Extension- and compensating cables, paired

PVC, silicone or glass fibre-insulated

- Available in many different designs

RoHS

Product description

Application range

- The thermocouple is used to measure temperature as a part of monitoring the manufacturing process, thus the sheath material should be selected with reference to the maximum ambient temperature at its junction.
- Conductor materials (alloys):
  Fe/CuNi (LX, JX)
  Conductor alloys are identical to thermocouple alloys
- NiCr/Ni (KCA, KX)
  KCA version: compensating alloys, not identical to thermocouple alloys
  KX version - conductor alloys are identical to thermocouple alloys
- PtRh/Pt (RCB, SCB)
  Compensating alloys are not identical to thermocouple alloys

Product Make-up

- Design abbreviations:
  PVC: Polyvinylchloride
  SIL: Silicone rubber
  GL: Glass fibre
  C: Copper braiding screen
  ST: Aluminium foil screen
  S: Steel wire braiding
- Design, for example PVC-PVC-S-PVC:

- PVC core insulation
- PVC inner sheath
- Steel wire braiding
- PVC outer sheath

- Examples shown (top to bottom):
  Fe/CuNi DIN 2 x 1.5 PVC
  NiCr/Ni IEC 2 x 1.5 GL-GL
  PtRh/Pt IEC 2 x 1.5 GL-GL-S
  NiCr/Ni DIN 2 x 1.5 SIL-GL
  NiCr/Ni DIN 2 x 1.5 PVC-PVC
  PtRh/Pt DIN 2 x 1.5 SIL-SIL
  Fe/CuNi IEC 2 x 1.5 SIL-SIL-S
  NiCr/Ni IEC 2 x 1.5 SIL
  PtRh/Pt IEC 2 x 1.5 SIL-GL-S
  Fe/CuNi IEC 2 x 0.22 PVC-PVC-C-PVC
  NiCr/Ni IEC 2 x 1.5 PVC-ST-PVC
  Fe/CuNi DIN 2 x 1.5 PVC-PVC-S-PVC

Norm references / Approvals

- Colour identity code
  DIN 43710
  Negative conductor and outer sheath:
  Fe/CuNi: blue
  NiCr/Ni: green
  PtRh/Pt: white
  Positive conductor: always red
  IEC 60 584
  Positive conductor and outer sheath:
  Fe/CuNi: black
  NiCr/Ni: green
  PtRh/Pt: orange
  Negative conductor: always white

Technical Data

Classification	ETIM 5.0 Class-ID: EC000838 ETIM 5.0 Class-Description: Thermocouple cable
Based on	Limiting deviation in accordance with DIN and IEC in accordance with class 2
Conductor stranding	1.5 mm²: approx. 48 x 0.20 mm 0.75 mm²: approx. 24 x 0.20 mm 0.5 mm²: approx. 16 x 0.20 mm 0.22 mm²: approx. 7 x 0.20 mm
Minimum bending radius	Without metal braiding: 12 x cable diameter With metal braiding: 15 x cable diameter
Temperature range	(referring to insulation and sheath material) PVC: -5°C to +70°C Silicone: -25°C to +180°C Glass fibre: -25°C to +200°C