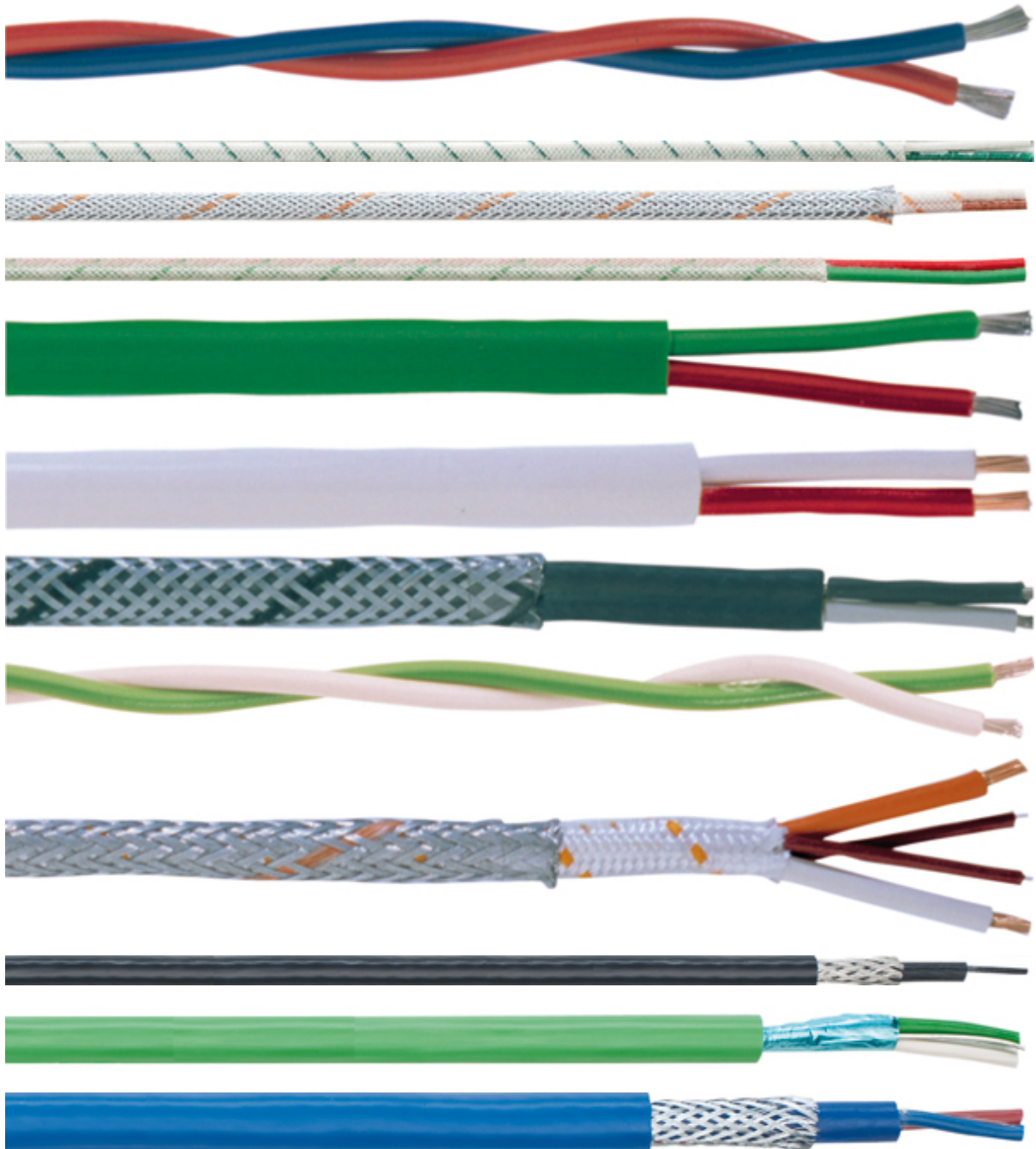


PVC, silicone or glass fibre insulated

Product Description



Application range

- For temperature measurement respectively manufacturing process controlling by the use of thermocouples. The

sheathing compound should be selected in relation to the maximum occurring ambient temperature around the thermocouple junction.

