

single wire cable
with extra thick insulation

HSC30



Siebel
Elektronik GmbH

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APPLICATIONS

- current slope cable for decoupling units

ELECTRICAL DATA

PARAMETER	ADDITIONAL INFORMATION	MIN	TYP	MAX	UNIT
conductor resistance				7,98	Ohm/km
isolation resistance		20			MOhm*km

MECHANICAL DATA

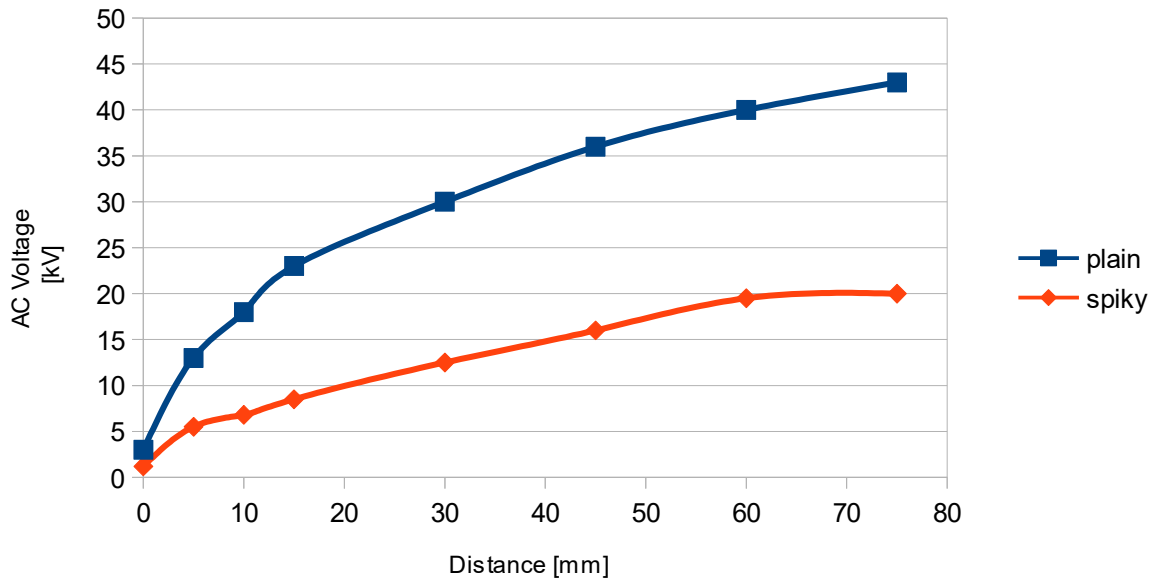
PARAMETER	ADDITIONAL INFORMATION	MIN	TYP	MAX	UNIT
conductor	stranded copper		2,5		mm ²
sheath diameter		9,75	10	10,25	mm
bending radius	onetime	50			mm
	repeated	100			
temperature range	moving	-5		80	°C
	non-moving	-30		80	
weight			110		kg/km

TYPICAL PARTIAL DISCHARGE CHARACTERISTICS (in free air)

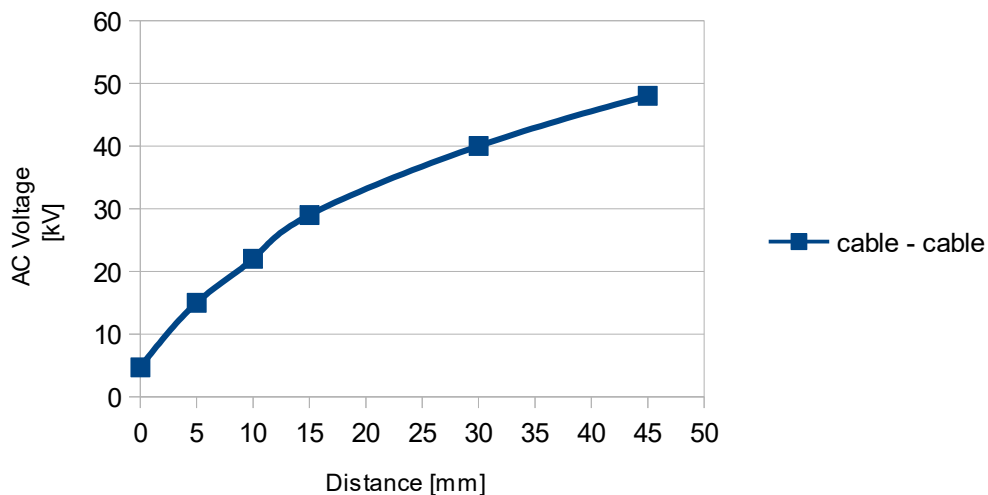
To ensure long-term stability partial discharges must be avoided. The diagram shows the absolute minimum distances of HSC30 to achieve a partial discharge free operation.

