

Thermocouple cable
K FEP-C-FEP NiCr/Ni 2X0,22 IEC

DB1161007
valid from: 30.09.2015

Application

The compensating cable K FEP-C-FEP NiCr/Ni 2X0,22 mm² is a FEP insulated thermocouple cable type K with a screening made of tinned copper and a FEP jacket. It transmits the thermoelectric voltage of NiCr/Ni thermocouples. It is for flexible use and fixed installation in dry and damp rooms. They may only be installed outdoors in observation of the max. permitted temperature range.

Design

Conductor	0,22mm ² (7 x 0,20mm)
Conductor material	K alloys, according IEC 60584-1 Positive conductor: NiCr (Nickel chromium) Negative conductor: Ni (Nickel)
Core insulation	FEP
Core identification	Positive conductor: green Negative conductor: white
Screen	Screening made of tinned copper
Stranding	Cores twisted together
Outer sheath	FEP Colour: green

Electrical properties

Limiting deviation	± 2,5°C (acc. to IEC 60584-1)
Thermocouple tolerances	- 40°C up to +1200°C (acc. to IEC 60584-3)
Test voltage	500 V

Mechanical and thermal properties

Minimum bending radius	occasionally flexing:	12 x cable Ø	
	fixed installation:	6 x cable Ø	
Temperature range	occasionally flexing:	-90°C up to +205°C	
	fixed installation:	-90°C up to +205°C	
Application temperature range	Type K:	-40°C up to +1200°C	(acc. to IEC 60584-1)
	for item 1161007:	-40°C up to +205°C	(considering the insulation)
Flame retardant	acc. to IEC 60332-1-2		