



DATA SHEET	01555XX
DIN extension cable KEL SY XX x 1,5	valid from : 01.12.2008

Application

The extension cables KEL Version SY XX x 1,5 mm² are multi-cored PVC insulated cables with steel wire armouring 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 steel wire armouring serves as mechanical protection.

Design

Conductor	1,5 mm ² (48 x 0,20 mm)
Conductor material	LX 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: blue
Core layering	Cores twisted together
Inner sheath	PVC compound, colour: blue
Armouring	Galvanized steel wire braiding
Outer sheath	PVC compound, colour: blue

Electrical properties

Limiting deviation class 2 $\pm 140 \mu\text{V} (\pm 2,5 \text{ }^\circ\text{C}) / \text{m}$ measuring point temperature +500 °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

Originator: Frank Hörtnagl / PD-KL Approved: Werner Körner / TE	Document: DB0155501EN	page 1 of 1
--	----------------------------	-------------