



**Description:** Extension- and compensating cables, paired KN 9 L\_

**Lapp code:** Lapp 0152010

The **Test voltage** of the cable Lapp 0152010 is /.

## 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

## Extension- and compensating cables, paired KN 9 L\_

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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

In our Cable list on next page you can find all interesting information acc. article Lapp 0152010 and much more.

CABLE LIST - all informations you need you can find here

| Product Name   | Lapp Nr.     | Reference/article designation | Thermocouple | Product Make-up | Cable design  | Number of cores and mm <sup>2</sup> per conductor | Outer diameter (mm) | Outer dimensions/width x height (mm) | Weight (kg/km) |
|--|--------------|-------------------------------|--------------|-----------------|---------------|---|---------------------|--------------------------------------|----------------|
| 0.22 mm <sup>2</sup> extension and compensating cables   |              |                               |              |                 |               |   |                     |                                      |                |
| Extension- and compensating cables, paired KE 9-022 L    | Lapp 0151051 | KE 9-022 L                    | Fe/CuNi      | DIN LX          | PVC-PVC       | 2 x 0,22  | 4.0                 |                                      | 22             |
| Extension- and compensating cables, paired KE 9-022 L    | Lapp 0161051 | KE 9-022 L                    | Fe/CuNi      | IEC JX          | PVC-PVC       | 2 x 0,22  | 4.0                 |                                      | 22             |
| Extension- and compensating cables, paired KN 9-022 L    | Lapp 0152051 | KN 9-022 L                    | NiCr/Ni      | DIN KCA         | PVC-PVC       | 2 x 0,22  | 4.0                 |                                      | 22             |
| Extension- and compensating cables, paired KN 9-022 L    | Lapp 0162051 | KN 9-022 L                    | NiCr/Ni      | IEC KCA         | PVC-PVC       | 2 x 0,22  | 4.0                 |                                      | 22             |
| Extension- and compensating cables, paired KP 9-022 L    | Lapp 0153051 | KP 9-022 L                    | PtRh/Pt      | DIN RCB, SCB    | PVC-PVC       | 2 x 0,22  | 4.0                 |                                      | 22             |
| Extension- and compensating cables, paired KP 9-022 L    | Lapp 0163051 | KP 9-022 L                    | PtRh/Pt      | IEC RCB, SCB    | PVC-PVC       | 2 x 0,22  | 4.0                 |                                      | 22             |
| Extension- and compensating cables, paired KE 5-022 L-CY | Lapp 0151052 | KE 5-022 L-CY                 | Fe/CuNi      | DIN LX          | PVC-PVC-C-PVC | 2 x 0,22  | 4,9                 |                                      | 31             |
| Extension- and compensating cables, paired KE 5-022 L-CY | Lapp 0161052 | KE 5-022 L-CY                 | Fe/CuNi      | IEC JX          | PVC-PVC-C-PVC | 2 x 0,22  | 4,9                 |                                      | 31             |
| Extension- and compensating cables, paired KN 5-022 L-CY | Lapp 0152052 | KN 5-022 L-CY                 | NiCr/Ni      | DIN KCA         | PVC-PVC-C-PVC | 2 x 0,22  | 4,9                 |                                      | 31             |
| Extension- and compensating cables, paired KN 5-022 L-CY | Lapp 0162052 | KN 5-022 L-CY                 | NiCr/Ni      | IEC KCA         | PVC-PVC-C-PVC | 2 x 0,22  | 4,9                 |                                      | 31             |

