

PRODUCTPROFILE

Catalogue number: 069A2013OM4

Partnumber: 761271

Cable semi-tight buff.fiberG50/125µm

fiber pigtail
connector type: E2000 ceramic, MM
cable type: 50/125µ OM4, compact fiber
simplex cable
length: 2.5 m

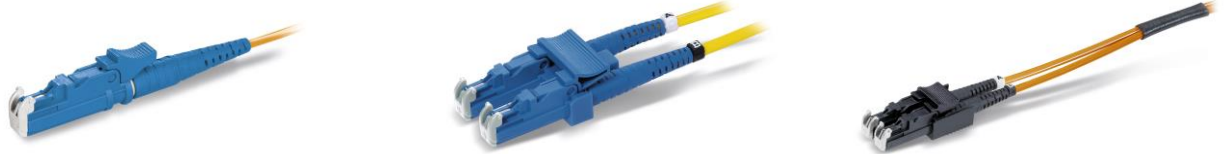


Related documents:

DS_E2000_STECKER_R_OE
DS_FASER OM4BI_OE

Steckerdatenblatt
Fiber Data Sheet

E-2000® Connectors



All dimensions are in mm; tolerances acc. ISO 2768 m-H

Properties

E-2000® connector is designed with Push-Pull locking, automatically closing dust flap.

Interface

E-2000™, acc. to IEC 61754-15 and CECC 86275-802

Material for connectors

Ferrule :	Zirconia ceramic, Ø 2.5 mm
Body :	Plastics
Boot :	Plastics

Fiber Type

9/125µm, 50/125µm, 62.5/125µm

Optical data

Insertion Loss :	S/M	Typical	max.
	M/M	0.15 dB	0.25 dB
Return Loss :	S/M	0.20 dB	0.40 dB
	M/M	≥45 dB(PC),	≥55 dB(UPC)
		≥30 dB	

Mechanical data

Mating cycle ≥ 500

Environmental data

Operation temperature range	-40°C to +85°C
Storage temperature range	-40°C to +85°C
Flammability	UL94-V0

Suitable cables

Cable Types : Ø 0.9 ~ 3.3 mm

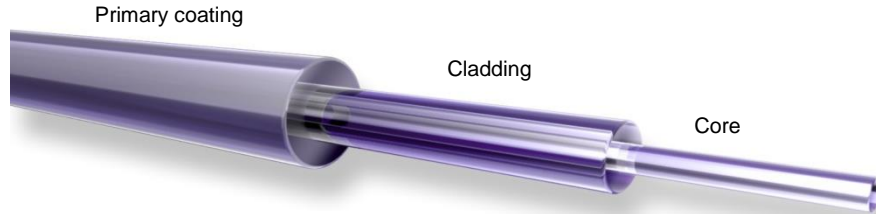
Packaging

Standard Packaging.

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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
N. Bockisch	31.03.2017	Y.Zhang	09.06.2017	004	---	A.Burggraf	26.11.2019



Standards

Graded index fiber 50/125µm according to
 -ISO/IEC 11801 und EN 50173-1 OM4
 -IEC 60793-2-10 type A1a.3
 -ITU G.651.1
 -TIA/EIA 492AAAD

Structure

Silica fiber with two layer acrylate primary coating

Geometrical properties

Core diameter	50 µm +/- 2.5 µm
Cladding diameter	125 µm +/- 1 µm
Core non-concentricity	< 5 %
Cladding non-circularity	< 1 %
Core-Cladding concentricity	< 1.5 µm
Primary coating diameter	242 µm +/- 5 µm
Coating-Cladding concentricity	< 12 µm

Mechanical properties

Break strength SCREEN-Test 1 % strain for 1 s @100 kpsi

Thermal properties

Operating temperature range -60 to +85°C

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Transmission characteristics

Attenuation:

@ 850 nm max. 2.3 dB/km
@ 1300 nm max. 0.6 dB/km

Macrobending, induced attenuation:

100 turns, 37.5 mm \leq 0.05 dB @ 850 nm
100 turns, 37.5 mm \leq 0.15 dB @ 1300 nm
2 turns, 15 mm \leq 0.1 dB @ 850 nm
2 turns, 15 mm \leq 0.3 dB @ 1300 nm
2 turns, 7.5 mm \leq 0.2 dB @ 850 nm
2 turns, 7.5 mm \leq 0.5 dB @ 1300 nm

Bandwidth (Overfilled launch):

@ 850 nm min. 3500 MHz x km
@ 1300 nm min. 500 MHz x km

Effective modal Bandwidth-length-product (EMB):

@ 850 nm min. 4700 MHz x km

Numerical aperture: 0.200 +/- 0.015

Effective group index of refraction:

@ 850 nm 1.480
@ 1300 nm 1.479

Backscatter attenuation @ 1ns pulse width:

@ 850 nm -68 dB
@ 1300 nm -76 dB

Maximum possible transmission channels lengths:

Ethernet:

1 GBE 100GBASE-SX: min. 1100 m @ max. 3.56 dB channel attenuation ¹⁾
10 GBE 10GBASE-SR: min. 550 m @ max. 2.60 dB channel attenuation ¹⁾
40 GBE 40GBASE-SR4: min. 170 m @ max. 1.50 dB channel attenuation ¹⁾
100 GBE 100GBASE-SR10: min. 170 m @ max. 1.50 dB channel attenuation ¹⁾

Fibre Channel:

8 GFC (800-SN): min. 245 m @ max. 1.76 dB channel attenuation ¹⁾
16 GFC (1600-SN): min. 165 m @ max. 1.51 dB channel attenuation ¹⁾

¹⁾ Inclusive max. 1.0 dB for connections (connectors and splices)

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H. Jungbäck	26-10-15	P. Maier	26-10-15	004	without	H. Jungbäck	26-10-15