



- Easy selection of the necessary components
- Large variant variety
- Quick to install

These connection kits have been specifically designed for EMK heating cables and their particular fields of application. There are two versions of the EMK connection kit available: **Standard version** and **Ex version** for use in hazardous areas. The EMK connection kits consist of: **Cold leads** in the required quantity, **hot to cold joints** in the required quantity, **pre-cut and factory terminated assembly** of the cold leads and hot to cold joints with EMK heating cable (heating cables must be ordered separately. See ordering information).

1

**Ordering information** Standard heating circuits, pre-assembled  
(with cold lead 1.2 m; 2.5 mm<sup>2</sup>, M20 brass)

Short form title CuNi	Code No.	Short form title VA	Code No.
EMK CuNi 0011	<b>03</b>	EMK VA 0160	<b>15</b>
EMK CuNi 0017	<b>04</b>	EMK VA 0250	<b>16</b>
EMK CuNi 0025	<b>05</b>	EMK VA 0400	<b>17</b>
EMK CuNi 0040	<b>06</b>	EMK VA 0630	<b>18</b>
EMK CuNi 0063	<b>07</b>	EMK VA 1000	<b>19</b>
EMK CuNi 0160	<b>08</b>	EMK VA 1600	<b>20</b>
EMK CuNi 0250	<b>10</b>	EMK VA 2500	<b>21</b>
EMK CuNi 0400	<b>11</b>	EMK VA 4000	<b>22</b>
EMK CuNi 0630	<b>12</b>	EMK VA 6300	<b>23</b>
EMK CuNi 1000	<b>13</b>	EMK VA 10K	<b>24</b>
EMK CuNi 1600	<b>14</b>		

27-3623-02   0101

27-3623-04   0101

**Complete order no.** Please insert correct code.  
Technical data subject to change without notice.

**Ordering information** Ex heating circuits, pre-assembled  
(with cold lead 1.2 m; 2.5 mm<sup>2</sup>, M20 brass)

Short form title CuNi	Code No.	Short form title VA	Code No.
EMK CuNi 0011	<b>03</b>	EMK VA 0160	<b>15</b>
EMK CuNi 0017	<b>04</b>	EMK VA 0250	<b>16</b>
EMK CuNi 0025	<b>05</b>	EMK VA 0400	<b>17</b>
EMK CuNi 0040	<b>06</b>	EMK VA 0630	<b>18</b>
EMK CuNi 0063	<b>07</b>	EMK VA 1000	<b>19</b>
EMK CuNi 0160	<b>08</b>	EMK VA 1600	<b>20</b>
EMK CuNi 0250	<b>10</b>	EMK VA 2500	<b>21</b>
EMK CuNi 0400	<b>11</b>	EMK VA 4000	<b>22</b>
EMK CuNi 0630	<b>12</b>	EMK VA 6300	<b>23</b>
EMK CuNi 1000	<b>13</b>	EMK VA 10K	<b>24</b>
EMK CuNi 1600	<b>14</b>		

27-3621-02   0101

27-3621-04   0101

**Complete order no.** Please insert correct code.  
Technical data subject to change without notice.

The "Standard" connection kits for EMK heating cables are available in 3 versions: EMK Standard 300, EMK Standard 400 S and EMK Standard 400 D. The necessary junction box must be ordered for each pre-assembled EMK heating circuit depending on the type of wiring (single-phase, two-phase, star connection, delta connection).

**Technical data** Junction box "Standard"

Material	Polyester, glass-fibre reinforced
Colour	grey, similar to RAL 7001
Surface resistance	$> 10^{12} \Omega$
Protection class	IP 65
Cable gland	IP 54 to IP 65
Cover screws	stainless steel

**Technical data** Cold leads

Standard length	1.2 m
Rated resistance	7 $\Omega$ /km
Outer diameter	5.3 mm
Cross section	2.5 mm <sup>2</sup>
Conductor material	copper
Outer jacket material	CuNi, VA 1.4541
Bend radius	3 x external diameter
Gland, terminal connection	M20

