

Data sheet

OpDAT fix patch panel splice 6xST-D (metal), OM4, gray

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P/N

150257D106-E

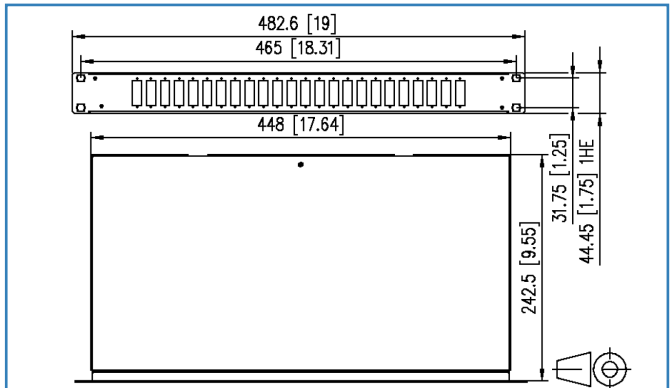
EAN 4250184126911

2018-13-03

Illustrations



Dimensional drawing



See enlarged drawings at the end of document

Product specification

- 19 inch 1RU fiber optic patch panel for fixed installation
- equipped with ST-D adapters and ST pigtails
- pigtails with 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
- light aluminum construction with steel sheet front plate painted (gray or black)
- unoccupied recesses are closed with blind plugs
- removable front plate for easy adapter mounting
- screwed on cover for easy access during service work
- several possibilities for cable entry on the back (fastening with PG13.5, PG16 and PG21 or M20 and M25)
- supplied with one PG16 cable gland
- Variants: equipped with 6, 12 or 24 ST-D adapters and pigtails each made of metal (OS2, OM4 oder OM3)



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Technical Data

General Data

Fields of application

	Structured building cabling, Office Data center
Design	patch panel
Mounting style	1RU
Transmission technology	Fiber optic
Port numbering	yes
Color	metallike
Dimensions	
Dimension (L x W x H)	242.50 x 482.60 x 44.45 mm
Dimension (L x W x H)	9.547 x 19.00 x 1.75 in.
Inches	19 inches
Height unit	1RU
Installation depth	243.00 mm
Installation depth	9.567 in.
Number of cables/ cores	12
Cable Type	pigtail(s)
Fiber class	OM4 (ISO/IEC 11801/EN 50173 & IEC 60793-2-10/EN 60793-2-10 A1.a.1)
Mode type of the fiber	Multimode
Fiber construction	50/125 µm
Labeling option	printed numbers

Connections/interfaces

Connector technology interface 1	ST-D Couplers
Connector technology interface 2	ST-D Couplers
Number of ports interface 1	24
Number of ports interface 2	24
Number of equipped ports interface 1	6
Number of equipped ports interface 2	6
Number of ports with dust protection interface 2	6
Number of blind covers interface 2	18
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	0.035 in.



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Technical Data

Connections/interfaces

Cable access/outlet	several possibilities for cable entry on the back
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Optical characteristics

Insertion loss	max. 0.4 dB
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Return loss	min. 35 dB
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Mechanical characteristics

Cut-out	SC-D, LC-Q, ST-D
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Connector type	Duplex
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Life - Number of mating cycles	min. 1000
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strain relief	yes
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Materials and material properties

Material - Housing	Al (Aluminium)
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Material - Front cover	sheet steel
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Material - Sleeve	ceramic, slotted
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Material - Coupler housing	metal
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Approvals

RoHS	compliant
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The product meets the following standards

Fibre optic connector interfaces	DIN EN 61754-2
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Optical fibers - Interconnecting devices and passive components - basic test and measuring methods	
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Fibre optic interconnecting devices and passive components	IEC 61300-3-4
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Fibre optic interconnecting devices and passive components	IEC 61300-3-6
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Fibre optic interconnecting devices and passive components	IEC 61300-3-35
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Standard colours for insulation for low-frequency cables & wires	IEC 60304
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Technical Data

Classifications

ETIM 5.0	EC001130
ETIM 6.0	EC001130

Packing details

Type of packaging	1 pc(s) / box
Packaging dimension (W x H x D)	523.00 x 361.00 x 45.00 mm
Packaging dimension (W x H x D)	20.591 x 14.213 x 1.772 in.



