



### CONTACT

Markets and Products Information  
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## COMMUNICATION CABLES

Lynx<sup>eo</sup> produces a range of optical fiber cables OM3 (50/125 μm) for onboard communication and data transmission. With its halogen-free cross-linked sheathing material the FLAMEX® optical fiber cables conform to the rolling stock requirements.

## STANDARDS

Produkt EN 45545-2 (HL3); EN 50264-1

## DESIGN

### 1. Patch cord

- . Core: glass OM 3 (diameter = 50 μm)
- . Cladding: glass (diameter = 125 ± 3 μm)
- . Coating: acrylate (diameter = 245 ± 10 μm)
- . Buffer: Thermoplastic elastomer (diameter = 900 ± 50 μm)
- . Reinforcement: Aramid yarns
- . Sheath: Cross-linked halogen-free acc. to EN 50264-1 type EM 104 or EM 101 (diameter = 2.00 ± 0.15 mm)

### 2. Tape (for multi-fibers)

### 3. Outer sheath

Cross-linked halogen-free acc. to EN 50264-1 type EM 104 or EM101

Example of marking: FLAMEX - Part number - number of fiber x 50/125 - month and year of production

## GUIDE TO USE

- Bending radius:
  - Static use: 8 x outer cable diameter
  - For installation and occasional movements: 10 x outer cable diameter



Halogenfrei  
 EN 60754-1 & EN 60684-2



Flammwidrig  
 IEC/EN 60332-1-2



Flammwidrig  
 EN IEC 60332-3-24 (cat C); EN IEC 60332-3-25 (EN50305)



Rauchdichte  
 EN/IEC 61034-2



Toxizität der (Brand-) Gase  
 EN 50305-9.2



Chemische Beständigkeit  
 hervorragend



Elektromagnetisch geschirmt  
 Ja

## CHARACTERISTICS

## Konstruktionsmerkmale

Fasertyp	OM3 50/125
Außenmantel	Cross-linked compound
Halogenfrei	EN 60754-1 & EN 60684-2

## Mechanische Eigenschaften

Querdruckwiderstand (IEC 794-1-E3)	250 N/cm
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## Anwendungsmerkmale

Flammwidrig	IEC/EN 60332-1-2
Flammwidrig	EN IEC 60332-3-24 (cat C); EN IEC 60332-3-25 (EN50305)
Rauchdichte	EN/IEC 61034-2
Toxizität der (Brand-)Gase	EN 50305-9.2
Chemische Beständigkeit	hervorragend
Elektromagnetisch geschirmt	Ja

## FLAMEX® OPTICAL FIBER CABLES OM3 50/125

Reference	Country Ref.	Nb optical fibres	Aussendurchmesser [mm]	Gewicht ca. [kg/km]	Dämpfung, nom. 850 nm (verkabelt) [dB/1000m]	Dämpfung, nom. 1300 nm (verkabelt) [dB/1000m]
	2PH550	2	7	40	3,5	1,5
13117426	2PH551	4	7	40	3,5	1,5
	2PH552	6	8	60	3,5	1,5
	2PH553	8	8,5	80	3,5	1,5