

Electrostatic filter cable 111 kV

Single core XLPE insulated cable for filter applications, no-load voltage up to 111 kV DC

DESCRIPTION

ELCUFILT 111 kV power cables can be used for dust separation and cleaning air or gases in industrial plants. For example: flue-gas in power plants, air cleaning in cement plants or gas cleaning in chemical and metallurgical plants.

To insure a proper protection of ELCUFILT 111 kV cable in filter systems from high frequency overvoltages an attenuation resistor should be installed directly at the sealing end, and if necessary at the filter.

Nexans electrostatic filter cables (ELCUFILT 111 kV) are used in electrical filter systems with no-load voltage up to 111 kV according to DIN VDE 0271. The cable consists of a single stranded core aluminium conductor, semi conducting conductor screen, insulation of cross-linked polyethylene (XLPE), semi conducting insulation screen, copper screen, separator and a PVC sheath.

For further more information feel free to contact our technical specialists or commercial departments.



STANDARDS

International
Manufacturer specification

National DIN VDE 0271

CHARACTERISTICS

Construction characteristics

Conductor material	Aluminum
Insulating material	XLPE
Screen	Copper wire
Outer sheath	PVC
Lead free	Yes

Dimensional characteristics

Conductor diameter	8.2 mm
Diameter over insulation	28.5 mm

Electrical characteristics

Operating voltage	111 kV
Max. DC resistance of the conductor at 20°C	0.641 Ohm/km
Resistance of the screen	1.83 Ohm/km
Mutual capacitance	130 nF/km
Characteristic impedance	45 Ohm



Lead free
Yes



Ope. volt.
111 kV



Bending factor installed
17 (xD)



Bending factor when laying
23 (xD)



Maximum operating temperature
90 °C

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

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Mechanical characteristics

Maximum pulling force by laying	1.5 kN
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Usage characteristics

Bending factor when installed	17 (xD)
Bending factor when laying	23 (xD)
Maximum operating temperature	90 °C

PRODUCT LIST

Nexans ref.	Cross section [mm²]	Nom. insulation thick. [mm]	Screen section [mm²]	Nom. outer sheath thick. [mm]	Outer Diameter [mm]	Approx. weight [kg/m]
☎ 14300344	50	9.0	10	2.5	36	1.25

☎ = Make to order, 📦 = In stock



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Ope. volt.
111 kV



Bending factor installed
17 (xD)



Bending factor when laying
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Maximum operating temperature
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