# Extension- and compensating cables, paired KN 9 L\_

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| Product Name   | Lapp Nr.     | Reference/article designation | Thermocouple | Product Make-up | Cable design    | Number of cores and mm <sup>2</sup> per conductor | Outer diameter (mm) | Outer dimensions/width x height (mm) | Weight (kg/km) |
|--|--------------|-------------------------------|--------------|-----------------|-----------------|---|---------------------|--------------------------------------|----------------|
| Extension- and compensating cables, paired KP 5-022 L-CY | Lapp 0153052 | KP 5-022 L-CY                 | PtRh/Pt      | DIN RCB, SCB    | PVC-PVC-C-PVC   | 2 x 0,22  | 4,9                 |                                      | 31             |
| Extension- and compensating cables, paired KP 5-022 L-CY | Lapp 0163052 | KP 5-022 L-CY                 | PtRh/Pt      | IEC RCB, SCB    | PVC-PVC-C-PVC   | 2 x 0,22  | 4,9                 |                                      | 31             |
| 0.5 mm <sup>2</sup> extension and compensating cables    |              |                               |              |                 |                 |   |                     |                                      |                |
| Extension- and compensating cables, paired KE 91 L       | Lapp 0151030 | KE 91 L                       | Fe/CuNi      | DIN LX          | PVC-PVC         | 2 x 0,5   | 5,4                 |                                      | 45             |
| Extension- and compensating cables, paired KE 91 L       | Lapp 0161030 | KE 91 L                       | Fe/CuNi      | IEC JX          | PVC-PVC         | 2 x 0,5   | 5,4                 |                                      | 45             |
| Extension- and compensating cables, paired KN 91 L       | Lapp 0152040 | KN 91 L                       | NiCr/Ni      | DIN KCA         | PVC-PVC         | 2 x 0,5   | 5,4                 |                                      | 45             |
| Extension- and compensating cables, paired KN 91 L       | Lapp 0162040 | KN 91 L                       | NiCr/Ni      | IEC KCA         | PVC-PVC         | 2 x 0,5   | 5,4                 |                                      | 45             |
| Extension- and compensating cables, paired KE 41 L-SIL   | Lapp 0151040 | KE 41 L-SIL                   | Fe/CuNi      | DIN LX          | SIL-SIL-S ovale | 2 x 0,5   |                     | 6,4 x 4,4                            | 51             |
| Extension- and compensating cables, paired KE 41 L-SIL   | Lapp 0161040 | KE 41 L-SIL                   | Fe/CuNi      | IEC JX          | SIL-SIL-S ovale | 2 x 0,5   |                     | 6,4 x 4,4                            | 51             |
| Extension- and compensating cables, paired KN 41 L-SIL   | Lapp 0152030 | KN 41 L-SIL                   | NiCr/Ni      | DIN KCA         | SIL-SIL-S ovale | 2 x 0,5   |                     | 6,4 x 4,4                            | 51             |
| Extension- and compensating cables, paired KN 41 L-SIL   | Lapp 0162030 | KN 41 L-SIL                   | NiCr/Ni      | IEC KCA         | SIL-SIL-S ovale | 2 x 0,5   |                     | 6,4 x 4,4                            | 51             |
| 0.75 mm <sup>2</sup> extension and compensating cables   |              |                               |              |                 |                 |   |                     |                                      |                |

