

Special applications

Temperature measurement (extension and compensating cables)

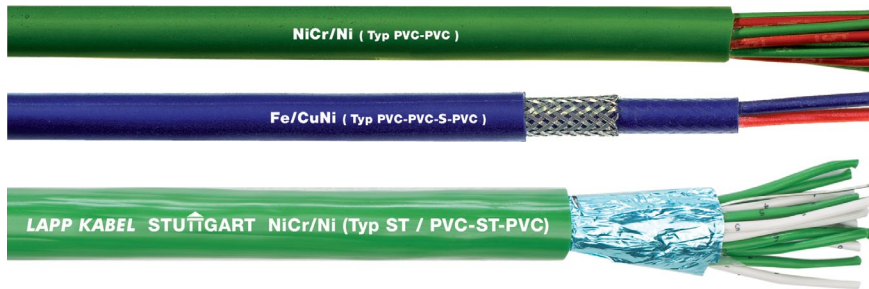
Article number	Reference/article designation	Thermocouple	Design	Cable design	Number of cores and mm ² per conductor	Outer diameter (mm)	Outer dimensions, width x height (mm)	Weight (kg/km)
Glass fibre-insulated versions 1.5 mm²								
0151005	KE 3 L	Fe/CuNi	DIN LX	GL-GL ovale	2 x 1.5		5.1 x 2.7	64
0161005	KE 3 L	Fe/CuNi	IEC JX	GL-GL ovale	2 x 1.5		5.1 x 2.7	64
0152005	KN 3 L	NiCr/Ni	DIN KCA	GL-GL ovale	2 x 1.5		5.1 x 2.7	64
0162005	KN 3 L	NiCr/Ni	IEC KCA	GL-GL ovale	2 x 1.5		5.1 x 2.7	64
0153005	KP 3 L	PtRh/Pt	DIN RCB, SCB	GL-GL ovale	2 x 1.5		5.1 x 2.7	64
0163005	KP 3 L	PtRh/Pt	IEC RCB, SCB	GL-GL ovale	2 x 1.5		5.1 x 2.7	64
0151006	KE 4 L-S	Fe/CuNi	DIN LX	GL-GL-S ovale	2 x 1.5		5.9 x 3.7	87
0161006	KE 4 L-S	Fe/CuNi	IEC JX	GL-GL-S ovale	2 x 1.5		5.9 x 3.7	87
0152006	KN 4 L-S	NiCr/Ni	DIN KCA	GL-GL-S ovale	2 x 1.5		5.9 x 3.7	87
0162006	KN 4 L-S	NiCr/Ni	IEC KCA	GL-GL-S ovale	2 x 1.5		5.9 x 3.7	87
0153006	KP 4 L-S	PtRh/Pt	DIN RCB, SCB	GL-GL-S ovale	2 x 1.5		5.9 x 3.7	87
0163006	KP 4 L-S	PtRh/Pt	IEC RCB, SCB	GL-GL-S ovale	2 x 1.5		5.9 x 3.7	87

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.
 Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths
 Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum
 Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).
 Photographs are not to scale and do not represent detailed images of the respective products.



Extension- and compensating cables, multi-paired

PVC insulated - with and without steel wire armouring or foil screen



Info

- Version SY - Armoured against mechanical loads
- Version ST - Screened against electromagnetic interference

Product make-up

- Version Y:**
 - Fine-wire conductor alloy
 - PVC core insulation
 - Cores twisted into layers
 - PVC outer sheath
- Version SY:**
 - Design as version Y
 - Additional galvanised steel wire braiding
 - PVC outer sheath
- Version ST:**
 - Design as version Y
 - Cores twisted in pairs, pairs twisted in layers
 - Aluminium foil screening + drain wire
 - PVC outer sheath
- Product make-up, for example PVC-PVC-S-PVC:**
 - PVC core insulation
 - PVC inner sheath
 - Steel wire braiding
 - PVC outer sheath

- Product make-up, for example PVC-ST-PVC:**
 - PVC core insulation
 - Static foil screen
 - PVC outer sheath
- 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
- Extension-conductor** alloys are identified with **X**, e.g. JX (Fe/CuNi)
- Compensating-conductor** alloys are identified with **C**, e.g. KCA (NiCr/Ni)

Technical data

Classification
 ETIM 5.0 Class-ID: EC000838
 ETIM 5.0 Class-Description: Thermocouple cable

Core identification code
 From 4 cores in pairs with consecutively marked numbers (1-1, 2-2, 3-3, 4-4...)

Based on
 Limiting deviation in accordance with DIN and IEC in accordance with class 2

Conductor stranding
 48 x 0.20 mm

Minimum bending radius
 For flexible use:
 12.5 x outer diameter
 Type SY with steel braid:
 15 x outer diameter
 Type ST with foil screen:
 15 x outer diameter

Temperature range
 (referring to insulation and sheath material)
 Flexing: -5°C to +70°C
 Fixed installation: -40°C to +80°C

Article number	Thermocouple	Design	Cable design	Number of cores and mm ² per conductor	Outer diameter (mm)	Weight (kg/km)
Type Y without steel wire braiding						
0155001	Fe/CuNi	DIN-LX	PVC-PVC	4 x 1.5	8.2	130
0165001	Fe/CuNi	IEC-JX	PVC-PVC	4 x 1.5	8.2	130
0156001	NiCr/Ni	DIN-KCA	PVC-PVC	4 x 1.5	8.2	130
0166001	NiCr/Ni	IEC-KCA	PVC-PVC	4 x 1.5	8.2	130
0157001	PtRh/Pt	DIN-RCB/SCB	PVC-PVC	4 x 1.5	8.2	130
0167001	PtRh/Pt	IEC-RCB/SCB	PVC-PVC	4 x 1.5	8.2	130
0155002	Fe/CuNi	DIN-LX	PVC-PVC	6 x 1.5	10.2	200
0165002	Fe/CuNi	IEC-JX	PVC-PVC	6 x 1.5	10.2	200

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 APPENDIX