Compensating cable
KCA Sil-GL-S NiCr/Ni 2x1,5 IEC oval

DB1161012
valid from: 30.09.2015

Application

The compensating cable KCA Sil-GL-S NiCr/Ni 2x1,5 mm² is a Silicone rubber/glass fibre braid insulated compensating cable type KCA with a protective braid made of galvanized steel wires. It 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	1,5mm² (48 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	Silicone rubber
Core identification	Positive conductor: green Negative conductor: white
Stranding	Cores not bunched
Outer sheath	Impregnated glass fibre braid With green tracer
Braid	Protective braid made of galvanized steel wires With green tracer

Electrical properties at 20°C

Limiting deviation class 2	± 100 µV (± 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 1161012:	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	