# DATA SHEET



# Compensating cable KCA FEP-Sil NiCr/Ni 2x0,22 IEC

DB1161011 valid from: 30.09.2015

## Application

The compensating cable KCA FEP-Sil NiCr/Ni 2x0,22 mm<sup>2</sup> is a FEP/Silicone rubber insulated compensating cable type KCA which transmits the thermoelectric voltage of NiCr/Ni thermocouples. It is for flexible use and fixed installation in dry and damp rooms. They may only be installed outdoors with UV protection and in observation of the max. permitted temperature range.

Compensating cables are made of conductors that have a different nominal composition as that of the corresponding thermocouple. In the application temperature range, the thermoelectric properties largely correspond to the characteristics of the thermocouple.

### Design

Conductor	0,22mm² (7 x 0,2mm)		
Conductor material	KCA alloys, accuracy class 2 according IEC 60584 Positive conductor: FE (iron, compensating material for NiCr) Negative conductor: CuNi (cupronickel, compensating material for Ni)		
Core insulation	FEP		
Core identification	0	reen vhite	
Stranding	Cores twisted together		
Outer sheath	Silicone rubber Colour: green		

#### Electrical properties at 20°C

Limiting deviation class 2	$\pm$ 100 $\mu V$ (± 2,5 °C) (acc. to IEC 60584-3)
Measuring point temperature	+900°C (acc. to IEC 60584-3)
Test voltage	500 V

#### Mechanical and thermal properties

Minimum bending radius	occassionally flexing: fixed installation:	12 x cable Ø 6 x cable Ø
Temperature range	occassionally flexing: fixed installation:	-50°C up to +180°C -50°C up to +180°C
Application temperature range	Type KCA: for item 1161011:	0°C up to +150°C (acc. to IEC 60584-3) 0°C up to +150°C (considering the Type KCA)
Flame retardant	acc. to IEC 60332-1-2	

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