P | Cabling

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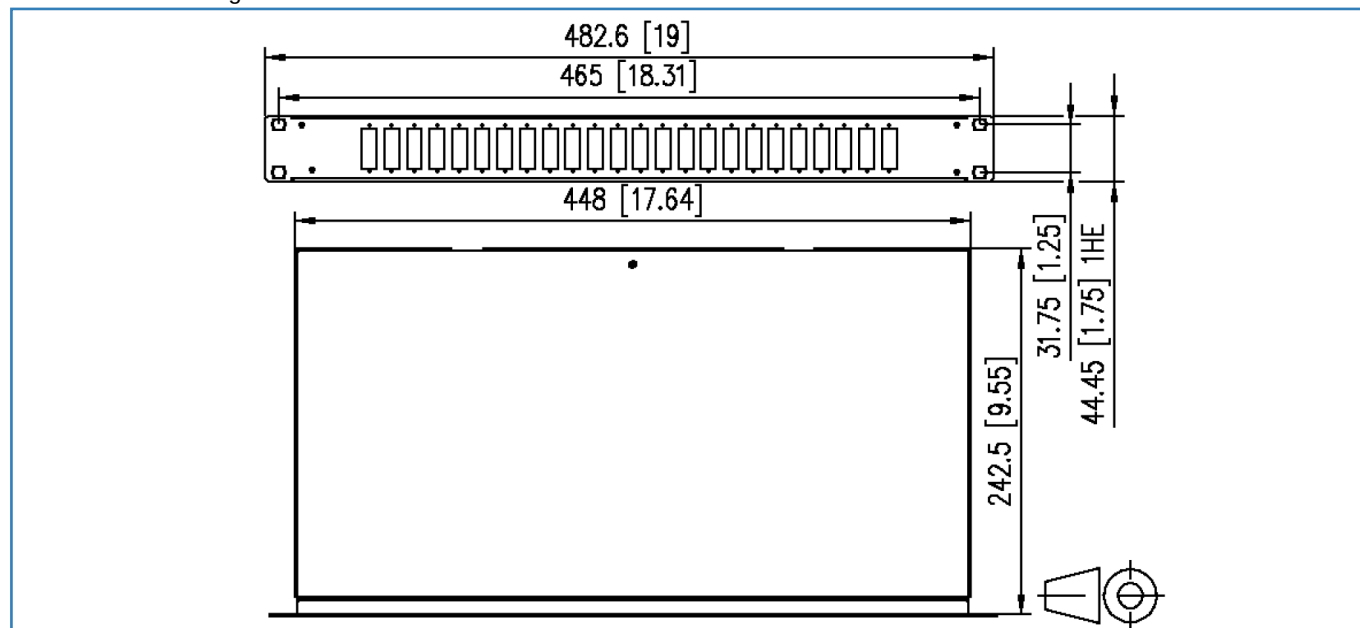
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Illustrations

Dimensional drawing



Technical Data

General Data

Transmission technology	Fiber optic
Mode type of the fiber	Multimode
Fiber class	OM4 (ISO/IEC 11801/EN 50173 & IEC 60793-2-10/EN 60793-2-10 A1.a.3)
Fiber construction	50/125 µm

Transmission characteristics

Transmission rate up to 10 GBit (Gigabit-Ethernet)	IEEE 802.3an
Transmission rate up to 100 GBit	IEEE 802.3ba
Reach	
Reach 1000BASE SX	1100 m
Reichweite 10GBASE SR	550 m
Reach 40GBASE SR4	190 m
Reichweite 100GBASE SR4	100 m
Reichweite 100GBASE SR10	190 m
Overfilled (OFL) modal bandwidth at 850 nm (min.)	3500 MHz * km
Overfilled (OFL) modal bandwidth at 1300 nm (min.)	500 MHz * km
Effective modal bandwidth (EMB) at 850 nm (min.)	4700 MHz * km

Connections/interfaces

Connector technology interface 1	Free line end
Connector technology interface 2	Free line end
Fiber core diameter	50 ± 2 µm
Core-/ Fiber cladding diameter	125.0 ± 1.0 µm
Primary coating diameter - colored	250 ± 15 µm
Primary coating diameter - uncolored	242 ± 7 µm

Optical characteristics

Attenuation of the fiber	
Attenuation of the fiber in the cable at 850 nm	max. 2.5 dB/km
Attenuation of the fiber in the cable at 1300 nm	max. 0.7 dB/km
Maximum value of cable attenuation at 850 nm	3.0 dB/km
Maximum value of cable attenuation at 1300 nm	1.0 dB/km



Technical Data

Mechanical characteristics

Proof stress level	min. 0.7 (~ 1 %) GPa
Typische durchschnittliche Abziehkraft	min. 1.0 max. 3.0 N
Strip force (peak)	min. 1.3 max. 8.9 N
Biegeverlust	
Dornradius = 7.5 mm, 2 Umdrehungen bei 850/1300 nm	min. 0.2 - max 0.5 dB
Dornradius = 15 mm, 2 Umdrehungen bei 850/1300 nm	min. 0.1 - max 0.3 dB
Fiber cladding non-circularity	max. 0.7 %
Core non-circularity	max. 5 %
Core (MDF)-cladding concentricity error	max. 1 µm
Primary coating concentricity error	max. 5 %
Primary coating-cladding concentricity error	max. 10
Inhomogeneity of OTDR measurement report at 1310 nm und 1550 nm	max. 0.1 dB/km
Group refractive index	
Gruppen-Brechungsindex bei 850 nm	1.482
Gruppen-Brechungsindex bei 1300 nm	1.477
Numerical aperture	0.200 ± 0.015

Materials and material properties

Bend insensitivity	yes
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Approvals

RoHS	compliant
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The product meets the following standards

Generic cabling systems	
General requirements	ISO/IEC 11801 cat. OM4 TIA/EIA 568-C
Data centers	ISO/IEC 24764
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

Technical Data

The product meets the following standards

Optical fibers: Measuring methods and test procedures

Bandbreite	ISO/IEC 60793-1-41
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Numerical aperture	ISO/IEC 60793-1-43
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Gruppenlaufzeitdifferenz	ISO/IEC 60793-1-49
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Optical fibers: Product specifications

Sectional specification for category A1 multimode fibres	ISO/IEC 60793-2-10 (A1a.3)
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ITU-T standard	G.651.1
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TIA/ANSI-492	AAAD
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