Multimode |
| Fiber class | OM3 |
| Cable Type | Industry patch cables |
| Number of cables/ buffered fibers | 2 |
| Number of fibres each cable/ wire | 1 |
| Weight | 80 kg/km |

Geometric characteristics

| | |
|------------------------------------|-----------------|
| Outer diameter cable jacket (mm) | 9.4 mm |
| Outer diameter cable jacket (inch) | 0.37 in. |
| Core-/ Fiber cladding diameter | 2,8 mm / 900 µm |

Mechanical data

| | |
|-----------------------------------|---------------|
| strain relief | aramide yarn |
| Tensile strength during operation | 600 N |
| Maximum installation load | 141 mm |
| Maximum operating bending radius | 94 mm |
| Crush (compressive strength) | 1000 N/100 mm |

Materials and material properties

| | |
|-------------------------|-----|
| Material - Fiber jacket | PVC |
| Halogen free | yes |
| Metal-free | yes |
| UV-resistance | yes |
| Oil resistance | yes |

Environmental conditions

| | |
|-------------------------------|-----------------|
| Temperature (min. - max.) | |
| Temperature - Storage °C | -25 °C - 70 °C |
| Temperature - Storage °F | -13 °F - 158 °F |
| Temperature - Operating °C | -10 °C - 70 °C |
| Temperature - Operating °F | 14 °F - 158 °F |
| Temperature - Installation °C | -5 °C - 50 °C |

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Environmental conditions

Temperature (min. - max.)

Temperature - Installation °F 23 °F - 122 °F

Standards/Regulations

Common test methods for cables under fire conditions

Fire behaviour - class (EN 50399)



Fca

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. At METZ CONNECT's request, the Customer shall submit and make available meaningful evidence (e.g. test and laboratory protocols, certifications, etc.).

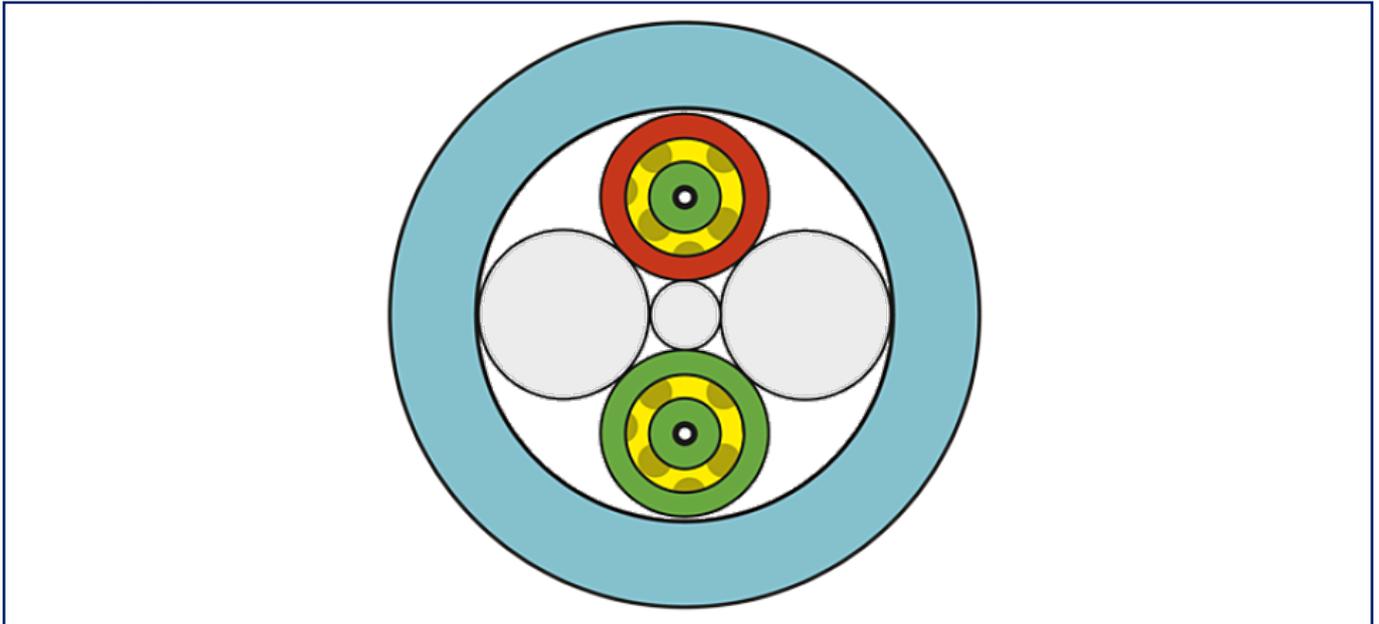
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