

Data sheet

DCCS2 OM4 6xLC-D link

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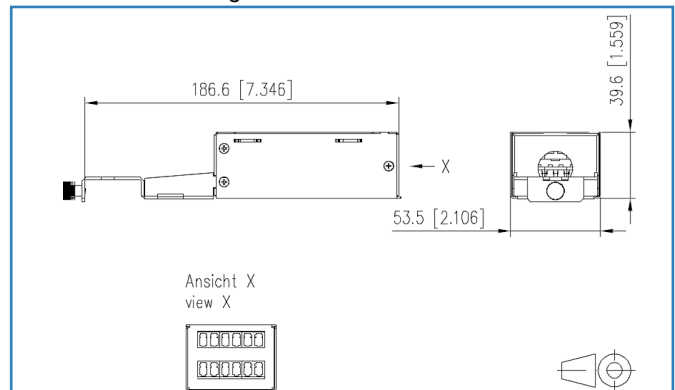
P/N
130D2F772XXXXE

2018-13-03

Illustrations



Dimensional drawing



See enlarged drawings at the end of document

Product specification

- prefabricated fiber optic link consisting of 2 subassemblies DCCS2 each with 6 LC-D adapters mounted to a 12 fiber mini breakout cable
- port numbering of the DCCS2 19 inches subassembly frame remains in place when installing the FO subassemblies
- for 10 GBit Ethernet (IEEE 802.3an)
- the locking levers of patch cords connected to DCCS2 subassemblies show upwards and are easy to handle at any time
- solid and refined assembly housing
- cable diameter less than 6.5 mm
- delivery with serial number and 12 attenuation measurement reports
- mounting version: DCCS2
- available in prefabricated, customer specific lengths - replace xxx in the part number by the length - examples: 0050 = 5.0 m; 0100 = 10.0 m; 0995 = 99.5 m; 2000 = 200.0 m
- maximum length: 500 m
- variants: blue (OS2), lime green (OM5), violet (OM4), aqua (OM3) or green (OS2 APC)



Technical Data

General Data

Fields of application	Data center
Design	Subassembly
Mounting style	DCCS
Shielding	shielded
Transmission technology	Fiber optic
Wiring	crossed
Port numbering	yes
Color	violet
Dimensions	
Dimension (L x W x H)	186.60 x 53.50 x 39.6 mm
Dimension (L x W x H)	7.346 x 2.106 x 1.559 in.
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)
Cable Type	Mini breakout
Number of cables/ cores	1
Fiber construction	50/125 µm
Maximum length	500.00 m

Transmission characteristics

Transmission rate up to 10 GBit (Gigabit-Ethernet)	IEEE 802.3an
Reach	
Reach 100BASE	2000 m
Reach 1000BASE LX	550 m
Reach 1000BASE SX	1000 m
Reach 10GBASE LX4	300 m
Reach 10GBASE SW/SR	550 m
Reach 40GBASE SR4	150 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



Technical Data

Connections/interfaces

Connector technology interface 1	LC-D
Connector technology interface 2	LC-D
Number of ports interface 1	6
Number of ports interface 2	6
Number of equipped ports interface 1	6
Number of equipped ports interface 2	6
Number of ports with dust protection interface 2	6
Cable sheath diameter (min. - max.)	
Cable sheath diameter	6.5 mm
Cable sheath diameter	0.256 in.

Mechanical characteristics

Connector type	Duplex
strain relief	cable tie + fixing bolt for the kevlar of the cable
Maximum installation load	50.00 mm
Maximum installation load	1.969 in.
Maximum operating bending radius	100.00 mm
Maximum operating bending radius	3.937 in.

Materials and material properties

Material - Coupler housing	Plastics
Material - Housing	sheet steel
Material - Housing finish	Zn (zinc)
Material - Sleeve	ceramic, slotted

Approvals

RoHS	compliant
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The product meets the following standards

Tests on electric and optical fibre cables under fire conditions	
Test for vertical flame propagation for a single insulated wire or cable	DIN EN 60332-1-2
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

Technical Data

The product meets the following standards

Measurement of smoke density of cables burning	ISO/IEC 61034-2
TIA/ANSI-492	AAAD

Packing details

Type of packaging	pc(s)
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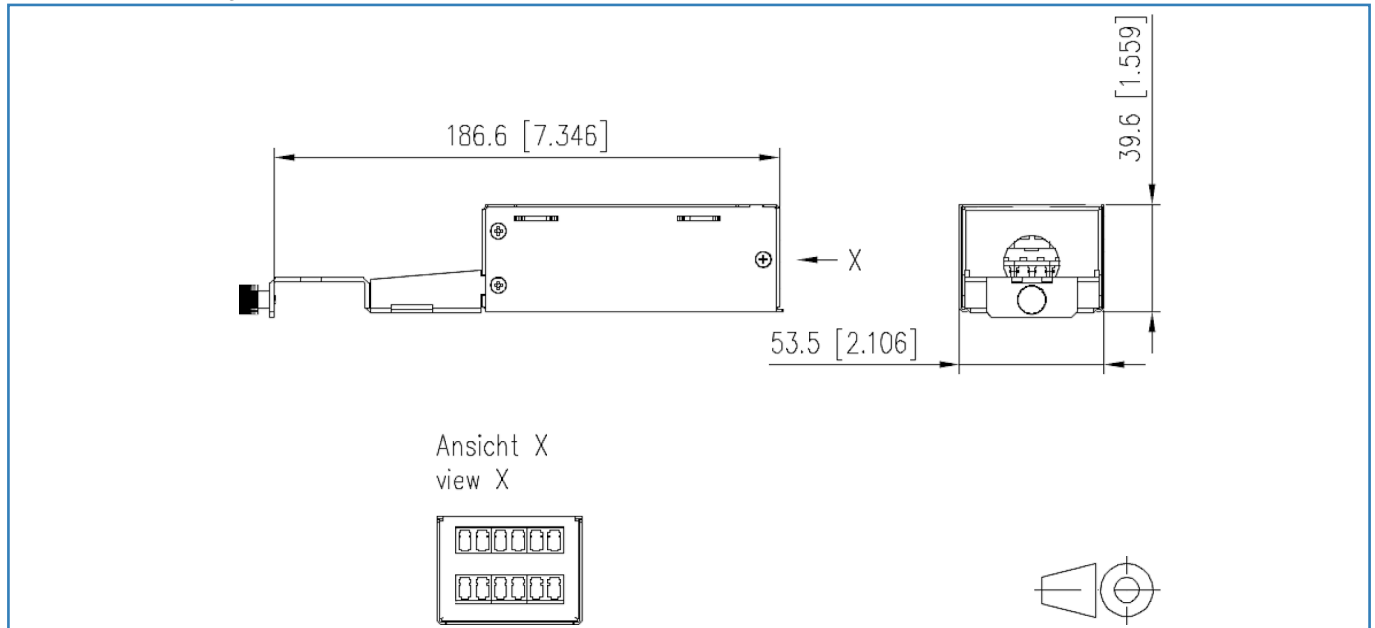
Accessories

P/N	Designation
130D2B1B-E	DCCS2 BGT 19 inch 1RU subrack black
130D2B1G-E	DCCS2 BGT 19 inch 1RU subrack light gray



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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