# Extension- and compensating cables, paired KN 9 L\_

Lapp 0152010



| Product Name   | Lapp Nr.     | Reference/article designation | Thermocouple | Product Make-up | Cable design    | Number of cores and mm <sup>2</sup> per conductor | Outer diameter (mm) | Outer dimensions/width x height (mm) | Weight (kg/km) |
|--|--------------|-------------------------------|--------------|-----------------|-----------------|---|---------------------|--------------------------------------|----------------|
| Extension- and compensating cables, paired KE 92 L     | Lapp 0151035 | KE 92 L                       | Fe/CuNi      | DIN LX          | PVC-PVC         | 2 x 0,75  | 6.0                 |                                      | 56             |
| Extension- and compensating cables, paired KE 92 L     | Lapp 0161035 | KE 92 L                       | Fe/CuNi      | IEC JX          | PVC-PVC         | 2 x 0,75  | 6.0                 |                                      | 56             |
| Extension- and compensating cables, paired KN 92 L     | Lapp 0152045 | KN 92 L                       | NiCr/Ni      | DIN KCA         | PVC-PVC         | 2 x 0,75  | 6.0                 |                                      | 56             |
| Extension- and compensating cables, paired KN 92 L     | Lapp 0162045 | KN 92 L                       | NiCr/Ni      | IEC KCA         | PVC-PVC         | 2 x 0,75  | 6.0                 |                                      | 56             |
| Extension- and compensating cables, paired KE 42 L-SIL | Lapp 0151050 | KE 42 L-SIL                   | Fe/CuNi      | DIN LX          | SIL-SIL-S ovale | 2 x 0,75  |                     | 6,4 x 4,4                            | 58             |
| Extension- and compensating cables, paired KE 42 L-SIL | Lapp 0161050 | KE 42 L-SIL                   | Fe/CuNi      | IEC JX          | SIL-SIL-S ovale | 2 x 0,75  |                     | 6,4 x 4,4                            | 58             |
| Extension- and compensating cables, paired KN 42 L-SIL | Lapp 0152035 | KN 42 L-SIL                   | NiCr/Ni      | DIN KCA         | SIL-SIL-S ovale | 2 x 0,75  |                     | 6,4 x 4,4                            | 58             |
| Extension- and compensating cables, paired KN 42 L-SIL | Lapp 0162035 | KN 42 L-SIL                   | NiCr/Ni      | IEC KCA         | SIL-SIL-S ovale | 2 x 0,75  |                     | 6,4 x 4,4                            | 58             |
| PVC-insulated versions 1,5 mm <sup>2</sup>             |              |                               |              |                 |                 |   |                     |                                      |                |
| Extension- and compensating cables, paired KE 1 L      | Lapp 0151001 | KE 1 L                        | Fe/CuNi      | DIN LX          | PVC             | 2 x 1,5   | 5,4                 |                                      | 40             |
| Extension- and compensating cables, paired KE 1 L      | Lapp 0161001 | KE 1 L                        | Fe/CuNi      | IEC JX          | PVC             | 2 x 1,5   | 5,4                 |                                      | 40             |

# Extension- and compensating cables, paired KN 9 L\_

Lapp 0152010



| Product Name                                       | Lapp Nr.     | Reference/article designation | Thermocouple | Product Make-up | Cable design  | Number of cores and mm <sup>2</sup> per conductor | Outer diameter (mm) | Outer dimensions/width x height (mm) | Weight (kg/km) |
|--|--------------|-------------------------------|--------------|-----------------|---------------|---|---------------------|--------------------------------------|----------------|
| Extension- and compensating cables, paired KN 1 L  | Lapp 0152001 | KN 1 L                        | NiCr/Ni      | DIN KCA         | PVC           | 2 x 1,5   | 5,4                 |                                      | 40             |
| Extension- and compensating cables, paired KN 1 L  | Lapp 0162001 | KN 1 L                        | NiCr/Ni      | IEC KCA         | PVC           | 2 x 1,5   | 5,4                 |                                      | 40             |
| Extension- and compensating cables, paired KE 9 L  | Lapp 0151010 | KE 9 L                        | Fe/CuNi      | DIN LX          | PVC-PVC round | 2 x 1,5   | 7,1                 |                                      | 79             |
| Extension- and compensating cables, paired KE 9 L  | Lapp 0161010 | KE 9 L                        | Fe/CuNi      | IEC JX          | PVC-PVC round | 2 x 1,5   | 7,1                 |                                      | 79             |
| Extension- and compensating cables, paired KN 9 L  | Lapp 0152010 | KN 9 L                        | NiCr/Ni      | DIN KCA         | PVC-PVC round | 2 x 1,5   | 7,1                 |                                      | 79             |
| Extension- and compensating cables, paired KN 9 L  | Lapp 0162010 | KN 9 L                        | NiCr/Ni      | IEC KCA         | PVC-PVC round | 2 x 1,5   | 7,1                 |                                      | 79             |
| Extension- and compensating cables, paired KXN 9 L | Lapp 0154010 | KXN 9 L                       | NiCr/Ni      | DIN KX          | PVC-PVC round | 2 x 1,5   | 7,1                 |                                      | 79             |
| Extension- and compensating cables, paired KXN 9 L | Lapp 0164010 | KXN 9 L                       | NiCr/Ni      | IEC KX          | PVC-PVC round | 2 x 1,5   | 7,1                 |                                      | 79             |
| Extension- and compensating cables, paired KP 9 L  | Lapp 0153010 | KP 9 L                        | PtRh/Pt      | DIN RCB, SCB    | PVC-PVC round | 2 x 1,5   | 7,1                 |                                      | 79             |
| Extension- and compensating cables, paired KP 9 L  | Lapp 0163010 | KP 9 L                        | PtRh/Pt      | IEC RCB, SCB    | PVC-PVC round | 2 x 1,5   | 7,1                 |                                      | 79             |
| Extension- and compensating cables, paired KE 12 L | Lapp 0151017 | KE 12 L                       | Fe/CuNi      | DIN LX          | PVC-PVC ovale | 2 x 1,5   |                     | 7,2 x 4,4                            | 69             |