- Conductor materials (alloys):Fe/CuNi (LX, JX)Conductor alloys are identical with thermocouple alloys
- NiCr/Ni (KCA, KX)KCA version - compensating alloys, not identical with thermocouple alloysKX version - conductor alloys are identical with thermocouple alloys
- PtRh/Pt (RCB, SCB)Compensating alloys are not identical with thermocouple alloys

Design

- Used design abbreviations:PVC: PolyvinylchlorideSIL: Silicone rubberGL: Glass fibreC: Copper screen braidingST: Aluminium foil screenS: Steel wire braiding
- Design example for PVC-PVC-S-PVC:- PVC core insulation- PVC inner sheath- Steel wire braiding- PVC outer sheath
- Picture examples (top down):Fe/CuNi DIN 2x1,5 PVCNiCr/Ni IEC 2x1,5 GL-GLPtRh/Pt IEC 2x1,5 GL-GL-SNiCr/Ni DIN 2x1,5 SIL-GLNiCr/Ni DIN 2x1,5 PVC-PVCPtRh/Pt DIN 2x1,5 PVC-PVCFe/CuNi IEC 2x1,5 SIL-SIL-SNiCr/Ni IEC 2x1,5 SILPtRh/Pt IEC 2x1,5 SIL-GL-SFe/CuNi IEC 2x0,22 PVC-PVC-C-PVCNiCr/Ni IEC 2x1,5 PVC-ST-PVCFe/CuNi DIN 2x1,5 PVC-PVC-S-PVC

Approvals (Norm references)

- Colour identity codeDIN 43710Negative conductor and outer sheath:Fe/CuNi: blueNiCr/Ni: greenPtRh/Pt: whitePositive conductor: always redIEC 60 584Positive conductor and outer sheath:Fe/CuNi: blackNiCr/Ni: greenPtRh/Pt: orangeNegative conductor: always white

Technical Data

Based on

Limiting deviation in acc. with DIN and IEC in accordance with Class 2

Conductor stranding

1.5mm²: approx. 48 x 0.20mm 0.75mm²: approx. 24 x 0.20mm 0.5mm²: approx. 16 x 0.20mm 0.22mm²: approx. 7 x 0.20mm

Minimum bending radius

Without metal braiding: 12 x cable diameter
With metal braiding: 15 x cable diameter

Range of temperature

(referring to insulation and sheath compounds) PVC: -5°C up to +70°C Silicone: -25°C up to +180°C Glass fibre: -25°C up to +200°C

Article List

Part number	Reference/Article designation	Thermocouple	Design	cable design	Number of cores and mm ² per conductor	Outer dimensions in mm	Weight kg/km	Outer dimensions Width x height mm
Extension- respectively compensating cables 0.22 mm ²								
0151051	KE 9-022 L	Fe/CuNi	DIN LX	PVC-PVC	2 x .22	4	22	
0161051	KE 9-022 L	Fe/CuNi	IEC JX	PVC-PVC	2 x .22	4	22	
0152051	KN 9-022 L	NiCr/Ni	DIN KCA	PVC-PVC	2 x .22	4	22	
0162051	KN 9-022 L	NiCr/Ni	IEC KCA	PVC-PVC	2 x .22	4	22	
0153051	KP 9-022 L	PtRh/Pt	DIN RCB, SCB	PVC-PVC	2 x .22	4	22	
0163051	KP 9-022 L	PtRh/Pt	DIN RCB, SCB	PVC-PVC	2 x .22	4	22	
0151052	KE 5-022 L-CY	Fe/CuNi	DIN LX	PVC-PVC-C-PVC	2 x .22	4,9	31	
0161052	KE 5-022 L-CY	Fe/CuNi	IEC JX	PVC-PVC-C-PVC	2 x .22	4,9	31	
0152052	KN 5-022 L-CY	NiCr/Ni	DIN KCA	PVC-PVC-C-PVC	2 x .22	4,9	31	
0162052	KN 5-022 L-CY	NiCr/Ni	IEC KCA	PVC-PVC-C-PVC	2 x .22	4,9	31	

