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|---------------------------|----------------------------------------------------|------------------------------------------------------------------------------------|
| 0163052                   | <b>DATA SHEET</b>                                  |  |
| Valid from:<br>01.04.2019 | <b>IEC compensating cable KP 5-022 L-CY 2x0,22</b> |                                                                                    |

## Application

The compensating cable KP 5-022 L-CY 2 x 0,22 mm<sup>2</sup> is a PVC insulated cable which transmits the thermo-electric voltage of PtRh/Pt thermocouples. It is for flexible use and fixed installation in dry and damp rooms. They may only be installed outdoors with UV protection and in observation of the max. permitted temperature range. The copper braiding screens the cable against electromagnetic interference.

## Design

|                     |                                                        |                    |
|---------------------|--------------------------------------------------------|--------------------|
| Conductor           | 0.22 mm <sup>2</sup> (7 x 0.20 mm)                     |                    |
| Conductor material  | RCB/SCB alloying, accuracy class 2 according IEC 60584 |                    |
|                     | Positive conductor:                                    | Cu (copper)        |
|                     | Negative conductor:                                    | CuNi (cupronickel) |
| Core insulation     | PVC compound                                           |                    |
| Core identification | Positive conductor:                                    | orange             |
|                     | Negative conductor:                                    | white              |
| Core layering       | Cores twisted together                                 |                    |
| Inner sheath        | PVC compound, colour:                                  | orange             |
| Screening           | tinned copper braiding                                 |                    |
| Outer sheath        | PVC compound, colour:                                  | orange             |

## Electrical properties

|                            |                                                         |
|----------------------------|---------------------------------------------------------|
| Limiting deviation class 2 | ±60 µV (±5.0 °C) / measuring point temperature +1000 °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 |                     |

AbN  
automation

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