

1161019

Data sheet

Valid from:
12.02.2025Thermocouple cable N KG-KG NiCrSi/NiSi 2x0.8
IEC oval**LAPP**

Application

The thermocouple cable N KG-KG NiCrSi/NiSi 2x0.8 mm² is a ceramic yarn wrapped thermocouple cable type N, which transmits the thermoelectric voltage of NiCrSi/NiSi-thermocouples. It is for flexible use and fixed installation in dry rooms. They may only be installed outdoors with UV-protection and in observation of the maximum permitted temperature range.

Design

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|---------------------|---|
| Conductor | 0,8 mm ² (solid) |
| Conductor material | N alloys, according to IEC 60584-1 Positive conductor: NiCrSi (Nickel chromium silicon) Negative conductor: NiSi (Nickel silicon) |
| Core insulation | Ceramic yarn |
| Core identification | Positive conductor: pink Negative conductor: white |
| Core layering | Cores parallel next to each other |
| Outer braid | Braid made of ceramic yarn, with pink tracer yarn |

Electrical properties

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|-------------------------|--|
| Limiting deviation | ±2,5°C (acc. to IEC 60584-1) |
| Thermocouple tolerances | -40°C up to 1200°C (acc. to IEC 60584-1) |
| Test voltage | 500 V |

Mechanical and thermal properties

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|------------------------|---|
| Minimum bending radius | occassionally flexing: 20 x cable diameter fixed installation: 10 x cable diameter |
| Temperature range | occassionally flexing: -25°C up to +1200°C fixed installation: -50°C up to +1200°C |

AbN
automation