0153052	KP 5-022 L-CY	PtRh/Pt	DIN RCB, SCB	PVC-PVC-C-PVC	2 x .22	4,9	31	
0163052	KP 5-022 L-CY	PtRh/Pt	IEC RCB, SCB	PVC-PVC-C-PVC	2 x .22	4,9	31	
Extension- respectively compensating cables 0.5 mm ²								
0151030	KE 91 L	Fe/CuNi	DIN LX	PVC-PVC	2 x .5	5,4	45	
0161030	KE 91 L	Fe/CuNi	IEC JX	PVC-PVC	2 x .5	5,4	45	
0152040	KN 91 L	NiCr/Ni	DIN KCA	PVC-PVC	2 x .5	5,4	45	
0162040	KN 91 L	NiCr/Ni	IEC KCA	PVC-PVC	2 x .5	5,4	45	
0151040	KE 41 L-SIL	Fe/CuNi	DIN LX	SIL-SIL-S oval	2 x .5		51	6,4 x 4,4
0161040	KE 41 L-SIL	Fe/CuNi	IEC JX	SIL-SIL-S oval	2 x .5		51	6,4 x 4,4
0152030	KN 41 L-SIL	NiCr/Ni	DIN KCA	SIL-SIL-S oval	2 x .5		51	6,4 x 4,4
0162030	KN 41 L-SIL	NiCr/Ni	IEC KCA	SIL-SIL-S oval	2 x .5		51	6,4 x 4,4
Extension- respectively compensating cables 0.75 mm ²								
0151035	KE 92 L	Fe/CuNi	DIN LX	PVC-PVC	2 x .75	6	56	
0161035	KE 92 L	Fe/CuNi	IEC JX	PVC-PVC	2 x .75	6	56	
0152045	KN 92 L	NiCr/Ni	DIN KCA	PVC-PVC	2 x .75	6	56	
0162045	KN 92 L	NiCr/Ni	IEC KCA	PVC-PVC	2 x .75	6	56	
0151050	KE 42 L-SIL	Fe/CuNi	DIN LX	SIL-SIL-S oval	2 x .75		58	6,4 x 4,4
0161050	KE 42 L-SIL	Fe/CuNi	IEC JX	SIL-SIL-S oval	2 x .75		58	6,4 x 4,4
0152035	KN 42 L-SIL	NiCr/Ni	DIN KCA	SIL-SIL-S oval	2 x .75		58	6,4 x 4,4
0162035	KN 42 L-SIL	NiCr/Ni	IEC KCA	SIL-SIL-S oval	2 x .75		58	6,4 x 4,4
PVC insulated versions 1,5 mm ²								
0151001	KE 1 L	Fe/CuNi	DIN LX	PVC	2 x 1.5	5,4	40	
0161001	KE 1 L	Fe/CuNi	IEC JX	PVC	2 x 1.5	5,4	40	

0152001	KN 1 L	NiCr/Ni	DIN KCA	PVC	2 x 1.5	5,4	40	
0162001	KN 1 L	NiCr/Ni	IEC KCA	PVC	2 x 1.5	5,4	40	
0151010	KE 9 L	Fe/CuNi	DIN LX	PVC-PVC round	2 x 1.5	7,1	79	
0161010	KE 9 L	Fe/CuNi	IEC JX	PVC-PVC round	2 x 1.5	7,1	79	
0152010	KN 9 L	NiCr/Ni	DIN KCA	PVC-PVC round	2 x 1.5	7,1	79	
0162010	KN 9 L	NiCr/Ni	IEC KCA	PVC-PVC round	2 x 1.5	7,1	79	
0154010	KXN 9 L	NiCr/Ni	DIN KX	PVC-PVC round	2 x 1.5	7,1	79	
0164010	KXN 9 L	NiCr/Ni	IEC KX	PVC-PVC round	2 x 1.5	7,1	79	
0153010	KP 9 L	PtRh/Pt	DIN RCB, SCB	PVC-PVC round	2 x 1.5	7,1	79	
0163010	KP 9 L	PtRh/Pt	IEC RCB, SCB	PVC-PVC round	2 x 1.5	7,1	79	
0151017	KE 12 L	Fe/CuNi	DIN LX	PVC-PVC oval	2 x 1.5		69	7,2 x 4,4
0161017	KE 12 L	Fe/CuNi	IEC JX	PVC-PVC oval	2 x 1.5		69	7,2 x 4,4
0152017	KN 12 L	NiCr/Ni	DIN KCA	PVC-PVC oval	2 x 1.5		69	7,2 x 4,4
0162017	KN 12 L	NiCr/Ni	IEC KCA	PVC-PVC oval	2 x 1.5		69	7,2 x 4,4
0154011	KE 20 L	Fe/CuNi	DIN LX	PVC-ST-PVC	2 x 1.5	7,6	85	
0164011	KE 20 L	Fe/CuNi	IEC JX	PVC-ST-PVC	2 x 1.5	7,6	85	
0154012	KN 20 L	NiCr/Ni	DIN KCA	PVC-ST-PVC	2 x 1.5	7,6	85	
0164012	KN 20 L	NiCr/Ni	IEC KCA	PVC-ST-PVC	2 x 1.5	7,6	85	
0154013	KXN 20 L	NiCr/Ni	DIN KX	PVC-ST-PVC	2 x 1.5	7,6	85	
0164013	KXN 20 L	NiCr/Ni	IEC KX	PVC-ST-PVC	2 x 1.5	7,6	85	

