

MACDC up to 36 KV

Caratteristiche

Caratteristiche meccaniche

Flessibilità del cavo Excellent self fusing properties

Caratteristiche d'utilizzo

Resistenza alle condizioni climatiche Buona

Temperatura Operativa -20 .. 100 °C

Resistenza chimica Oil resistant

MACDC - Technical properties

Technical properties of MACDC

Properties	Unit	Specification range	Test method
Density	g.cm ⁻³	1,46 +/- 0,05	ITC 004 (UNI ISO 1183)
Permittivity (4mm)	-	> 10	ITC A LEPO 06 (IEC 60250)
Loss factor Tan δ (4mm)	-	< 0,2	ITC A LEPO 06 (IEC 60250)
Volume resistivity (4 mm)	Ω.cm	>1.10 ⁹	ITC A LEPO 13 (IEC 60093)
Dielectric strength (50 Hz) (4mm)	kV.mm ⁻¹	> 3,0	ITC A LEPO 05 (IEC 60243-1)
Elongation at break	%	> 300	ITC 011 (UNI ISO 527-2)
Tensile strength	Mpa	> 0,1 – 0,5	ITC 011 (UNI ISO 527-2)

MACDC -Standard presentation

Shape	Width	Length	Thickness	Ref.
Plates	140 mm	150 mm	2.0 mm	MACDC 140-2x0.15
	110 mm	150 mm	2.0 mm	MACDC 110-2x0.15
Stripes	38 mm	0.4 m	2.0 mm	MACDC 38-0.4

Stress control with mastic

Controlled cable end-potential distribution thanks to the stress control system.

This figure shows a MV cable termination **when stress control mastic is applied.**

Stress control is provided in MV cable termination to control the high stresses, which exist at the area where the shield is terminated.



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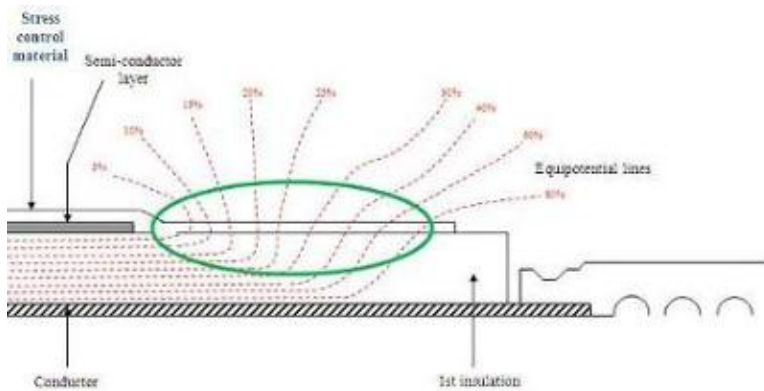


Resistenza chimica
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The stress control mastic help to equilibrate the electrical field and reduce considerable the electrical stress. There is no concentration of equipotential lines, the electrical field is balanced along the termination.

The stress control system is designed for estimated life times longer than 30 years of service.



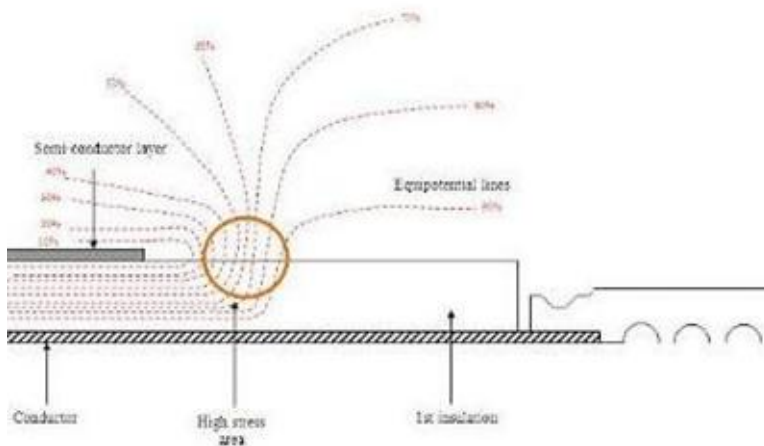
Stress control without mastic

Uncontrolled cable end-potential distribution

This figure shows the stress concentration at the end of the screen of MV cables termination when no stress control mastic is applied.

The edge of the outer conductive layer is a critical point. The field along the dielectric/ air interface provides the highest electrical stress.

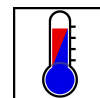
It can induce electrical discharges in the insulation and the life of the termination would be limited depending on the stress at the end of the shield and the discharge resistance of the primary dielectric.



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MACDC application image



Informazioni di vendita

Storage

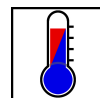
The product is supplied as plates or stripes of specified dimensions with antisticking paper on both sides. The product should be stored in the original packaging, protected from the dust, moisture, heat and sunlight. We recommend long duration storage of the product between + 15 °C and 30 °C



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