

0168500	<b>DATA SHEET</b>	
Valid from: 01.04.2019	<b>IEC extension cable KEL ST XX x 2 x 1,5</b>	

## Application

The extension cables KEL Version ST XX x 2 x 1,5 mm<sup>2</sup> are twisted paired, PVC insulated cables with aluminium foil screen which transmit the thermoelectric voltage of Fe/CuNi 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 <sup>2</sup> (48 x 0.20 mm)	
Conductor material	JX alloying, accuracy class 2 according IEC 60584	
	Positive conductor:	Fe (iron)
	Negative conductor:	CuNi (cupronickel)
Core insulation	PVC compound	
Core identification	Positive conductor:	black
	Negative conductor:	white
Core layering	Cores twisted together	
Screening	Aluminium cladded plastic foil with tinned copper drain wire (7x0.30 mm)	
Outer sheath	PVC compound, colour:	black

## Electrical properties

Limiting deviation class 2	±140 µV (±2.5 °C) / measuring point temperature +500 °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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