



DATA SHEET	0167513
IEC compensating cable KN 9 L-SY 2x1,5	valid from : 01.12.2008

Application

The compensating cable KN 9 L-SY 2 x 1,5 mm² is a PVC insulated cable with steel wire armouring which transmits the thermoelectric voltage of NiCr/Ni thermocouples. It is for flexible use and fixed installation in dry and damp rooms with medium mechanical load. They may only be installed outdoors with UV protection and in observation of the max. permitted temperature range. The steel wire armouring serves as mechanical protection.

Design

Conductor	1,5 mm ² (48 x 0,20 mm)
Conductor material	KCA alloying, accuracy class 2 according IEC 60584 Positive conductor: Fe (iron) Negative conductor: CuNi (cupronickel)
Core insulation	PVC compound
Core identification	Positive conductor: green Negative conductor: white
Core layering	Cores twisted together
Inner sheath	PVC compound, colour: green
Armouring	Galvanized steel wire braiding
Outer sheath	PVC compound, colour: green

Electrical properties

Limiting deviation class 2	$\pm 100 \mu\text{V}$ ($\pm 2,5 \text{ }^{\circ}\text{C}$) / measuring point temperature $+900 \text{ }^{\circ}\text{C}$
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Mechanical and thermal properties

Temperature range	occasional flexing: $-5 \text{ }^{\circ}\text{C}$ up to $+70 \text{ }^{\circ}\text{C}$
Minimum bending radius	occasional flexing: 15 x cable diameter
Flammability	flame retardant in acc. to IEC 60332-1-2 resp. VDE 0482-332-1-2

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