

Data sheet

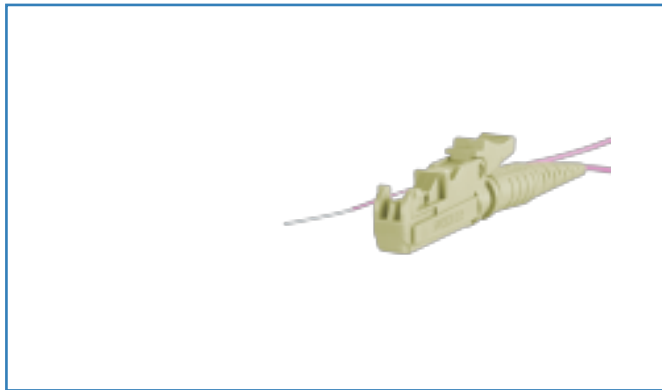
OpDAT pigtail E2000-PC, OM4, heather violet

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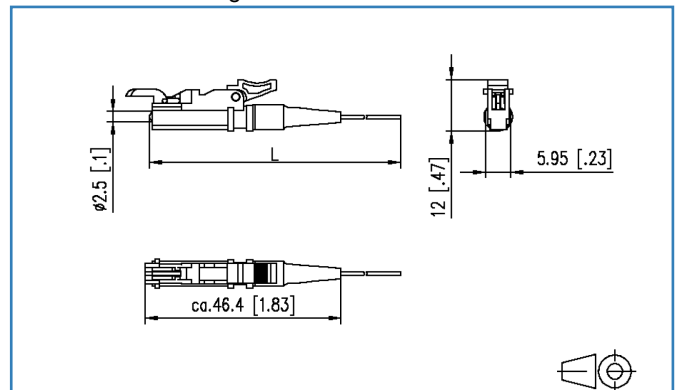
P/N
150N1MO0020S
EAN 4250184164630

2015-08-07

Illustrations



Dimensional drawing



See enlarged drawings at the end of document

Product specification

- Multi mode fiber OM4, G50/125 μm according to IEC 60793-2-10 type A1a.3
- Compact conductor with dia. 0.9 mm, secondary and primary coating violet
- Length 2.0 m
- Plug connector mounted on one side, all types according to IEC 61754
- With test report, insertion loss and return loss tested at 100 %
- Packaging unit: 1 piece
- Variants with PC polishing: LC, SC, ST, E2000 and other plug types available on demand

Technical Data

General Data

Fields of application	Office Data center
Design	pigtail
Transmission technology	Fiber optic
Color	beige
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	pigtail(s)
Number of cables/ cores	1
Shape	PC (Physical Contact)
Fiber construction	50/125 µm
Cable length (m)	2.00 m
Cable length (ft)	6.56 ft

Transmission characteristics

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

Connections/interfaces

Connector technology interface 1	Free line end
Connector technology interface 2	E2000
Primary coating diameter	0.25 mm
Primary coating diameter	0.01 in.
Secondary coating diameter	0.90 mm
Secondary coating diameter	0.04 in.
Ferrule diameter	2.50 mm

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Connections/interfaces

Ferrule diameter	0.10 in.
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Electrical characteristics

Insertion loss	max. 0.5 dB
Return loss	min. 20 dB

Mechanical characteristics

Cut-out interface 2	SC, LC-D, E2000
Insertion and withdrawal force	min. 5 N
Minimum bending radius	15.00 mm
Minimum bending radius	0.59 in.

Environmental conditions

Temperature (min. - max.)	
Temperature - Storage °C	-20 - 60 °C
Temperature - Storage °F	-4 - 140 °F
Temperature - Operating °C	-20 - 60 °C
Temperature - Operating °F	-4 - 140 °F

Approvals

RoHS	compliant
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The product meets the following standards

Fibre optic connector interfaces	IEC 61754-15
Optical fibers: Product specifications	
Sectional specification for category A1 multimode fibres	ISO/IEC 60793-2-10 (A1a.3)
Optical fibers - Interconnecting devices and passive components - basic test and measuring methods	
Fibre optic interconnecting devices and passive components	ISO/IEC 61300-3-6 ISO/IEC 61300-3-34
TIA/ANSI-492	AAAD

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Technical Data**Classifications**

