METZ CONNECT
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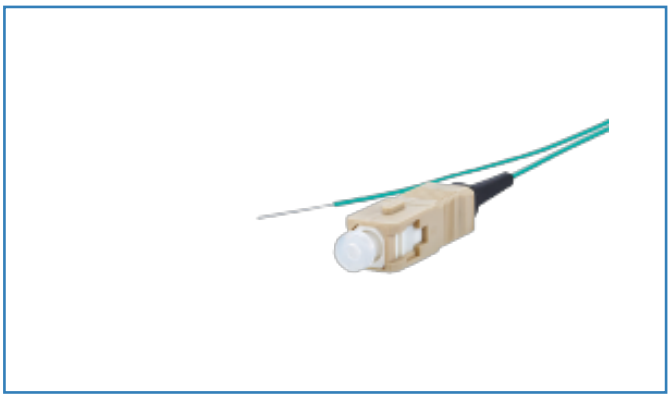
Data sheet

OpDAT pigtail SC-PC, OM3, aqua

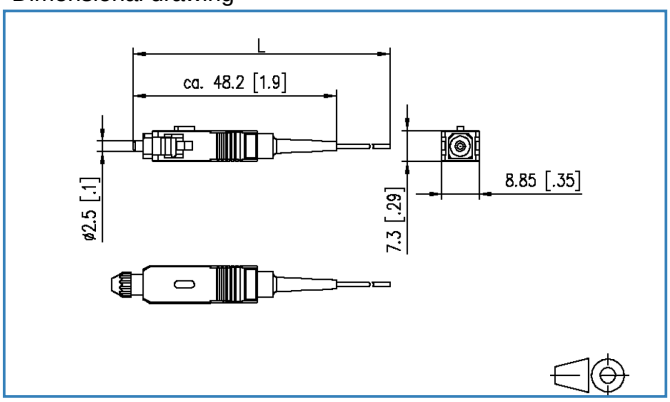
P/N 150M1CO0020S
EAN 4250184164579

2015-08-07

Illustrations



Dimensional drawing



See enlarged drawings at the end of document

Product specification

- Multi mode fiber OM3, G50/125 µm according to IEC 60793-2-10 type A1a.2
- Compact conductor with dia. 0.9 mm, secondary and primary coating aqua
- 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

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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	OM3 (ISO/IEC 11801/EN 50173 & IEC 60793-2-10/EN 60793-2-10 A1.a.2)
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	300 m
Reach 40GBASE SR4	100 m
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	SC
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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Technical Data

Connections/interfaces	
Ferrule diameter	0.10 in.
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
The product meets the following standards	
Fibre optic connector interfaces	IEC 61754-4
FOCIS - Fiber Optic Connector Intermateability Standard	TIA/EIA-604-3
Optical fibers: Product specifications	
Sectional specification for category A1 multimode fibres	ISO/IEC 60793-2-10 (A1a.2)
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	AAAC

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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)	368.00 g
Packaging unit - Weight (pound)	0.81 lb

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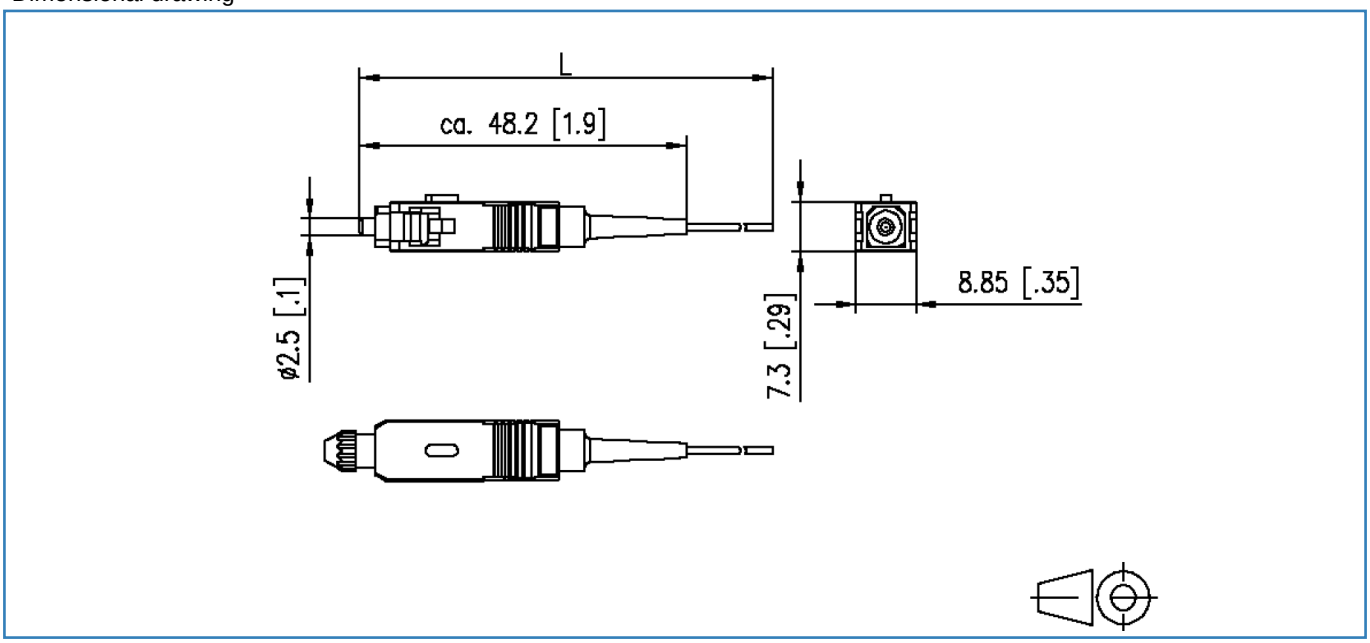
Illustrations

Dimensional drawing



Data sheet
OpDAT fiber OM3 BR

P/N
150XXX5

2015-08-07

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
Reach	
Reach 100BASE	2000 m
Reach 1000BASE LX	550 m
Reach 1000BASE SX	1000 m
Reach 10GBASE LX4	300 m
Reach 10GBASE SW/SR	300 m
Reach 40GBASE SR4	100 m
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 Î¼m
Fiber cladding diameter	125.0 ± 1.0 mm
Primary coating diameter - colored	242 ± 0.5 µm
Primary coating diameter - uncolored	250 ± 15 Î¼m

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 = Fpeak.strip max. 8.9 N
Fiber bending loss R=7.5 mm 850/1300 nm	max. 0.2 / = 0.5 dB
Biber bending loss R=15 mm 850/1300 nm	max. 0.1 / = 0.3 dB

Data sheet

OpDAT fiber OM3 BR

P/N 150XXX5

2015-08-07

Technical Data

Mechanical characteristics	
Fiber cladding non-circularity	max. 0.7 %
Core non-circularity	max. 5 %
Core (MDF)-cladding concentricity error	max. 1.0 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	yes

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.2)
TIA/ANSI-492	AAAC