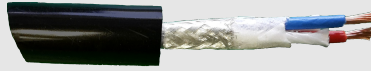


2-wire control cable with screen  
and extra thick insulation

# HSC30-2



**Siebel**  
Elektronik GmbH

Datasheet Version 1

02.03.2024

## 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

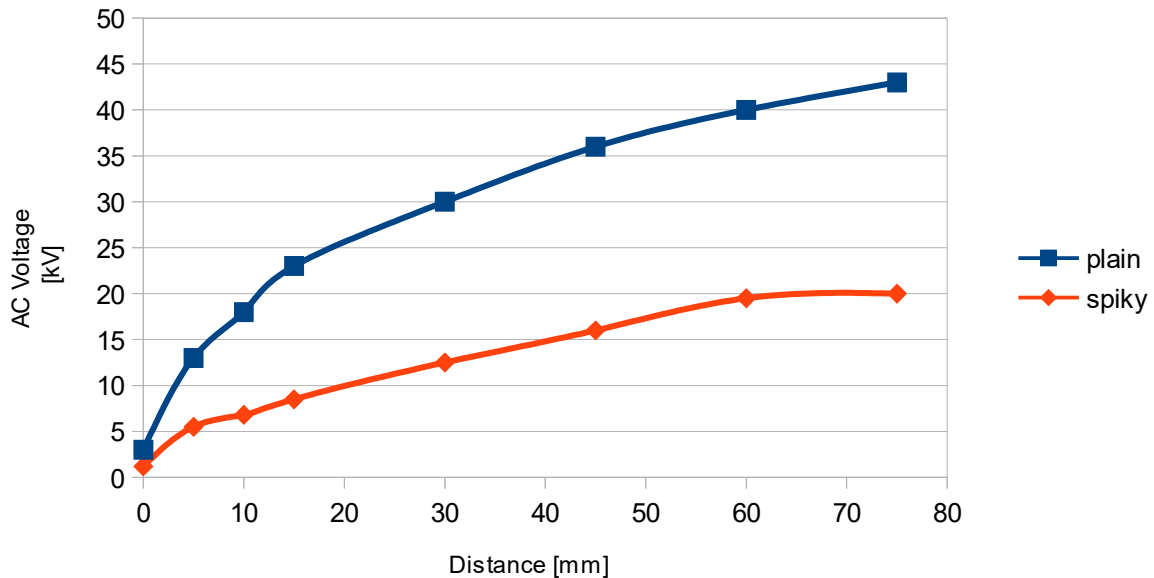
PARAMETER	ADDITIONAL INFORMATION	MIN	TYP	MAX	UNIT
conductor	2x stranded copper		1,0		mm <sup>2</sup>
sheath diameter		9,75	10	10,25	mm
bending radius	onetime	80			mm
	repeated	160			
temperature range	moving	-5		80	°C
	non-moving	-30		80	
weight			110		kg/km

## TYPICAL PARTIAL DISCHARGE CHARACTERISTICS (in free air)

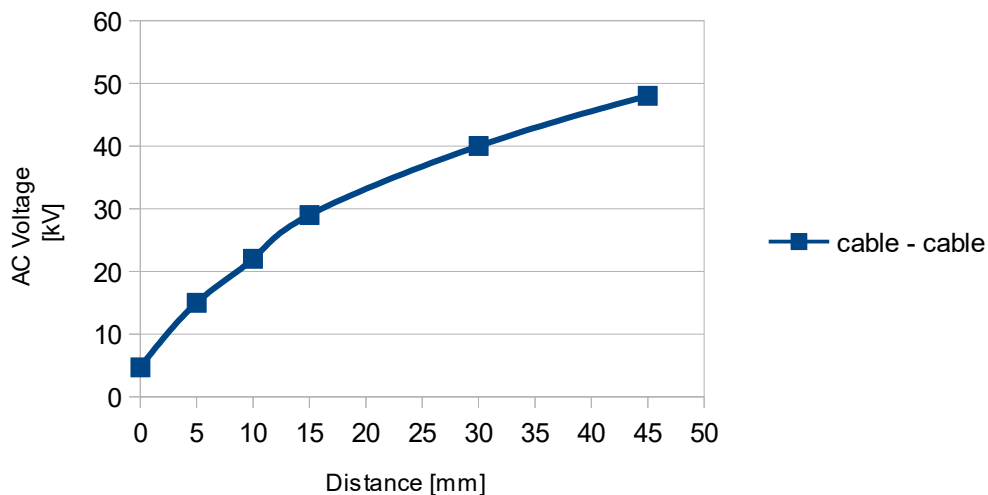
To ensure long-term stability partial discharges must be avoided. The diagram shows the absolute minimum distances of HSC30-2 to achieve a partial discharge free operation.

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.

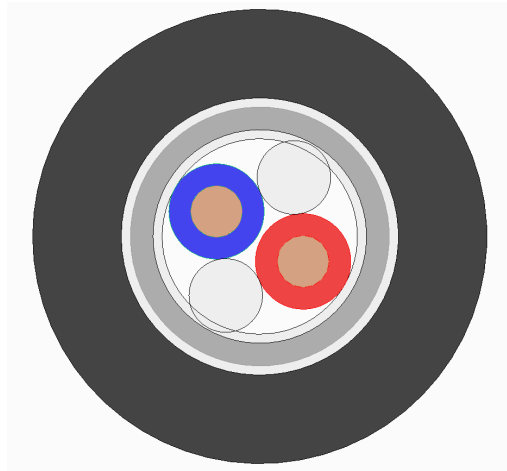


For two HSC30-2 cables with different potential routed next to each the following minimal distances should be used for partial free operation:

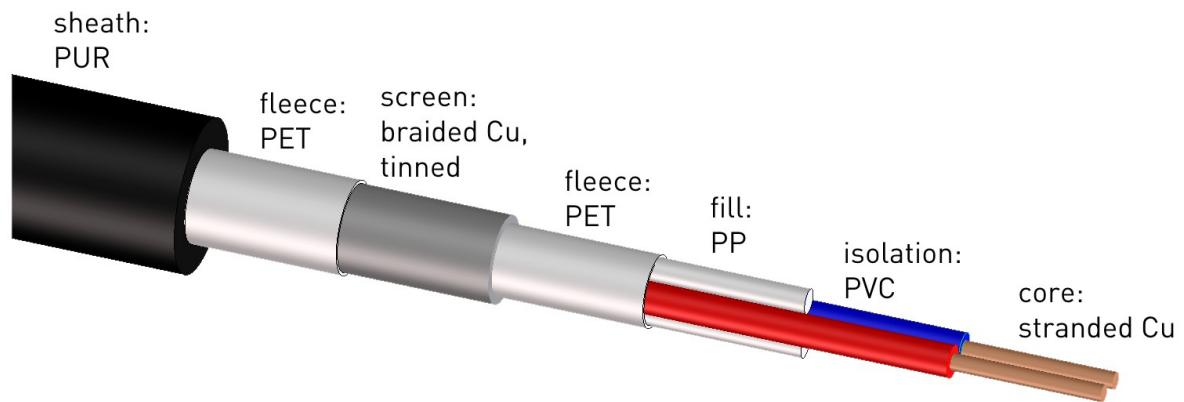


Because of the dependency on manifold ambient conditions the absence of partial discharges should be checked for each application separately.

## 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.