



Reference: 79477908

CONTACT

Markets and Products Information
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MEDIUM VOLTAGE ROOF CABLES

For inside and outside use in railway vehicles. Installation in cable ducts or tubes. Available on request: HV loop, completely pre-assembled flexible cables with plugs and sealing ends, electrically tested.

STANDARDS

Product EN 45545-2 (HL3); EN 50264-1; IEC 60502

DESIGN

1. Conductor: Flexible stranded tinned copper, class 5 acc. to IEC 60228
2. Inner semi-conductive layer: Conductive rubber
3. Insulation: Cross-linked compound type EI 110 acc. to EN 50264-1
4. Outer conductive layer: Conductive rubber easy to strip
5. Screen: Conductive tape + tinned single wires with separator
6. Outer sheath: Cross-linked compound type EM104 acc. to EN 50264-1. Oil, diesel, ozone and UV resistant. Colour: black

Example of cable marking: FLAMEX PANTO – LEAD FREE - 1x [conductor nominal cross section] / [geometrical screen cross-section] 26/45kV | LYNXEO | WEEK/YEAR batch-no

GUIDE TO USE

- Cabling rules are given in EN 50343 and EN 50355
- Bending radius:
 - Static use: 5 x outer cable diameter
 - For installation and occasional movements: 10 x outer cable diameter



Conductor flexibility
Flexible class 5



Halogen free
EN 60754-1 & EN 60684-2



Rated Voltage U₀/U
(Um)
26 / 45 (54) kV



Flame retardant
EN 60332-1-2



Fire retardant
IEC 60332-3-24
(cat C)



Smoke density
EN/IEC 61034-2



Gases toxicity
EN 50305-9.2



Operating temp.
-40 ... 90 °C

CHARACTERISTICS

Construction characteristics

Conductor material	Tin plated copper
Conductor flexibility	Flexible class 5
Material of the inner semi-conductor	conductive rubber
Insulation	Cross-linked compound
Material of the external semi-conductor	Conductive rubber
Screen	Tin plated copper wires
Outer sheath	Cross-linked compound
Halogen free	EN 60754-1 & EN 60684-2

Dimensional characteristics

Conductor cross-section	50 mm ²
Screen section	16 mm ²
Diameter over external semi-conductor	29.0 mm
Minimum outer diameter	34.0 mm
Maximum outer diameter	36.0 mm
Approximate weight	2100 kg/km

Electrical characteristics

Rated Voltage U ₀ /U (U _m)	26 / 45 (54) kV
Maximum operating voltage	32 kV

Usage characteristics

Flame retardant	EN 60332-1-2
Fire retardant	IEC 60332-3-24 (cat C)
Smoke density	EN/IEC 61034-2
Gases toxicity	EN 50305-9.2
Operating temperature, range	-40 ... 90 °C
Fire load	7 kWh/m
Minimum operating temperature	-40 °C
Short-circuit max. conductor temperature	200 °C
Oil resistance	Yes
Ozone resistance	Yes
U.V resistance	Yes