METZ CONNECT
We realize ideas

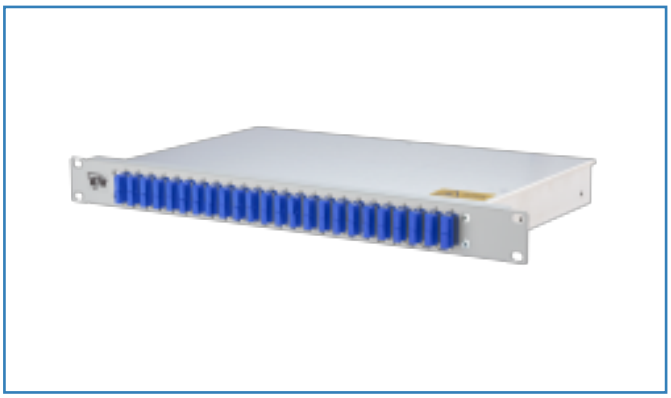
Data sheet

OpDAT fix patch panel 24xSC-D (ceramic, blue) Â pigtails OS2 placed and stripped

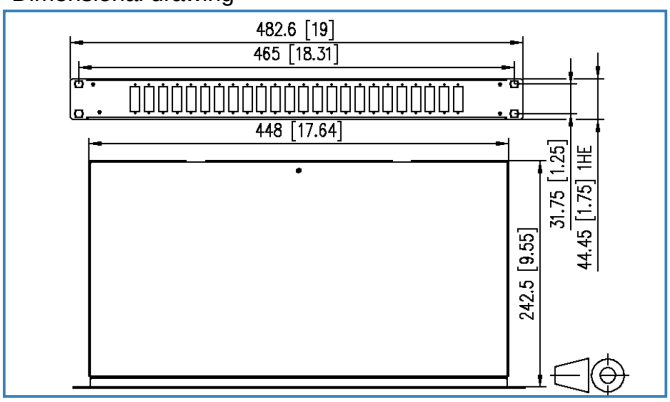
P/N 150259E224-E
EAN 4250184147114

2015-22-06

Illustrations



Dimensional drawing



See enlarged drawings at the end of document

Product specification

- 19 inch 1RU fiber optic patch panel for fixed installation
- light aluminum construction with steel sheet front plate painted in RAL 7035
- equipped with SC-D couplers
- unused cutouts are closed by blank plugs
- removable front plate for easy adapter mounting
- screwed on cover for easy access during service work
- installation depth 240 mm (without cable gland and coupler)
- several possibilities for cable entry on the back (fastening with PG13.5, PG16 and PG21 or M20 and M25)
- Semi-tight buffered fiber dia. 0.9 mm, 12 colors, secondary and primary coating in the same color, length 2.0 m
- pigtails inserted and stripped in standard splice trays with crimp splice holders
- pigtails are cleaned and plugged in adapters
- variants: equipped with 6, 12 or 24 SC-D adapters, all blue (OS2), heather violet (OM4), aqua (OM3) or beige (OM2)

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Technical Data

General Data	
Fields of application	
	Structured building cabling, Data center
Design	patch panel
Mounting style	1RU
Transmission technology	Fiber optic
Port numbering	yes
Color	blue
Dimensions	
Dimension (L x W x H)	242.50 x 482.60 x 44.45 mm
Dimension (L x W x H)	9.55 x 19.00 x 1.75 in.
Inches	19 inches
Height unit	1RU
Installation depth	240.00 mm
Installation depth	9.45 in.
Number of cables/ cores	48
Cable Type	pigtail(s)
Fiber class	OS2 (IEC 60793-2-50 B.1.3, B6_b & ITU-T G.657.A2, G.657.B2, G.652.D)
Mode type of the fiber	Single mode
Labeling option	printed numbers

Connections/interfaces	
Connector technology interface 1	SC-D Couplers
Connector technology interface 2	SC-D Couplers
Number of ports interface 1	24
Number of ports interface 2	24
Number of equipped ports interface 1	24
Number of ports interface 2 equipped	24
Number of ports with dust protection interface 2	24
Semi-tight buffered fiber pigtail length	2.00 m
Semi-tight buffered fiber pigtail length	6.56 ft
Semi-tight buffered fiber pigtail diameter	0.90 mm
Semi-tight buffered fiber pigtail diameter	0.04 in.
Cable access/outlet	several possibilities for cable entry on the back

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Technical Data

Electrical characteristics	
Insertion loss	max. 0.4 dB
Return loss	min. 50 dB
Mechanical characteristics	
Cut-out	SC-D, LC-Q, ST-D
Connector type	Duplex
Life - Number of mating cycles	min. 1000
Strain relief	yes
Materials and material properties	
Material - Coupler housing	Plastics
Material - Front cover	sheet steel
Material - Sleeve	ceramic, slotted
Certifications	
Gost Certification	yes
Approvals	
RoHS	compliant
The product meets the following standards	
Fibre optic connector interfaces	DIN EN 61754-4
Lichtwellenleiter - Verbindungselemente und passive Bauteile Grundlegende Prüf- und Messverfahren	
Fibre optic interconnecting devices and passive components	IEC 61300-3-4
Fibre optic interconnecting devices and passive components	IEC 61300-3-6
Classifications	
ETIM 5.0	EC001130

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Packing details	
Type of packaging	1 pc(s) / box
Packaging unit - Weight (gram)	2212.00 g
Packaging unit - Weight (pound)	4.88 lb
Packaging dimension (W x H x D)	580.00 x 405.00 x 70.00 mm
Packaging dimension (W x H x D)	22.83 x 15.94 x 2.76 in.