# Extension- and compensating cables, paired KN 9 L\_

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| Product Name  | Lapp Nr.     | Reference/article designation | Thermocouple | Product Make-up | Cable design  | Number of cores and mm <sup>2</sup> per conductor | Outer diameter (mm) | Outer dimensions/width x height (mm) | Weight (kg/km) |
|---|--------------|-------------------------------|--------------|-----------------|---------------|---|---------------------|--------------------------------------|----------------|
| Extension- and compensating cables, paired KE 12 L  | Lapp 0161017 | KE 12 L                       | Fe/CuNi      | IEC JX          | PVC-PVC ovale | 2 x 1,5   |                     | 7,2 x 4,4                            | 69             |
| Extension- and compensating cables, paired KN 12 L  | Lapp 0152017 | KN 12 L                       | NiCr/Ni      | DIN KCA         | PVC-PVC ovale | 2 x 1,5   |                     | 7,2 x 4,4                            | 69             |
| Extension- and compensating cables, paired KN 12 L  | Lapp 0162017 | KN 12 L                       | NiCr/Ni      | IEC KCA         | PVC-PVC ovale | 2 x 1,5   |                     | 7,2 x 4,4                            | 69             |
| Extension- and compensating cables, paired KE 20 L  | Lapp 0154011 | KE 20 L                       | Fe/CuNi      | DIN LX          | PVC-ST-PVC    | 2 x 1,5   | 7,6                 |                                      | 85             |
| Extension- and compensating cables, paired KE 20 L  | Lapp 0164011 | KE 20 L                       | Fe/CuNi      | IEC JX          | PVC-ST-PVC    | 2 x 1,5   | 7,6                 |                                      | 85             |
| Extension- and compensating cables, paired KN 20 L  | Lapp 0154012 | KN 20 L                       | NiCr/Ni      | DIN KCA         | PVC-ST-PVC    | 2 x 1,5   | 7,6                 |                                      | 85             |
| Extension- and compensating cables, paired KN 20 L  | Lapp 0164012 | KN 20 L                       | NiCr/Ni      | IEC KCA         | PVC-ST-PVC    | 2 x 1,5   | 7,6                 |                                      | 85             |
| Extension- and compensating cables, paired KXN 20 L | Lapp 0154013 | KXN 20 L                      | NiCr/Ni      | DIN KX          | PVC-ST-PVC    | 2 x 1,5   | 7,6                 |                                      | 85             |
| Extension- and compensating cables, paired KXN 20 L | Lapp 0164013 | KXN 20 L                      | NiCr/Ni      | IEC KX          | PVC-ST-PVC    | 2 x 1,5   | 7,6                 |                                      | 85             |
| Extension- and compensating cables, paired KP 20 L  | Lapp 0154014 | KP 20 L                       | PtRh/Pt      | DIN RCB, SCB    | PVC-ST-PVC    | 2 x 1,5   | 7,6                 |                                      | 85             |

