

|                           |                                            |                                                                                    |
|---------------------------|--------------------------------------------|------------------------------------------------------------------------------------|
| 0152001                   | <b>DATA SHEET</b>                          |  |
| Valid from:<br>03.01.2019 | <b>DIN compensating cable KN 1 L 2x1,5</b> |                                                                                    |

## Application

The compensating cable KN 1 L 2 x 1,5 mm<sup>2</sup> are PVC insulated cores which transmit the thermoelectric voltage of NiCr/Ni thermocouples. They are for fixed installation in dry and damp rooms and may only be installed outdoors with mechanical and UV protection and in observation of the max. permitted temperature range.

## Design

|                     |                                                    |                    |
|---------------------|----------------------------------------------------|--------------------|
| Conductor           | 1.5 mm <sup>2</sup> (48 x 0.20 mm)                 |                    |
| Conductor material  | KCA 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:                                | green              |
| Core layering       | Cores twisted together                             |                    |
| Outer sheath        | No outer sheath                                    |                    |

## 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: | 12 x cable diameter |

|                                         |                                      |             |
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