0154014	KP 20 L	PtRh/Pt	DIN RCB, SCB	PVC-ST-PVC	2 x 1.5	7,6	85	
0164014	KP 20 L	PtRh/Pt	IEC RCB, SCB	PVC-ST-PVC	2 x 1.5	7,6	85	
0151011	KE 9 L-S	Fe/CuNi	DIN LX	PVC-PVC-S	2 x 1.5	8	140	
0161011	KE 9 L-S	Fe/CuNi	IEC JX	PVC-PVC-S	2 x 1.5	8	140	
0152011	KN 9 L-S	NiCr/Ni	DIN KCA	PVC-PVC-S	2 x 1.5	8	140	
0162011	KN 9 L-S	NiCr/Ni	IEC KCA	PVC-PVC-S	2 x 1.5	8	140	
0157514	KE 9 L-SY	Fe/CuNi	DIN LX	PVC-PVC-S-PVC	2 x 1.5	10,3	160	
0167514	KE 9 L-SY	Fe/CuNi	IEC JX	PVC-PVC-S-PVC	2 x 1.5	10,3	160	
0157513	KN 9 L-SY	NiCr/Ni	DIN KCA	PVC-PVC-S-PVC	2 x 1.5	10,3	160	
0167513	KN 9 L-SY	NiCr/Ni	IEC KCA	PVC-PVC-S-PVC	2 x 1.5	10,3	160	
0157515	KP 9 L-SY	PtRh/Pt	DIN RCB, SCB	PVC-PVC-S-PVC	2 x 1.5	10,3	160	
0167515	KP 9 L-SY	PtRh/Pt	IEC RCB, SCB	PVC-PVC-S-PVC	2 x 1.5	10,3	160	
Silicone insulated versions 1.5 mm ²								
0151003	KE 1 L-SIL	Fe/CuNi	DIN LX	SIL	2 x 1.5	5,4	40	
0161003	KE 1 L-SIL	Fe/CuNi	IEC JX	SIL	2 x 1.5	5,4	40	
0152003	KN 1 L-SIL	NiCr/Ni	DIN KCA	SIL	2 x 1.5	5,4	40	
0162003	KN 1 L-SIL	NiCr/Ni	IEC KCA	SIL	2 x 1.5	5,4	40	
0151022	KE 15 L-SIL	Fe/CuNi	DIN LX	SIL-SIL round	2 x 1.5	7	76	
0161022	KE 15 L-SIL	Fe/CuNi	IEC JX	SIL-SIL round	2 x 1.5	7	76	
0152022	KN 15 L-SIL	NiCr/Ni	DIN KCA	SIL-SIL round	2 x 1.5	7	76	
0162022	KN 15 L-SIL	NiCr/Ni	IEC KCA	SIL-SIL round	2 x 1.5	7	76	