# Extension- and compensating cables, paired KN 9 L\_

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| Product Name   | Lapp Nr.     | Reference/article designation | Thermocouple | Product Make-up | Cable design  | Number of cores and mm <sup>2</sup> per conductor | Outer diameter (mm) | Outer dimensions/width x height (mm) | Weight (kg/km) |
|--|--------------|-------------------------------|--------------|-----------------|---------------|---|---------------------|--------------------------------------|----------------|
| Extension- and compensating cables, paired KP 20 L   | Lapp 0164014 | KP 20 L                       | PtRh/Pt      | IEC RCB, SCB    | PVC-ST-PVC    | 2 x 1,5   | 7,6                 |                                      | 85             |
| Extension- and compensating cables, paired KE 9 L-S  | Lapp 0151011 | KE 9 L-S                      | Fe/CuNi      | DIN LX          | PVC-PVC-S     | 2 x 1,5   | 8.0                 |                                      | 140            |
| Extension- and compensating cables, paired KE 9 L-S  | Lapp 0161011 | KE 9 L-S                      | Fe/CuNi      | IEC JX          | PVC-PVC-S     | 2 x 1,5   | 8.0                 |                                      | 140            |
| Extension- and compensating cables, paired KN 9 L-S  | Lapp 0152011 | KN 9 L-S                      | NiCr/Ni      | DIN KCA         | PVC-PVC-S     | 2 x 1,5   | 8.0                 |                                      | 140            |
| Extension- and compensating cables, paired KN 9 L-S  | Lapp 0162011 | KN 9 L-S                      | NiCr/Ni      | IEC KCA         | PVC-PVC-S     | 2 x 1,5   | 8.0                 |                                      | 140            |
| Extension- and compensating cables, paired KE 9 L-SY | Lapp 0157514 | KE 9 L-SY                     | Fe/CuNi      | DIN LX          | PVC-PVC-S-PVC | 2 x 1,5   | 10,3                |                                      | 160            |
| Extension- and compensating cables, paired KE 9 L-SY | Lapp 0167514 | KE 9 L-SY                     | Fe/CuNi      | IEC JX          | PVC-PVC-S-PVC | 2 x 1,5   | 10,3                |                                      | 160            |
| Extension- and compensating cables, paired KN 9 L-SY | Lapp 0157513 | KN 9 L-SY                     | NiCr/Ni      | DIN KCA         | PVC-PVC-S-PVC | 2 x 1,5   | 10,3                |                                      | 160            |
| Extension- and compensating cables, paired KN 9 L-SY | Lapp 0167513 | KN 9 L-SY                     | NiCr/Ni      | IEC KCA         | PVC-PVC-S-PVC | 2 x 1,5   | 10,3                |                                      | 160            |
| Extension- and compensating cables, paired KP 9 L-SY | Lapp 0157515 | KP 9 L-SY                     | PtRh/Pt      | DIN RCB, SCB    | PVC-PVC-S-PVC | 2 x 1,5   | 10,3                |                                      | 160            |



# Extension- and compensating cables, paired KN 9 L\_

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| Product Name   | Lapp Nr.     | Reference/article designation | Thermocouple | Product Make-up | Cable design  | Number of cores and mm <sup>2</sup> per conductor | Outer diameter (mm) | Outer dimensions/width x height (mm) | Weight (kg/km) |
|--|--------------|-------------------------------|--------------|-----------------|---------------|---|---------------------|--------------------------------------|----------------|
| Extension- and compensating cables, paired KP 9 L-SY   | Lapp 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 <sup>2</sup>        |              |                               |              |                 |               |   |                     |                                      |                |
| Extension- and compensating cables, paired KE 1 L-SIL  | Lapp 0151003 | KE 1 L-SIL                    | Fe/CuNi      | DIN LX          | SIL           | 2 x 1,5   | 5,4                 |                                      | 40             |
| Extension- and compensating cables, paired KE 1 L-SIL  | Lapp 0161003 | KE 1 L-SIL                    | Fe/CuNi      | IEC JX          | SIL           | 2 x 1,5   | 5,4                 |                                      | 40             |
| Extension- and compensating cables, paired KN 1 L-SIL  | Lapp 0152003 | KN 1 L-SIL                    | NiCr/Ni      | DIN KCA         | SIL           | 2 x 1,5   | 5,4                 |                                      | 40             |
| Extension- and compensating cables, paired KN 1 L-SIL  | Lapp 0162003 | KN 1 L-SIL                    | NiCr/Ni      | IEC KCA         | SIL           | 2 x 1,5   | 5,4                 |                                      | 40             |
| Extension- and compensating cables, paired KE 15 L-SIL | Lapp 0151022 | KE 15 L-SIL                   | Fe/CuNi      | DIN LX          | SIL-SIL round | 2 x 1,5   | 7.0                 |                                      | 76             |
| Extension- and compensating cables, paired KE 15 L-SIL | Lapp 0161022 | KE 15 L-SIL                   | Fe/CuNi      | IEC JX          | SIL-SIL round | 2 x 1,5   | 7.0                 |                                      | 76             |
| Extension- and compensating cables, paired KN 15 L-SIL | Lapp 0152022 | KN 15 L-SIL                   | NiCr/Ni      | DIN KCA         | SIL-SIL round | 2 x 1,5   | 7.0                 |                                      | 76             |
| Extension- and compensating cables, paired KN 15 L-SIL | Lapp 0162022 | KN 15 L-SIL                   | NiCr/Ni      | IEC KCA         | SIL-SIL round | 2 x 1,5   | 7.0                 |                                      | 76             |
| Extension- and compensating cables, paired KP 15 L-SIL | Lapp 0153022 | KP 15 L-SIL                   | PtRh/Pt      | DIN RCB, SCB    | SIL-SIL round | 2 x 1,5   | 7.0                 |                                      | 76             |

