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|---------------------------|-----------------------------------------------|------------------------------------------------------------------------------------|
| 0167513                   | <b>DATA SHEET</b>                             |  |
| Valid from:<br>01.04.2019 | <b>IEC compensating cable KN 9 L-SY 2x1,5</b> |                                                                                    |

## Application

The compensating cable KN 9 L-SY 2 x 1,5 mm<sup>2</sup> is a PVC insulated cable with steel wire armouring which transmits the thermoelectric voltage of NiCr/Ni thermocouples. It is 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 <sup>2</sup> (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 |
|----------------------------|---------------------------------------------------------|

## Mechanical and thermal properties

|                        |                                                                 |                     |
|------------------------|-----------------------------------------------------------------|---------------------|
| Temperature range      | 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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