METZ CONNECT
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Data sheet

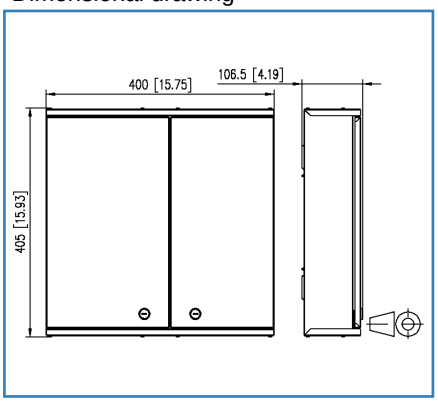
OpDAT Wall-mounted distributor M 48xLC-D (ceramic, blue) pigtails OS2 placed and stripped

P/N 1503397448-E
EAN 4251122198090

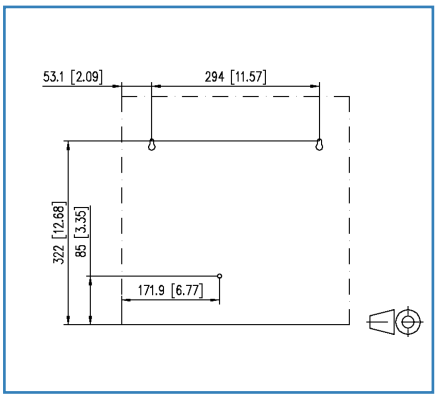
2018-05-01

Illustrations

Dimensional drawing



Cut-out



See enlarged drawings at the end of document

Product specification

- Distributor for universal use in floor cabling or as a building distribution point in the equipment room
- Equipped with LC-D adapters and LC pigtails
- Pigtails inserted and stripped in crimp splice holders in standard splice trays
- Unused openings are closed by blind plugs
- Wall-mount housing with two lockable swing doors, two different locks to separate network and building cabling
- Easy, space saving wall mounting
- Easy access possibilities and a secure routing of the pigtails
- Flexible cable insertion possible from top or bottom by cable entries in different shapes (see accessories)
- Variants: size S: 305x300x107 mm or size M: 405x400x107 mm
- Variants: equipped with up to 48 LC-D adapters and up to 96 pigtails each in blue (OS2), lime green (OM5), violet (OM4), aqua (OM3) or with LC-D APC adapters and pigtails each in green (OS2)

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Technical Data

General Data	
Design	Wall-mounted distributor
Mounting style	surface mount
Transmission technology	Fiber optic
Port numbering	yes
Color	blue
Dimensions	
Dimension (L x W x H)	106.50 x 400.00 x 405.00 mm
Dimension (L x W x H)	4.193 x 15.748 x 15.945 in.
Number of cables/ cores	96
Cable Type	pigtail(s)
Fiber class	OS2 (IEC 60793-2-50 B6_a, B6_b & ITU-T G.657.A2, G.657.B2, G.652.D)
Mode type of the fiber	Single mode
Fiber construction	9/125 µm
Labeling option	printed numbers

Connections/interfaces	
Connector technology interface 1	LC-D Couplers
Connector technology interface 2	LC-D Couplers
Number of ports interface 1	48
Number of ports interface 2	48
Number of equipped ports interface 1	48
Number of ports interface 2 equipped	48
Number of ports with dust protection interface 1	48
Number of ports with dust protection interface 2	48
Cable access/outlet	oben oder unten

Approvals	
RoHS	compliant

The product meets the following standards	
Fibre optic connector interfaces	DIN EN 61754-20
ITU-T standard	ITU-T G.657.A2 and G.657.B2, compatible with ITU-T G.652.D

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Packing details	
Type of packaging	1 pc(s) / box
Packaging dimension (W x H x D)	265.00 x 215.00 x 80.00 mm

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Accessories

P/N	Designation
15090401-I	OpDAT crimp splice protection (150 pcs)
15090401-E	OpDAT crimp splice protection (12 pcs)
15081106-E	OpDAT mounting plate VIK
150811P1613-E	Thread reducer PG16 to PG13.5
15033Z005-E	Cable infeed for patch cords VIK for OpDAT Wall-mounted distributor M
15033Z004-E	Cable infeed for three mounting plates VIK for OpDAT Wall-mounted distributor M
15033Z001-E	Cable infeed for 4xM20 for OpDAT Wall-mounted distributor M
15033Z002-E	Cable infeed for 2xM20 and 4xM2 for OpDAT Wall-mounted distributor M
15033Z003-E	Cable infeed for 3xM25 for OpDAT Wall-mounted distributor M
150811M20-E	Cable gland M20 (Clamping range 7 to 12 mm)
150811M25-E	Cable gland M25