**Technical data** Hot to cold connection joint

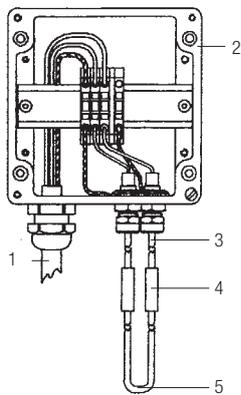
Material	SS 1.4401
Protection class	IP 65
Dimensions	L = 35 mm, $\varnothing$ = 10 mm

**Ordering information** Standard Junction box

Version Heating circuit	Supply voltage AC	Qty/ enclosure size (mm)	Qty/ terminal with 6 mm <sup>2</sup>	Terminal identification	Qty/ terminals	Qty/cold leads dry connections	Glands per enclosure	Terminal range	Order no.
300 CuNi 300 VA	up to 500 V	1 unit 160 x 160 x 90	each 2	L N (L1; L2)	2 with 6 mm <sup>2</sup>	2	1 x M25 2 x threaded M20	$\varnothing$ 7 to 17 mm	<b>07-5177-9100</b>
400 S CuNi 400 S VA		2 unit 160 x 160 x 90	each 6	3 x L1; 3 x N; 1 - 6 (L2; L3)	4 with 6 mm <sup>2</sup>	6	1 x M25 4 x threaded M20		2 unit <b>07-5177-9098</b>
400 D CuNi 400 D VA		1 unit 260 x 160 x 90	each 6	2 x L1; 2 x L2; 2 x L3; 1 - 7	6 with 6 mm <sup>2</sup>	6	1 x M25 3 x threaded M20		<b>07-5177-9099</b>

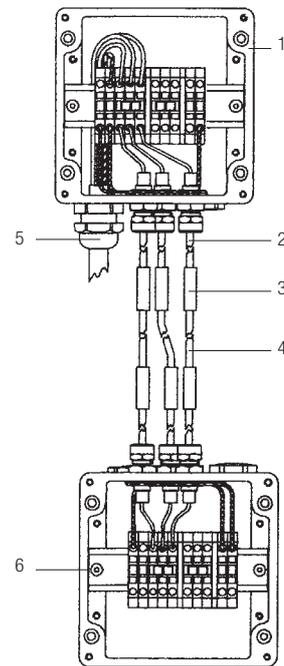
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**Standard 300**



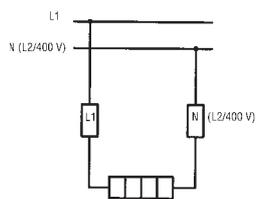
- 1 Mains supply
- 2 Heating circuit junction box
- 3 Cold lead
- 4 Hot to cold connection joint
- 5 Heating cable

**Standard 400 S** Typical star connection diagram



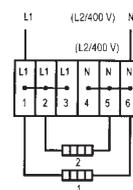
- 1 Heating circuit junction box
- 2 Cold lead
- 3 Hot to cold connection joint
- 4 Heating cable
- 5 Mains supply
- 6 EMK "Standard" star connection enclosure

**Connection diagram** Standard 300

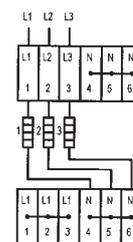


**Connection diagram** Standard 400 S

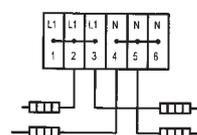
Double junction box



Star connection

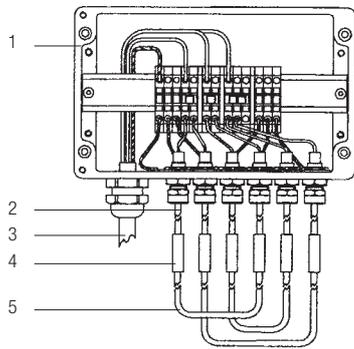


Intermediate junction box



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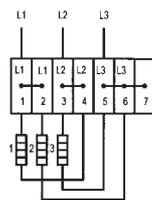
**Standard 400 D** Typical delta connection diagram



- 1 Heating circuit junction box
- 2 Cold lead
- 3 Mains supply
- 4 Hot to cold connection joint
- 5 Heating cable

**Connection diagram** Standard 400 D

Delta connection



Star connection