DATASHEET FOR Extension- and compensating cables, paired KN 9 L\_ by

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# Extension- and compensating cables, paired KN 9 L\_

Lapp 0152010



| Product Name   | Lapp Nr.     | Reference/article designation | Thermocouple | Product Make-up | Cable design    | Number of cores and mm <sup>2</sup> per conductor | Outer diameter (mm) | Outer dimensions/width x height (mm) | Weight (kg/km) |
|--|--------------|-------------------------------|--------------|-----------------|-----------------|---|---------------------|--------------------------------------|----------------|
| Extension- and compensating cables, paired KP 15 L-SIL   | Lapp 0163022 | KP 15 L-SIL                   | PtRh/Pt      | IEC RCB, SCB    | SIL-SIL round   | 2 x 1,5   | 7,0                 |                                      | 76             |
| Extension- and compensating cables, paired KE 15 L-SIL-S | Lapp 0151023 | KE 15 L-SIL-S                 | Fe/CuNi      | DIN LX          | SIL-SIL-S round | 2 x 1,5   | 7,8                 |                                      | 105            |
| Extension- and compensating cables, paired KE 15 L-SIL-S | Lapp 0161023 | KE 15 L-SIL-S                 | Fe/CuNi      | IEC JX          | SIL-SIL-S round | 2 x 1,5   | 7,8                 |                                      | 105            |
| Extension- and compensating cables, paired KN 15 L-SIL-S | Lapp 0152023 | KN 15 L-SIL-S                 | NiCr/Ni      | DIN KCA         | SIL-SIL-S round | 2 x 1,5   | 7,8                 |                                      | 105            |
| Extension- and compensating cables, paired KN 15 L-SIL-S | Lapp 0162023 | KN 15 L-SIL-S                 | NiCr/Ni      | IEC KCA         | SIL-SIL-S round | 2 x 1,5   | 7,8                 |                                      | 105            |
| Extension- and compensating cables, paired KP 15 L-SIL-S | Lapp 0153023 | KP 15 L-SIL-S                 | PtRh/Pt      | DIN RCB, SCB    | SIL-SIL-S round | 2 x 1,5   | 7,8                 |                                      | 105            |
| Extension- and compensating cables, paired KP 15 L-SIL-S | Lapp 0163023 | KP 15 L-SIL-S                 | PtRh/Pt      | IEC RCB, SCB    | SIL-SIL-S round | 2 x 1,5   | 7,8                 |                                      | 105            |
| Extension- and compensating cables, paired KE 4 L-SIL-S  | Lapp 0151007 | KE 4 L-SIL-S                  | Fe/CuNi      | DIN LX          | SIL-SIL-S ovale | 2 x 1,5   |                     | 8 x 5,2                              | 85             |
| Extension- and compensating cables, paired KE 4 L-SIL-S  | Lapp 0161007 | KE 4 L-SIL-S                  | Fe/CuNi      | IEC JX          | SIL-SIL-S ovale | 2 x 1,5   |                     | 8 x 5,2                              | 85             |
| Extension- and compensating cables, paired KN 4 L-SIL-S  | Lapp 0152007 | KN 4 L-SIL-S                  | NiCr/Ni      | DIN KCA         | SIL-SIL-S ovale | 2 x 1,5   |                     | 8 x 5,2                              | 85             |

