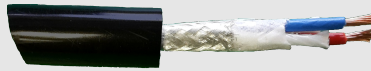


control cable with screen  
and extra thick insulation

# HSC30



**Siebel**  
Elektronik GmbH

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## APPLICATIONS

- current slope cable for decoupling units
- output cable for power supplies with high isolation voltage

## ELECTRICAL DATA

PARAMETER	ADDITIONAL INFORMATION	MIN	TYP	MAX	UNIT
test voltage (50Hz AC, 1 min.)	conductor - conductor	2,5			kV
	conductor - screen	1,5			
conductor resistance				19,5	Ohm/km
isolation resistance		20			MOhm*km
working voltage [AC]	conductor - conductor			300	V

## MECHANICAL DATA

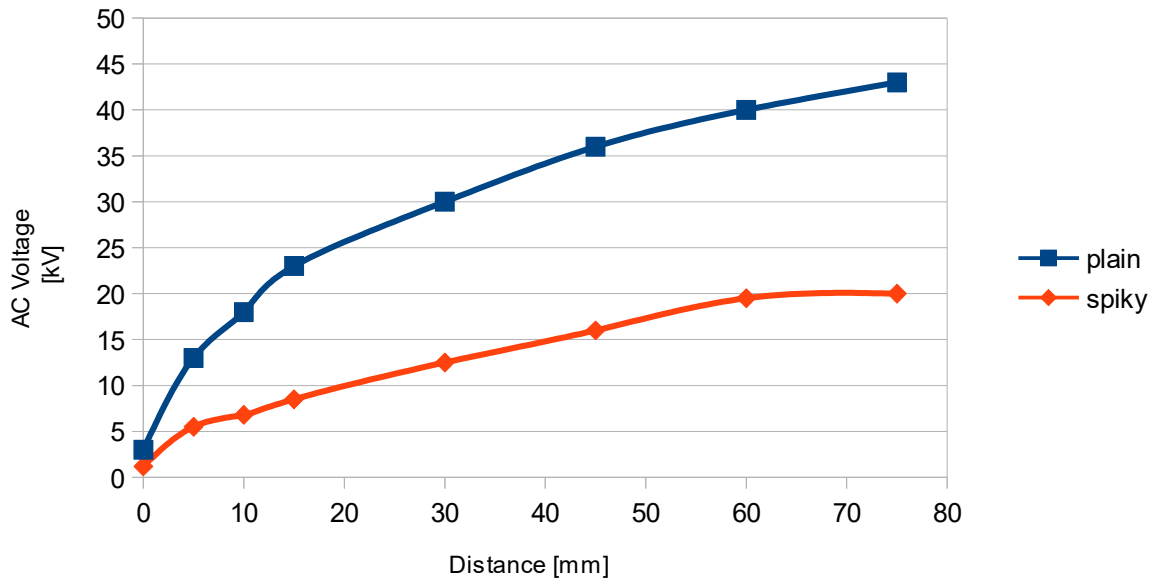
PARAMETER	ADDITIONAL INFORMATION	MIN	TYP	MAX	UNIT
conductor	2x stranded copper		1,0		mm <sup>2</sup>
sheath diameter		9,75	10	10,25	mm
bending radius	onetime	80			mm
	repeated	160			
temperature range	moving	-5		80	°C
	non-moving	-30		80	

