

|                           |                                                 |                                                                                    |
|---------------------------|-------------------------------------------------|------------------------------------------------------------------------------------|
| 0162005                   | <b>DATA SHEET</b>                               |  |
| Valid from:<br>01.04.2019 | <b>IEC compensating cable KN 3 L 2x1,5 oval</b> |                                                                                    |

## Application

The compensating cable KN 3 L 2 x 1,5 mm<sup>2</sup> is a glass fibre insulated cable which transmits the thermoelectric voltage of NiCr/Ni thermocouples. It is for fixed installation in dry rooms and may only be installed outdoors with UV- and humidity 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 IEC 60584                |                    |
|                     | Positive conductor:                                               | Fe (iron)          |
|                     | Negative conductor:                                               | CuNi (cupronickel) |
| Core insulation     | Glass fibre covering                                              |                    |
| Core identification | Positive conductor:                                               | green marked       |
|                     | Negative conductor:                                               | white marked       |
| Core layering       | Cores parallel next to each other                                 |                    |
| Outer sheath        | Glass fibre braiding with interweaved green identification thread |                    |

## Electrical properties

|                            |                                                         |
|----------------------------|---------------------------------------------------------|
| Limiting deviation class 2 | ±100 µV (±2.5 °C) / measuring point temperature +900 °C |
|----------------------------|---------------------------------------------------------|

## Mechanical and thermal properties

|                        |                                                                 |                      |
|------------------------|-----------------------------------------------------------------|----------------------|
| Temperature range      | occasional flexing:                                             | -25 °C up to +200 °C |
| Minimum bending radius | occasional flexing:                                             | 12 x cable diameter  |
| Flammability           | flame retardant in acc. to IEC 60332-1-2 resp. VDE 0482-332-1-2 |                      |

AbN  
automation

|                                         |                                      |             |
|-----------------------------------------|--------------------------------------|-------------|
| Creator: TOME/PCM<br>Released: ALTE/PDC | Document: DB0162005EN<br>Version: 02 | Page 1 of 1 |
|-----------------------------------------|--------------------------------------|-------------|

We reserve all rights according to DIN ISO 16016.

PD 0019/05\_04.18EN