# Extension- and compensating cables, paired KN 9 L\_

Lapp 0152010



| Product Name   | Lapp Nr.     | Reference/article designation | Thermocouple | Product Make-up | Cable design    | Number of cores and mm <sup>2</sup> per conductor | Outer diameter (mm) | Outer dimensions/width x height (mm) | Weight (kg/km) |
|--|--------------|-------------------------------|--------------|-----------------|-----------------|---|---------------------|--------------------------------------|----------------|
| Extension- and compensating cables, paired KN 4 L-SIL-S  | Lapp 0162007 | KN 4 L-SIL-S                  | NiCr/Ni      | IEC KCA         | SIL-SIL-S ovale | 2 x 1,5   |                     | 8 x 5,2                              | 85             |
| Extension- and compensating cables, paired KP 4 L-SIL-S  | Lapp 0153007 | KP 4 L-SIL-S                  | PtRh/Pt      | DIN RCB, SCB    | SIL-SIL-S ovale | 2 x 1,5   |                     | 8 x 5,2                              | 85             |
| Extension- and compensating cables, paired KP 4 L-SIL-S  | Lapp 0163007 | KP 4 L-SIL-S                  | PtRh/Pt      | IEC RCB, SCB    | SIL-SIL-S ovale | 2 x 1,5   |                     | 8 x 5,2                              | 85             |
| Extension- and compensating cables, paired KE 13 L-SIL   | Lapp 0151019 | KE 13 L-SIL                   | Fe/CuNi      | DIN LX          | SIL-GL ovale    | 2 x 1,5   |                     | 6 x 3,3                              | 50             |
| Extension- and compensating cables, paired KE 13 L-SIL   | Lapp 0161019 | KE 13 L-SIL                   | Fe/CuNi      | IEC JX          | SIL-GL ovale    | 2 x 1,5   |                     | 6 x 3,3                              | 50             |
| Extension- and compensating cables, paired KN 13 L-SIL   | Lapp 0152019 | KN 13 L-SIL                   | NiCr/Ni      | DIN KCA         | SIL-GL ovale    | 2 x 1,5   |                     | 6 x 3,3                              | 50             |
| Extension- and compensating cables, paired KN 13 L-SIL   | Lapp 0162019 | KN 13 L-SIL                   | NiCr/Ni      | IEC KCA         | SIL-GL ovale    | 2 x 1,5   |                     | 6 x 3,3                              | 50             |
| Extension- and compensating cables, paired KP 13 L-SIL   | Lapp 0153019 | KP 13 L-SIL                   | PtRh/Pt      | DIN RCB, SCB    | SIL-GL ovale    | 2 x 1,5   |                     | 6 x 3,3                              | 50             |
| Extension- and compensating cables, paired KE 11 L-SIL-S | Lapp 0151015 | KE 11 L-SIL-S                 | Fe/CuNi      | DIN LX          | SIL-GL-S        | 2 x 1,5   | 6,7                 |                                      | 82             |
| Extension- and compensating cables, paired KE 11 L-SIL-S | Lapp 0161015 | KE 11 L-SIL-S                 | Fe/CuNi      | IEC JX          | SIL-GL-S        | 2 x 1,5   | 6,7                 |                                      | 82             |

