

Data sheet

OpDAT patch cord 2x1 OS2 - bend insensitive

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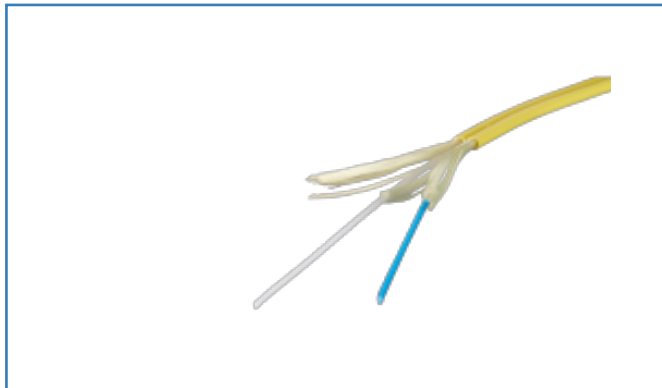
P/N

150P1000M

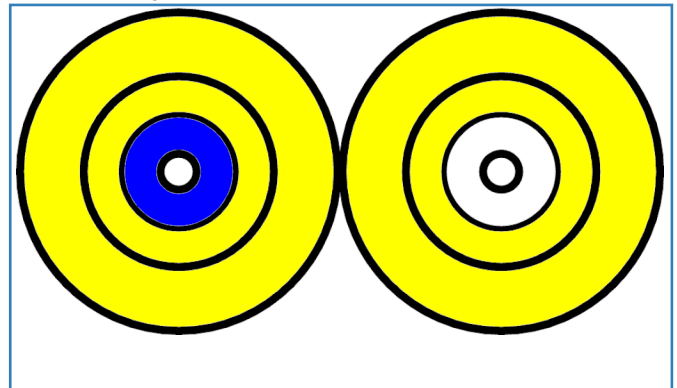
EAN 4250184145578

2015-08-07

Illustrations



Principle diagram



Product specification

- installation cable I-V(ZN)H
- duplex cables for connection or distribution
- laser-optimized fibers
- bending resistant fiber
- cable sheath: LSHF-FR
- cable structure: figure 8 patch cable
- strain relief: aramide
- applicable standards: EN 50173-1, ISO 11801 2nd edition, IEC 60794-2, IEC 60794-2-20, EN 187000
- variants: yellow (OS2), violet (OM4), aqua (OM3), orange (OM2)
- Others on request

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Technical Data

General Data

Fields of application	Structured building cabling, Office Data center
Design	Installation cables
Transmission technology	Fiber optic
Color	yellow
Color coding fiber/ wire(s)	see table
Mode type of the fiber	Single mode
Fiber class	OS2: IEC 60793-2-50 B.1.3, B6_b & ITU-T G.657.A2, G.657.B2, G.652.D
Cable Type	Duplex cable
Number of cables/ cores	1
Number of fibres each cable/ wire	2
Fiber construction	9/125 µm

Transmission characteristics

Reach	
Reach 1000BASE LX	5000 m
Reach 10GBASE L	10000 m
Reach 10GBASE EW/ER	40000 m
Reach 40GBASE LR4	10000 m
Reach 100GBASE ER4	10000 m

Connections/interfaces

Connector technology interface 1	Free line end
Connector technology interface 2	Free line end
Cable sheath diameter (min. - max.)	
Cable sheath diameter	2.0 x 4.2 mm
Cable sheath diameter	0.08 x 0.17 in.

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Electrical characteristics

Attenuation of the fiber in the cable at 1310 nm	0.38 dB/km
Attenuation of the fiber in the cable at 1383 nm	0.38 dB/km
Attenuation of the fiber in the cable at 1550 nm	0.38 dB/km
Attenuation of the fiber in the cable at 1625 nm	0.38 dB/km

Mechanical characteristics

Strain relief	aramide fibres
Permanent tensile strength	120 N
Bending radius without load	20.00 mm
Bending radius without load	0.79 in.
10 turns on a mandrel R= 15 mm, @ 1550 nm	0.03 dB
1 turn on a mandrel R= 7.5 mm, @ 1550 nm	0.5 dB
Impact resistance	1 Nm
Crush (compressive strength)	2000 Nm
Torsion resistance	5 cycles ± 1 revolution

Materials and material properties

Bend insensitivity	yes
Halogen free	yes
Laser-optimized	yes

Environmental conditions

Temperature (min. - max.)	
Temperature - Storage °C	-40 - 70 °C
Temperature - Storage °F	-40 - 158 °F
Temperature - Operating °C	-40 - 70 °C
Temperature - Operating °F	-40 - 158 °F
Temperature - Installation °C	-40 - 70 °C
Temperature - Installation °F	-40 - 158 °F



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Approvals

RoHS compliant

The product meets the following standards

Generic cabling systems

General requirements ISO/IEC 11801 | DIN EN 50173-1

Optical fibers: Sectional specification

Indoor cables ISO/IEC 60794-2

Optical fibers: Indoor optical cables

Family specification for simplex and duplex cables ISO/IEC 60794-2-10

Sectional specification for class B single-mode fibres ISO/IEC 60793-2-50 type B.1.3 & B6_b

Tests on electric and optical fibre cables under fire conditions

Test for vertical flame propagation for a single insulated wire or cable ISO/IEC 60332-1-2

Test for vertical flame spread of vertically-mounted bunched wires or cables ISO/IEC 60332-3-24

Measurement of smoke density of cables burning ISO/IEC 61034-2

ITU-T standard G.657.A2, G.657.B2, G.652.D

Classifications

ETIM 5.0 EC000034

Packing details

Type of packaging Meter / drum