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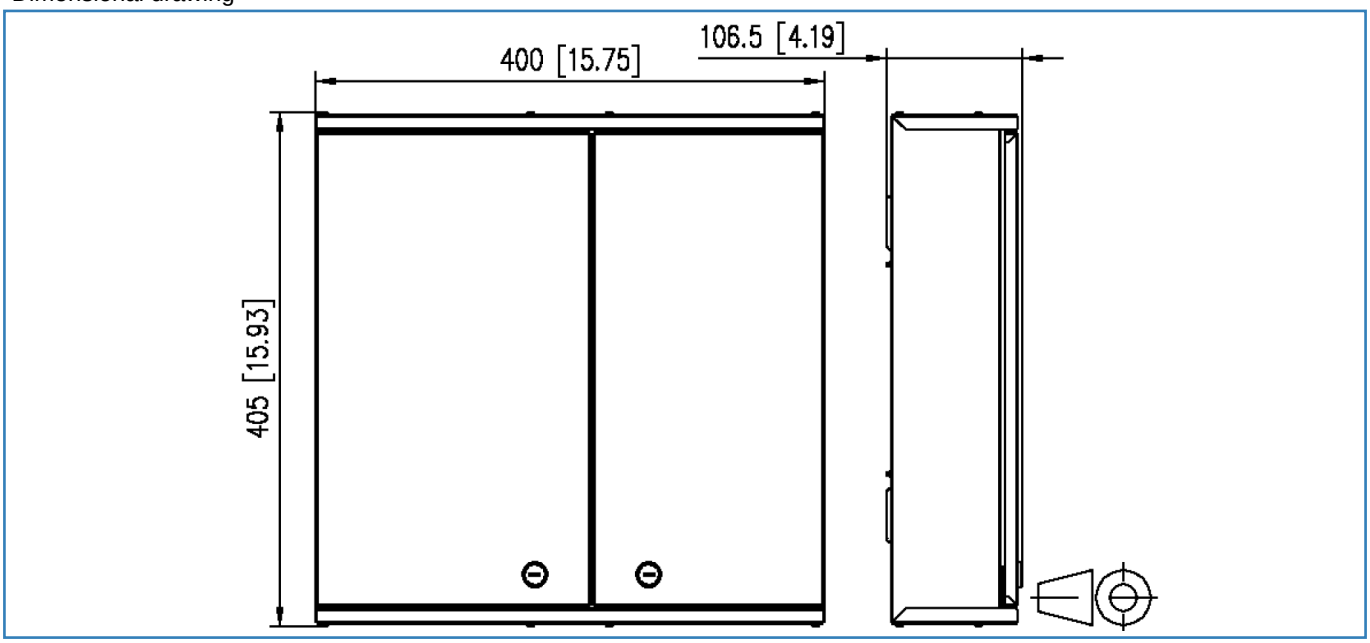
Dimensional drawing



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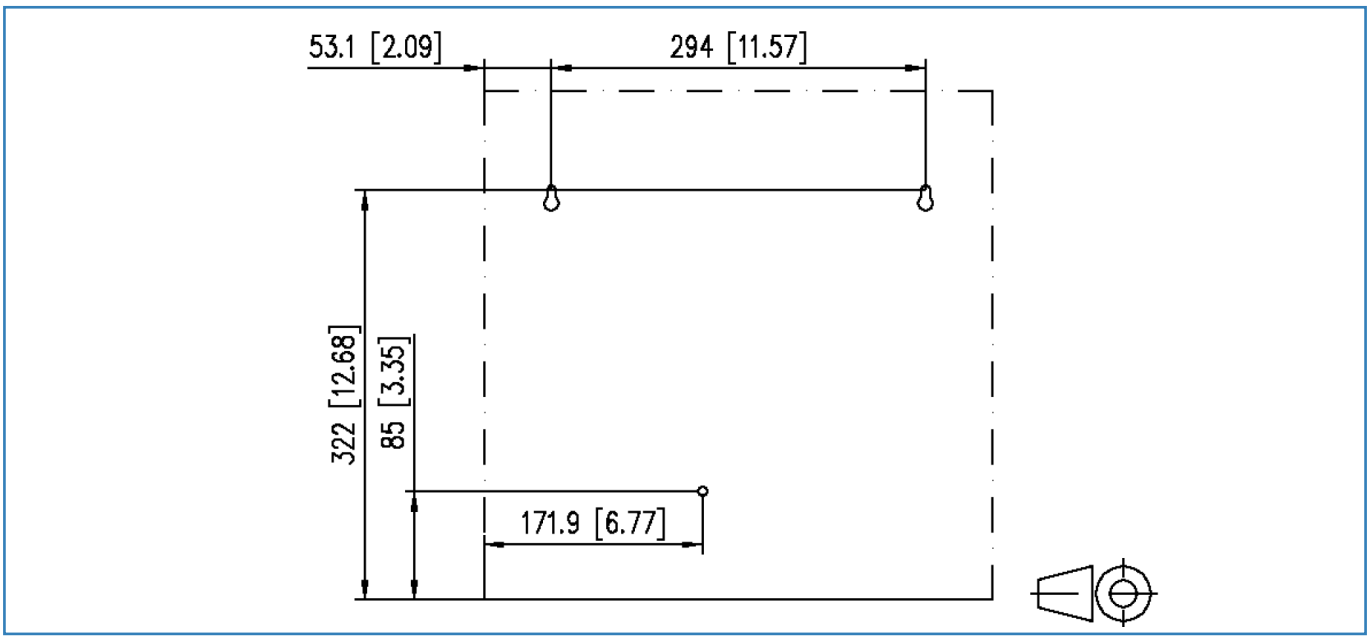

