



DATA SHEET	01685XX
IEC compensating cable KNL ST XX x 2 x 1,5	valid from : 01.12.2008

Application

The compensating cables KNL Version ST XX x 2 x 1,5 mm² are twisted paired PVC insulated cables with aluminium foil screen 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 overlapping foil wrapping screens the cores against electromagnetic interference.

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
Screening	Aluminium clad plastic foil with tinned copper drain wire (7x0,30 mm)
Outer sheath	PVC compound, colour: green

Electrical properties

Limiting deviation class 2 ± 100 µV (± 2,5 °C) / 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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