

1161017	Data sheet	
Valid from: 12.02.2025	Thermocouple cable N SIA-SIA NiCrSi/NiSi 2x0.8 IEC oval	

Application

The thermocouple cable N SIA-SIA NiCrSi/NiSi 2x0.8 mm² is a silica 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

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	Silica
Core identification	Positive conductor: pink Negative conductor: white
Core layering	Cores parallel next to each other
Outer braid	Braid made of Silica, with pink tracer yarn

Electrical properties

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

Minimum bending radius	occasionally flexing: 20 x cable diameter fixed installation: 10 x cable diameter
Temperature range	occasionally flexing: -25°C up to +1000°C fixed installation: -50°C up to +1000°C

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