Data sheet
OpDAT fiber OS2 BR

P/N 150XXX9

2018-05-01

Technical Data

General Data	
Transmission technology	Fiber optic
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)
Fiber construction	9/125 µm

Transmission characteristics	
Chromatic dispersion coefficient	
Chromatic dispersion coefficient - In the interval 1285 nm - 1330 nm (max.)	max. |3.7| ps/km * nm
Chromatic dispersion coefficient - At 1550 nm (max.)	max. 18.5 ps/km * nm
Chromatic dispersion coefficient - At 1625 nm (max.)	max. 23.0 ps/km * nm
Dispersionsnulldurchgang, ?{sub}0{/sub}	1300-1324 nm
Zero dispersion slope (max.)	0.092 ps/(nm² * km)
Polarisation mode dispersion (PMD) coefficient, cabled (min.)	0.1
PMDQ Link Design Value (min.)	0.06 ps/vkm
Threshold wavelength (max.)	1260

Connections/interfaces	
Connector technology interface 1	Free line end
Connector technology interface 2	Free line end
Core-/ Fiber cladding diameter	125.0 ± 0.7 µm
Primary coating diameter - colored	242 ± 7 µm

Optical characteristics	
Attenuation of the fiber	
Attenuation of the fiber in the cable at 1310 nm	max. 0.38 dB/km
Attenuation of the fiber in the cable at 1383 nm	max. 0.38 dB/km
Attenuation of the fiber in the cable at 1550 nm	max. 0.23 dB/km
Attenuation of the fiber in the cable at 1625 nm	max. 0.25 dB/km

Mechanical characteristics	
Proof stress level	min. 0.7 (˜ 1 %) GPa
Strip force (peak)	1.2 <= Fpeak.strip <= 8.9 N
10 turns on a mandrel R= 15 mm, @ 1550 nm	0.03 dB

Data sheet
OpDAT fiber OS2 BR

P/N
150XXX9

2018-05-01

Technical Data

Mechanical characteristics	
10 turns on a mandrel R= 15 mm, @ 1625 nm	0.1 dB
1 turn on a mandrel R= 10 mm, @ 1550 nm	0.1 dB
1 turn on a mandrel R= 10 mm, @ 1625 nm	0.2 dB
1 turn on a mandrel R= 7.5 mm, @ 1550 nm	0.5 dB
1 turn on a mandrel R= 7.5 mm, @ 1625 nm	1.0 dB
Fiber cladding non-circularity	max. 0.7 %
Core (MDF)-cladding concentricity error	max. 0.5 µm
Primary coating concentricity error	max. 5 %
Primary coating-cladding concentricity error	max. 12
Inhomogeneity of OTDR measurement report at 1310 nm und 1550 nm	max. 0.1 dB/km
Group refractive index	
Group refractive index at 1310 nm	1.467
Group refractive index at 1550 nm and 1625 nm	1.468

The product meets the following standards	
Generic cabling systems	
General requirements	ISO/IEC 11801 | DIN EN 50173-1 : 2007 cat. OS2
Optical fibers: Measuring methods and test procedures	
Fibre geometry	ISO/IEC 60793-1-20
Coating geometry	ISO/IEC 60793-1-21
Length measurement	ISO/IEC 60793-1-22
Fibre proof test	ISO/IEC 60793-1-30
Coating strippability	ISO/IEC 60793-1-32
Attenuation	ISO/IEC 60793-1-40
Chromatic dispersion	ISO/IEC 60793-1-42
Threshold wavelength	ISO/IEC 60793-1-44
Mode field diameter	ISO/IEC 60793-1-45
Macrobending loss	ISO/IEC 60793-1-47
Polarization mode dispersion	ISO/IEC 60793-1-48
Optical fibers: Indoor optical cables	
Sectional specification for class B single-mode fibres	ISO/IEC 60793-2-50 type B6_a/B6_b

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OpDAT fiber OS2 BR

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Technical Data

The product meets the following standards	
Optical fibers: Outdoor optical fibre cables	
Outdoor cables	ISO/IEC 60794-3
ITU-T standard	G.657.A2, G.652.B2, G.652.A, B, C, D