



Country Ref.: 2PH550

CONTACT

Markets and Products Information
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COMMUNICATION CABLES

Lynxéo produces a range of optical fiber cables OM3 (50/125 μ m) 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

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

DESIGN

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



Halogen free
 EN 60754 - 1 & EN 60684 - 2



Cable flexibility
 Flexible



IEC/EN
 60332 - 1 - 2



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



EN/IEC 61034 - 2



가
 EN 50305 - 9.2



Chemical
 resistance
 Excellent



Electro magnetic
 interference
 resistance
 Yes

CHARACTERISTICS

Fiber optic type	OM3 50/125
Halogen free	Cross - linked compound EN 60754 - 1 & EN 60684 - 2
Number of optical fibres ()	2 40 kg/km 7 mm
Characteristic impedance	- Ohm
Transmission characteristics	
Attenuation, nom. 1300 nm (cabled)	1.5 dB/1000m
Attenuation, nom. 850 nm (cabled)	3.5 dB/1000m
Maximum tensile strength dynamic	250 N/mm ²
Maximum tensile strength static	500 N/mm ²
Cable flexibility	Flexible
Crush resistance (IEC 60794 - 1 - E3)	250 N/cm
Fire retardant	IEC/EN 60332 - 1 - 2 EN IEC 60332 - 3 - 24 (cat C); EN IEC 60332 - 3 - 25 (EN50305) EN/IEC 61034 - 2 EN 50305 - 9.2
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Chemical resistance	Excellent
Electro magnetic interference resistance	Yes
Minimum dynamic operating bending radius	120.0 mm
Minimum static operating bending radius	60 mm