

## PRODUCTPROFILE

**Catalogue number: 032A01100M4BI**

Partnumber: 776297

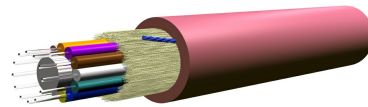
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Brandklasse: Dca

Kabelfarbe: violett

Zugkraft:

Cable I-V(ZN)H12G50/125µm,OM4



### **Related documents:**

DS\_FASER OM4BI\_OE

Fiber Data Sheet

DS\_OPTRAL\_ETW53001-04\_OE

Kabeldatenblatt



**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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Optical fiber OM4  
bend insensitive

059A0381OM4BI

**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 <sup>1)</sup>  
10 GBE 10GBASE-SR: min. 550 m @ max. 2.60 dB channel attenuation <sup>1)</sup>  
40 GBE 40GBASE-SR4: min. 170 m @ max. 1.50 dB channel attenuation <sup>1)</sup>  
100 GBE 100GBASE-SR10: min. 170 m @ max. 1.50 dB channel attenuation <sup>1)</sup>

**Fibre Channel:**

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

<sup>1)</sup> Inclusive max. 1.0 dB for connections (connectors and splices)

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
H. Jungbäck	26-10-15	P. Maier	26-10-15	004	without	H. Jungbäck	26-10-15

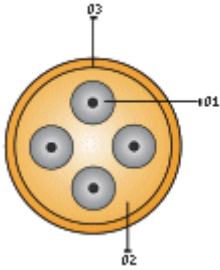
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# OPTRAL

CDI



## Indoor Distribution Cable (Up to 12 FO)



### Cable Description

- 01. Tight Buffer Fibre (0.9 mm)
- 02. Aramid
- 03. Outer Jacket

### Fire Resistance

- Flame retardant
- Halogen free
- Low smoke emission

### Applications

- Indoor
- Based on DIN VDE 0888 part 6.

### Options

- Jackets: PVC / PU
- Special colour code



### Advantages

Compact / Lightweight / Flexible / Easy to strip (gel free) / Totally dielectric / Reduced diameter / Direct connectorization / Saves installation costs.



TOTALLY DIELECTRIC



MOISTURE PROTECTED



HIGH FLEXIBILITY



FLAME RETARDANT



LOW SMOKE EMISSION



HALOGEN FREE

All technical specifications are subject to change without prior notice. Consult OPTRAL for the latest edition.

### SPECIFICATIONS

	2	4	6	8	12
<b>Fibres</b>	2	4	6	8	12
<b>Strength Members</b>	Aramid Yarns				
<b>Outer jacket</b>	Thermoplastic LSZH <sup>1</sup>				
<b>Colour</b>	Orange (MM62) / Blue (MM50) / Yellow (SM)				
<b>Weight (Kg/Km)</b>	19	22	29	37	49
<b>Outer Ø (mm)</b>	4.5 ± 0.3	4.9 ± 0.3	5.6 ± 0.3	6.3 ± 0.3	7.3 ± 0.3
<b>Tensile Load Perm / Inst (N)</b>	400 / 700		500 / 850		600 / 1000
<b>Crush (N)</b>	1000				
<b>Temperature Range</b>	-5 °C to +60 °C				
<b>Min. Bending Radius</b>	20 x Outer Ø				
<b>Maximum Length</b>	4200 m				

#### Standards

Environmental and mechanical tests according to: EN 187000 and CEI 60794.

Fire test according to: UNE-EN 50266 (IEC 60332-3) / UNE-EN 50267 (IEC 60754-1) / UNE-EN 50268 (IEC 61034-1/2).

Fibres colour code: red, green, grey, yellow, blue, natural, white, brown, violet, orange, pink, black.

<sup>1</sup>LSZH – Halogen free, low smoke and flame retardant thermoplastic compound.

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