# Extension- and compensating cables, paired KN 9 L\_

Lapp 0152010



| Product Name   | Lapp Nr.     | Reference/article designation | Thermocouple | Product Make-up | Cable design  | Number of cores and mm <sup>2</sup> per conductor | Outer diameter (mm) | Outer dimensions/width x height (mm) | Weight (kg/km) |
|--|--------------|-------------------------------|--------------|-----------------|---------------|---|---------------------|--------------------------------------|----------------|
| Extension- and compensating cables, paired KN 11 L-SIL-S | Lapp 0152015 | KN 11 L-SIL-S                 | NiCr/Ni      | DIN KCA         | SIL-GL-S      | 2 x 1,5   | 6,7                 |                                      | 82             |
| Extension- and compensating cables, paired KN 11 L-SIL-S | Lapp 0162015 | KN 11 L-SIL-S                 | NiCr/Ni      | IEC KCA         | SIL-GL-S      | 2 x 1,5   | 6,7                 |                                      | 82             |
| Extension- and compensating cables, paired KP 11 L-SIL-S | Lapp 0153015 | KP 11 L-SIL-S                 | PtRh/Pt      | DIN RCB, SCB    | SIL-GL-S      | 2 x 1,5   | 6,7                 |                                      | 82             |
| Extension- and compensating cables, paired KP 11 L-SIL-S | Lapp 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 <sup>2</sup>       |              |                               |              |                 |               |   |                     |                                      |                |
| Extension- and compensating cables, paired KE 3 L        | Lapp 0151005 | KE 3 L                        | Fe/CuNi      | DIN LX          | GL-GL ovale   | 2 x 1,5   |                     | 5,1 x 2,7                            | 64             |
| Extension- and compensating cables, paired KE 3 L        | Lapp 0161005 | KE 3 L                        | Fe/CuNi      | IEC JX          | GL-GL ovale   | 2 x 1,5   |                     | 5,1 x 2,7                            | 64             |
| Extension- and compensating cables, paired KN 3 L        | Lapp 0152005 | KN 3 L                        | NiCr/Ni      | DIN KCA         | GL-GL ovale   | 2 x 1,5   |                     | 5,1 x 2,7                            | 64             |
| Extension- and compensating cables, paired KN 3 L        | Lapp 0162005 | KN 3 L                        | NiCr/Ni      | IEC KCA         | GL-GL ovale   | 2 x 1,5   |                     | 5,1 x 2,7                            | 64             |
| Extension- and compensating cables, paired KP 3 L        | Lapp 0153005 | KP 3 L                        | PtRh/Pt      | DIN RCB, SCB    | GL-GL ovale   | 2 x 1,5   |                     | 5,1 x 2,7                            | 64             |
| Extension- and compensating cables, paired KP 3 L        | Lapp 0163005 | KP 3 L                        | PtRh/Pt      | IEC RCB, SCB    | GL-GL ovale   | 2 x 1,5   |                     | 5,1 x 2,7                            | 64             |
| Extension- and compensating cables, paired KE 4 L-S      | Lapp 0151006 | KE 4 L-S                      | Fe/CuNi      | DIN LX          | GL-GL-S ovale | 2 x 1,5   |                     | 5,9 x 3,7                            | 87             |

# Extension- and compensating cables, paired KN 9 L\_

Lapp 0152010



| Product Name  | Lapp Nr.     | Reference/article designation | Thermocouple | Product Make-up | Cable design  | Number of cores and mm <sup>2</sup> per conductor | Outer diameter (mm) | Outer dimensions/width x height (mm) | Weight (kg/km) |
|---|--------------|-------------------------------|--------------|-----------------|---------------|---|---------------------|--------------------------------------|----------------|
| Extension- and compensating cables, paired KE 4 L-S | Lapp 0161006 | KE 4 L-S                      | Fe/CuNi      | IEC JX          | GL-GL-S ovale | 2 x 1,5   |                     | 5,9 x 3,7                            | 87             |
| Extension- and compensating cables, paired KN 4 L-S | Lapp 0152006 | KN 4 L-S                      | NiCr/Ni      | DIN KCA         | GL-GL-S ovale | 2 x 1,5   |                     | 5,9 x 3,7                            | 87             |
| Extension- and compensating cables, paired KN 4 L-S | Lapp 0162006 | KN 4 L-S                      | NiCr/Ni      | IEC KCA         | GL-GL-S ovale | 2 x 1,5   |                     | 5,9 x 3,7                            | 87             |
| Extension- and compensating cables, paired KP 4 L-S | Lapp 0153006 | KP 4 L-S                      | PtRh/Pt      | DIN RCB, SCB    | GL-GL-S ovale | 2 x 1,5   |                     | 5,9 x 3,7                            | 87             |
| Extension- and compensating cables, paired KP 4 L-S | Lapp 0163006 | KP 4 L-S                      | PtRh/Pt      | IEC RCB, SCB    | GL-GL-S ovale | 2 x 1,5   |                     | 5,9 x 3,7                            | 87             |