

0168501	DATA SHEET	 LAPP
Valid from: 31.03.2025	IEC compensating cable KNL ST XX x 2 x 1,5	

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 cladded plastic foil with tinned copper drain wire	
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 installation:	-40 °C up to +80 °C
	occasional flexing:	-5 °C up to +70 °C
Minimum bending radius	occasional flexing:	15 x outer diameter
Flammability	flame retardant in acc. to IEC 60332-1-2 resp. EN 60332-1-2	

AbN
automation

Creator: LUJU/PCS	Document: DB0168501EN	Page 1 of 1
Released: ALTE/PDC	Version: 03	