

Data sheet

DCCS2 OM3 MPO link

Page 1/4

P/N
130D2F5MPAXXXE

2016-14-01

Illustrations



Product specification

- pre-assembled fiber optic link consisting of one 12-fiber connection cable with one MPO plug on each side (Ribbon style)
- especially suited for the DCCS2 system
- suitable for 10 GBit Ethernet (IEEE 802.3an) when combined with DCCS2 subassemblies MPO 6xLC-D
- full assignment of the 12 fibers; therefore also suitable for 40 GBit Ethernet (direct cabling)
- delivery with serial number and measuring reports
- 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: SM (OS2), MM (OM4), MM (OM3)

Technical Data

General Data

Fields of application	Data center
Design	Fiber optic link
Mounting style	DCCS
Transmission technology	Fiber optic
Color	aqua
Mode type of the fiber	Multimode
Fiber class	OM3 (ISO/IEC 11801/EN 50173 & IEC 60793-2-10/EN 60793-2-10 A1.a.2)
Cable Type	Connection cable (Ribbon style)
Number of cables/ cores	1
Number of fibres each cable/ wire	12
Fiber construction	50/125 µm
Maximum length	500.00 m

Connections/interfaces

Connector technology interface 1	MPO - Polarity, method A
Connector technology interface 2	MPO - Polarity, method A

Optical characteristics

Insertion loss	max. 0.35 dB
Return loss	min. 35 dB

Mechanical characteristics

Life - Number of mating cycles	min. 1000
Permanent tensile strength	70 N

Approvals

RoHS	compliant
------	-----------

The product meets the following standards

Fibre optic connector interfaces	IEC 61754-7
FOCIS - Fiber Optic Connector Intermateability Standard	TIA/EIA-604-5-D



Data sheet
OpDAT fiber OM3 BR

Page 3/4

P/N
150XXX5

2016-14-01

Technical Data

General Data

Transmission technology	Fiber optic
Mode type of the fiber	Multimode
Fiber class	OM3 (ISO/IEC 11801/EN 50173 & IEC 60793-2-10/EN 60793-2-10 A1.a.2)
Fiber construction	50/125 µm

Transmission characteristics

Transmission rate up to 100 GBit	IEEE 802.3ba
Overfilled (OFL) modal bandwidth at 850 nm (min.)	1500 MHz * km
Overfilled (OFL) modal bandwidth at 1300 nm (min.)	500 MHz * km
Effective modal bandwidth (EMB) at 850 nm (min.)	2000 MHz * km

Connections/interfaces

Connector technology interface 1	Free line end
Connector technology interface 2	Free line end
Fiber core diameter	50 ± 2.0 µm
Fasermanteldurchmesser	125.0 ± 1.0 µm
Primary coating diameter - colored	242 ± 5 µm
Primary coating diameter - uncolored	250 ± 15 µm

Mechanical characteristics

Proof stress level	min. 0.7 (~ 1 %) GPa
Strip force (peak)	1.3 ≤ F _{peak.strip} ≤ 8.9 N
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. 6
Inhomogeneity of OTDR measurement report at 1310 nm und 1550 nm	max. 0.1 dB/km
Numerical aperture	0.200 ± 0.015

Materials and material properties

Bend insensitivity	yes
--------------------	-----



Technical Data

The product meets the following standards

Generic cabling systems

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

Bandbreite	ISO/IEC 60793-1-41
------------	--------------------

Numerical aperture	ISO/IEC 60793-1-43
--------------------	--------------------

Gruppenlaufzeitdifferenz	ISO/IEC 60793-1-49
--------------------------	--------------------

Optical fibers: Product specifications

Sectional specification for category A1 multimode fibres	ISO/IEC 60793-2-10 (A1a.2)
--	----------------------------

Optical fibers: Indoor optical cables

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

ITU-T standard	G.651.1
----------------	---------

TIA/ANSI-492	AAAC
--------------	------