ETIM 5.0 EC000748

Packing details

Type of packaging 12 pc(s) / plastic bag

Packaging unit - Weight (gram) 728.00 g

Packaging unit - Weight (pound) 1.60 lb



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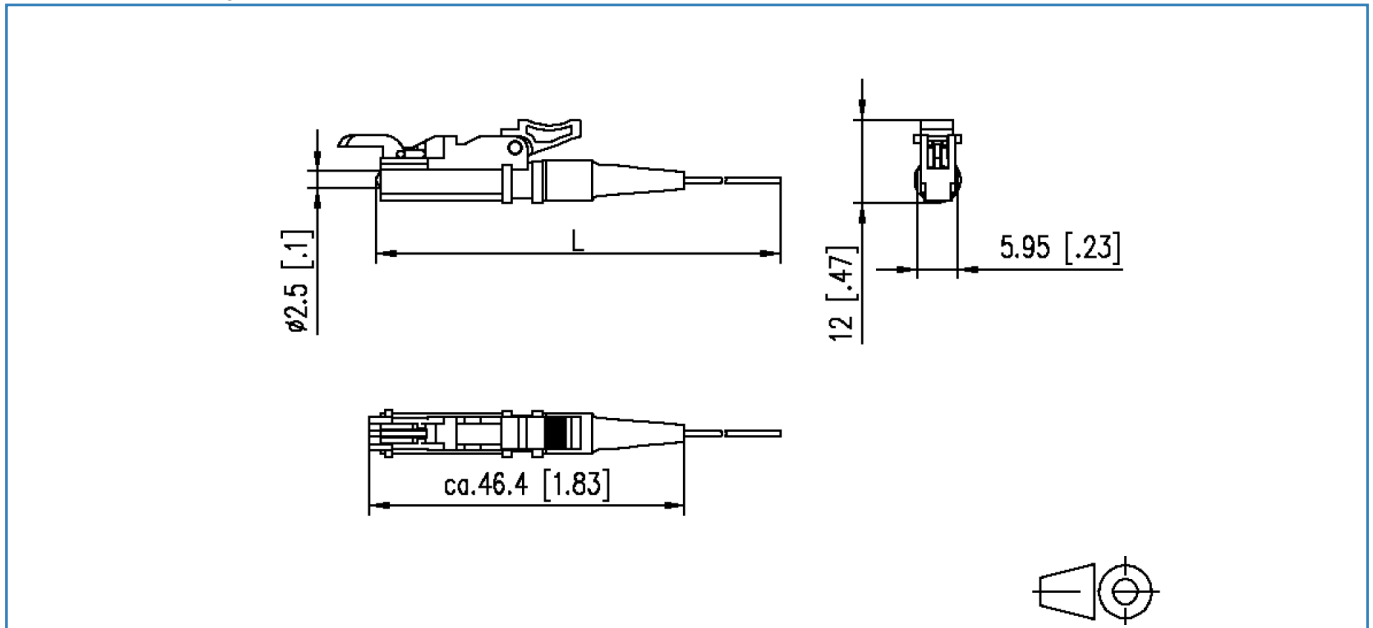
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Illustrations

Dimensional drawing



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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 100 GBit	IEEE 802.3ba
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

Connections/interfaces

Connector technology interface 1	Free line end
Connector technology interface 2	Free line end
Fiber core diameter	50 ± 2.0 µm
Fiber cladding diameter	125.0 ± 1.0 µm
Primary coating diameter - colored	242 ± 0.5 µm
Primary coating diameter - uncolored	250 ± 15 µm

Electrical characteristics

Maximum value of cable attenuation at 850 nm	3.0 dB/km
Maximum value of cable attenuation at 1300 nm	1.0 dB/km

Mechanical characteristics

Proof stress level	min. 0.7 (~ 1 %) GPa
Strip force (peak)	1.3 = F _{peak.strip} max. 8.9 N
Fiber bending loss R=7.5 mm 850/1300 nm	max. 0.2 / = 0.5 dB
Fiber bending loss R=15 mm 850/1300 nm	max. 0.1 / = 0.3 dB

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Mechanical characteristics

Fiber cladding non-circularity	max. 0.7 %
Core non-circularity	max. 5 %
Core (MDF)-cladding concentricity error	max. 1.5 µm
Primary coating concentricity error	max. 5 %
Primary coating-cladding concentricity error	max. 6
Inhomogeneity of OTDR trace for any two 1000 metre fiber length	max. 0.1 dB/km
Group refractive index at 1310 and 1550 nm	1.482
Group refractive index at 1625 nm	1.477
Numerical aperture	0.200 ± 0.015

Materials and material properties

Bend insensitivity	Ja
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The product meets the following standards

Generic cabling systems	
General requirements	ISO/IEC 11801 DIN EN 50173-1
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
Numerical aperture	ISO/IEC 60793-1-43
Optical fibers: Indoor optical cables	
Family specification for simplex and duplex cables	ISO/IEC 60793-2-10 (A1a.3)
TIA/ANSI-492	AAAD