Due to the relationship between the structure of the surface and the homogeneity of the electric field two different graphs are given. One for a plain conducting surface next to the cable (favorable case) and one for a spiky conductor pointing to the cable (worst case).

Usually applications lie somewhere in between.

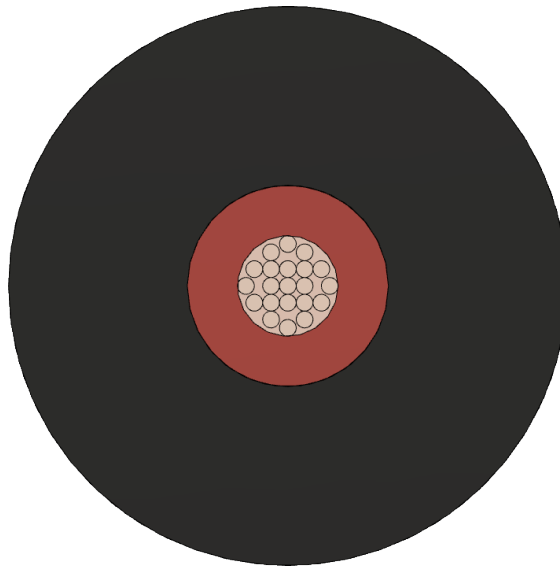


For two HSC30 cables with different potential routed next to each other the following minimal distances should be used for partial discharge free operation:

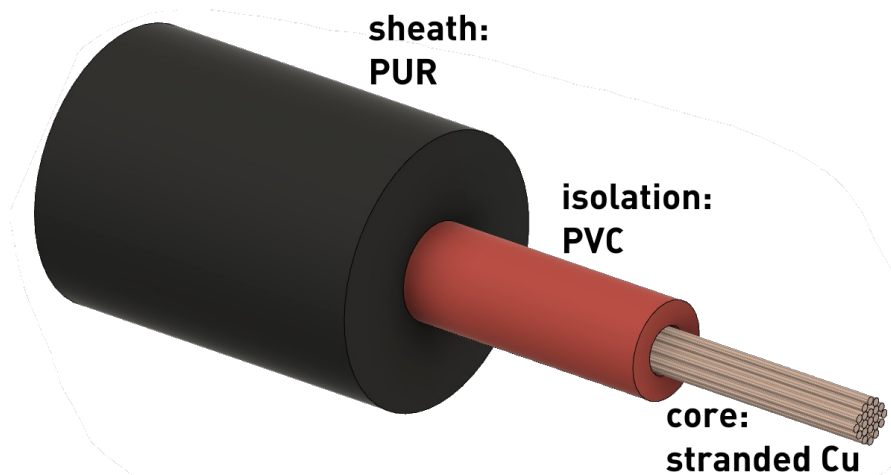


Because of the dependency on manifold ambient conditions the absence of partial discharges should be checked for each application separately.

CROSS SECTION



USED MATERIALS



IMPORTANT NOTICE

Siebel Elektronik GmbH reserves the right to change specifications without notice. Siebel Elektronik GmbH does not provide a guarantee regarding the suitability of this product for any particular purpose. Mounting only by technical experts.