

0165501	DATA SHEET	
Valid from: 01.04.2019	IEC extension cable KEL SY XX x 1,5	

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	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	
Inner sheath	PVC compound, colour:	black
Armouring	Galvanized steel wire braiding	
Outer sheath	PVC compound, colour:	black

Electrical properties

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

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	

Creator: TOME/PCM Released: ALTE/PDC	Document: DB0165501EN Version: 02	Page 1 of 1
---	--------------------------------------	-------------