


0166501	DATA SHEET	
Valid from: 01.04.2019	IEC compensating cable KNL SY XX x 1,5	

Application

The compensating cables KNL Version SY XX x 1,5 mm² 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 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	±100 µV (±2.5 °C) / measuring point temperature +900 °C
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Mechanical and thermal properties

Temperature range	fixed installed:	-40 °C up to +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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