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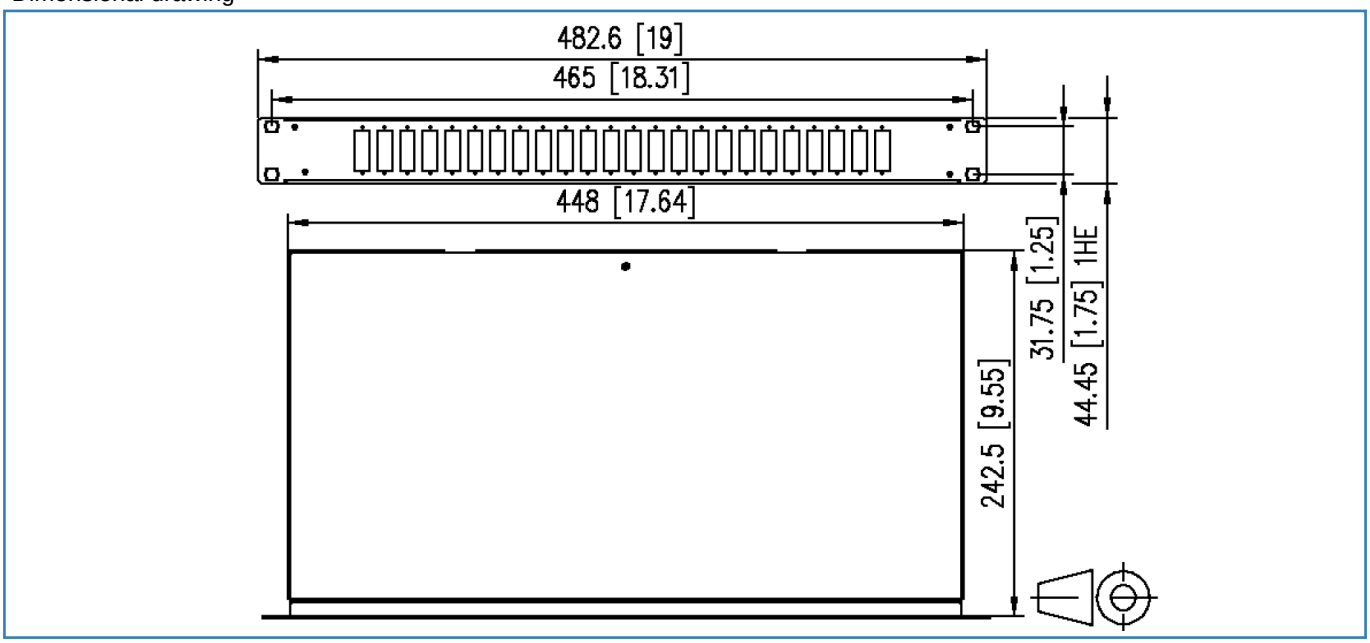
Dimensional drawing



Data sheet
OpDAT fiber OS2 BR

P/N
150XXX9

2015-22-06

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	
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
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
Zero dispersion slope (max.)	max. 0.092 ps/(nm² * km)
Polarisation mode dispersion (PMD) coefficient, cabled (min.)	min. 0.1
Threshold wavelength (max.)	max. 1260

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

Electrical characteristics	
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. 0.38 dB/km
Attenuation of the fiber in the cable at 1625 nm	max. 0.25 dB/km

Data sheet

OpDAT fiber OS2 BR

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Technical Data

Mechanical characteristics	
Proof stress level	min. 0.7 (˜ 1 %) GPa
Strip force (peak)	1.2 = Fpeak.strip max. 8.9 N
10 turns on a mandrel R= 15 mm, @ 1550 nm	max. 0.03 dB
10 turns on a mandrel R= 15 mm, @ 1625 nm	max. 0.01 dB
1 turn on a mandrel R= 10 mm, @ 1550 nm	max. 0.01 dB
1 turn on a mandrel R= 15 mm, @ 1625 nm	max. 0.02 dB
1 turn on a mandrel R= 7.5 mm, @ 1550 nm	max. 0.5 dB
1 turn on a mandrel R= 7.5 mm, @ 1625 nm	max. 1.00 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 trace for any two 1000 metre fiber length	max. 0.1 dB/km
Group refractive index at 1310 and 1550 nm	1.467
Group refractive index at 1625 nm	1.468
Field width at 1310 nm	8.8 ± 0.4 µm
Feldweite bei 1550 nm neu	9.8 ± 0.5 µm

The product meets the following standards	
Generic cabling systems	
General requirements	ISO/IEC 11801 | DIN EN 50173-1
Industrial area	ISO/IEC 24702:2006 Kat. OS2 und OS1
Optical fibers: Generic specification - basic test procedures for optical cables	
General and definitions	ISO/IEC 60794-1-20
Mechanical Tests Methods	ISO/IEC 60794-1-21
Optical fibers: Measuring methods and test procedures	
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

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Technical Data

The product meets the following standards	
Optical fibers: Indoor optical cables	
Sectional specification for class B single-mode fibres	ISO/IEC 60793-2-50 type B.1.3 & B6_b
ITU-T standard	G.657.A2, G.657.B2, G.652.D
TIA/ANSI-492	AAAB

Packing details	
Primary coating diameter - colored	242 ± 7 µm