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| DATA SHEET | 01575XX |
| DIN compensating cable KPL SY XX x 1,5 | valid from : 01.12.2008 |

Application

The compensating cables KPL Version SY XX x 1,5 mm² are multi-cored PVC insulated cables with steel wire armouring which transmit the thermoelectric voltage of PtRh/Pt 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

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| Conductor | 1,5 mm ² (48 x 0,20 mm) |
| Conductor material | RCB/SCB alloying, accuracy class 2 according DIN 43722 Positive conductor: Cu (copper) Negative conductor: CuNi (cupronickel) |
| Core insulation | PVC compound |
| Core identification | Positive conductor: red Negative conductor: white |
| Core layering | Cores twisted together |
| Inner sheath | PVC compound, colour: white |
| Armouring | Galvanized steel wire braiding |
| Outer sheath | PVC compound, colour: white |

Electrical properties

Limiting deviation class 2 $\pm 60 \mu\text{V}$ ($\pm 5,0 \text{ }^\circ\text{C}$) / measuring point temperature +1000 $^\circ\text{C}$

Mechanical and thermal properties

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| Temperature range | fixed installed: -40 $^\circ\text{C}$ upto + 80 $^\circ\text{C}$ occasional flexing: -5 $^\circ\text{C}$ up to +70 $^\circ\text{C}$ |
| 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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| Originator: Frank Hörtnagl / PD-KL Approved: Werner Körner / TE | Document: DB0157501EN | page 1 of 1 |
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