



<b>DATA SHEET</b>	01565XX
<b>DIN compensating cable KNL SY XX x 1,5</b>	valid from : 01.12.2008

## Application

The compensating cables KNL Version SY XX x 1,5 mm<sup>2</sup> are multi-cored PVC insulated cables with steel wire armouring which transmit the thermoelectric voltage of NiCr/Ni thermocouples. They are 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 <sup>2</sup> (48 x 0,20 mm)
Conductor material	KCA alloying, accuracy class 2 according DIN 43722 Positive conductor: Fe (iron) Negative conductor: CuNi (cupronickel)
Core insulation	PVC compound
Core identification	Positive conductor: red Negative conductor: green
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       $\pm 100 \mu\text{V} (\pm 2,5 \text{ }^\circ\text{C}) / \text{m}$  measuring point temperature +900 °C

## Mechanical and thermal properties

Temperature range	fixed installed:      -40 °C upto + 80 °C occasional flexing:      -5 °C up to +70 °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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