0153022	KP 15 L-SIL	PtRh/Pt	DIN RCB, SCB	SIL-SIL round	2 x 1.5	7	76	
0163022	KP 15 L-SIL	PtRh/Pt	IEC RCB, SCB	SIL-SIL round	2 x 1.5	7	76	
0151023	KE 15 L-SIL-S	Fe/CuNi	DIN LX	SIL-SIL-S round	2 x 1.5	7,8	105	
0161023	KE 15 L-SIL-S	Fe/CuNi	IEC JX	SIL-SIL-S round	2 x 1.5	7,8	105	
0152023	KN 15 L-SIL-S	NiCr/Ni	DIN KCA	SIL-SIL-S round	2 x 1.5	7,8	105	
0162023	KN 15 L-SIL-S	NiCr/Ni	IEC KCA	SIL-SIL-S round	2 x 1.5	7,8	105	
0153023	KP 15 L-SIL-S	PtRh/Pt	DIN RCB, SCB	SIL-SIL-S round	2 x 1.5	7,8	105	
0163023	KP 15 L-SIL-S	PtRh/Pt	IEC RCB, SCB	SIL-SIL-S round	2 x 1.5	7,8	105	
0151007	KE 4 L-SIL-S	Fe/CuNi	DIN LX	SIL-SIL-S oval	2 x 1.5		85	8 x 5,2
0161007	KE 4 L-SIL-S	Fe/CuNi	IEC JX	SIL-SIL-S oval	2 x 1.5		85	8 x 5,2
0152007	KN 4 L-SIL-S	NiCr/Ni	DIN KCA	SIL-SIL-S oval	2 x 1.5		85	8 x 5,2
0162007	KN 4 L-SIL-S	NiCr/Ni	IEC KCA	SIL-SIL-S oval	2 x 1.5		85	8 x 5,2
0153007	KP 4 L-SIL-S	PtRh/Pt	DIN RCB, SCB	SIL-SIL-S oval	2 x 1.5		85	8 x 5,2
0163007	KP 4 L-SIL-S	PtRh/Pt	IEC RCB, SCB	SIL-SIL-S oval	2 x 1.5		85	8 x 5,2
0151019	KE 13 L-SIL	Fe/CuNi	DIN LX	SIL-GL oval	2 x 1.5		50	6 x 3,3
0161019	KE 13 L-SIL	Fe/CuNi	IEC JX	SIL-GL oval	2 x 1.5		50	6 x 3,3
0152019	KN 13 L-SIL	NiCr/Ni	DIN KCA	SIL-GL oval	2 x 1.5		50	6 x 3,3
0162019	KN 13 L-SIL	NiCr/Ni	IEC KCA	SIL-GL oval	2 x 1.5		50	6 x 3,3

0153019	KP 13 L-SIL	PtRh/Pt	DIN RCB, SCB	SIL-GL oval	2 x 1.5		50	6 x 3,3
0151015	KE 11 L-SIL-S	Fe/CuNi	DIN LX	SIL-GL-S	2 x 1.5	6,7	82	
0161015	KE 11 L-SIL-S	Fe/CuNi	IEC JX	SIL-GL-S	2 x 1.5	6,7	82	
0152015	KN 11 L-SIL-S	NiCr/Ni	DIN KCA	SIL-GL-S	2 x 1.5	6,7	82	
0162015	KN 11 L-SIL-S	NiCr/Ni	IEC KCA	SIL-GL-S	2 x 1.5	6,7	82	
0153015	KP 11 L-SIL-S	PtRh/Pt	DIN RCB, SCB	SIL-GL-S	2 x 1.5	6,7	82	
0163015	KP 11 L-SIL-S	PtRh/Pt	IEC RCB, SCB	SIL-GL-S	2 x 1.5	6,7	82	
Glass fibre insulated versions 1,5 mm ²								
0151005	KE 3 L	Fe/CuNi	DIN LX	GL-GL oval	2 x 1.5		64	5,1 x 2,7
0161005	KE 3 L	Fe/CuNi	IEC JX	GL-GL oval	2 x 1.5		64	5,1 x 2,7
0152005	KN 3 L	NiCr/Ni	DIN KCA	GL-GL oval	2 x 1.5		64	5,1 x 2,7
0162005	KN 3 L	NiCr/Ni	IEC KCA	GL-GL oval	2 x 1.5		64	5,1 x 2,7
0153005	KP 3 L	PtRh/Pt	DIN RCB, SCB	GL-GL oval	2 x 1.5		64	5,1 x 2,7
0163005	KP 3 L	PtRh/Pt	IEC RCB, SCB	GL-GL oval	2 x 1.5		64	5,1 x 2,7
0151006	KE 4 L-S	Fe/CuNi	DIN LX	GL-GL-S oval	2 x 1.5		87	5,9 x 3,7
0161006	KE 4 L-S	Fe/CuNi	IEC JX	GL-GL-S oval	2 x 1.5		87	5,9 x 3,7
0152006	KN 4 L-S	NiCr/Ni	DIN KCA	GL-GL-S oval	2 x 1.5		87	5,9 x 3,7
0162006	KN 4 L-S	NiCr/Ni	IEC KCA	GL-GL-S oval	2 x 1.5		87	5,9 x 3,7
0153006	KP 4 L-S	PtRh/Pt	DIN RCB, SCB	GL-GL-S oval	2 x 1.5		87	5,9 x 3,7



0163006	KP 4 L-S	PtRh/Pt	IEC RCB, SCB	GL-GL-S oval	2 x 1.5		87	5,9 x 3,7
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Footnote:

All product related values as shown are nominal values unless specified differently. Further values, e.g. tolerances we submit on request - if available and released for publication.

Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths

Packaging size: Coil <= 30 kg and <= 250 m, otherwise drum

Please specify the desired packaging size (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.