## TYPICAL PARTIAL DISCHARGE CHARACTERISTICS (in free air)

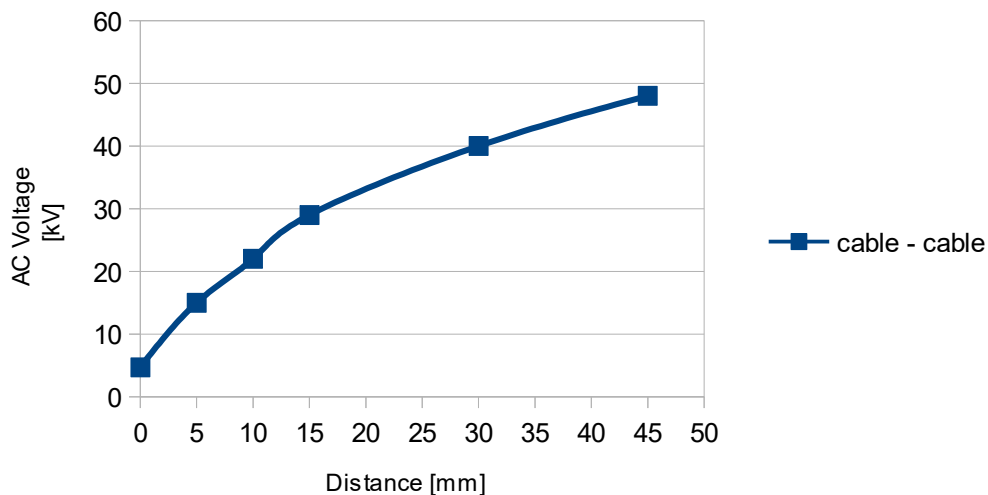
To ensure long-term stability partial discharges must be avoided. The diagram shows the absolute minimum distances of HSC30 to achieve a partial discharge free operation.

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.

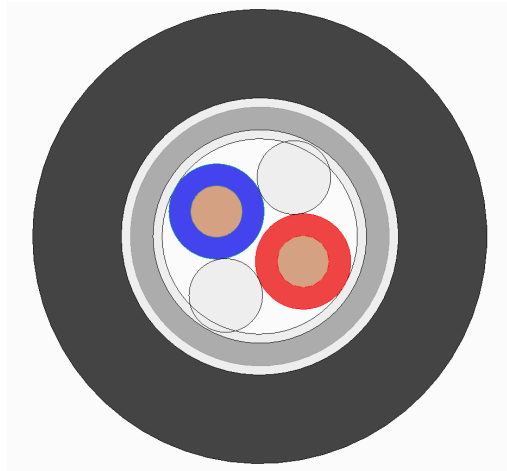


For two HSC30 cables with different potential routed next to each the following minimal distances should be used for partial free operation:

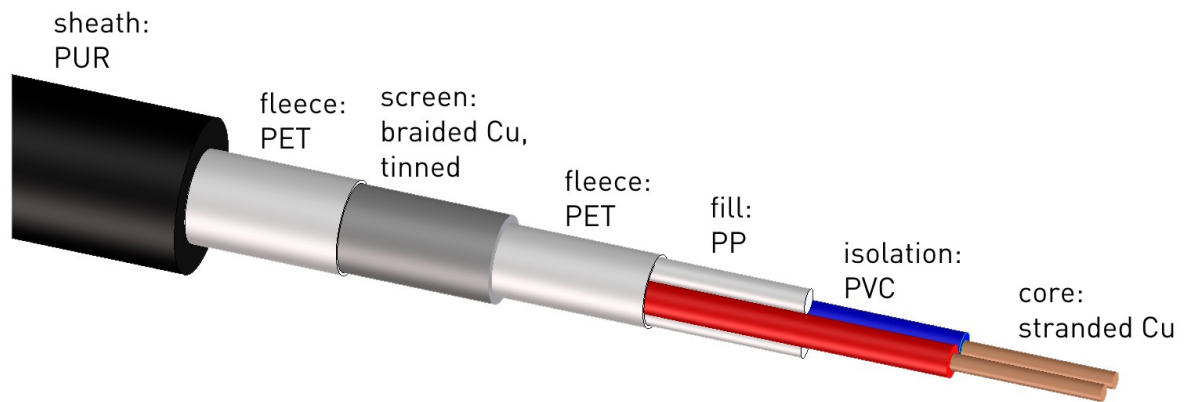


Because of the dependency on manifold ambient conditions the absence of partial discharges should be checked for each application separately.

## 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.