



Junction boxes without limits!



WKE Duo |  
Cable junction and connection boxes



#### Advantages

- 5 enclosure sizes, fitted with 6<sup>2</sup> to 16<sup>2</sup> terminals
- External mounting brackets for quick installation
- Optional mounting on cable tray
- Accessories supplied
- Fully pre-assembled
- Certified by MPA

#### Testing

- Certified acc.to EN 60670
- Intrinsic fire resistance E30-E90 acc. to DIN 4102-12
- Insulation integrity FE180 acc.to IEC 60331-11
- Functional life F400 acc. to EN 12101-3

#### WKE Duo for a cable junction box

- Without limits up to the maximum cross section
- With the ability to change the cross section

IP65  
IP54

E30-  
E90

FE180

F400

16<sup>2</sup>









IK05





450V  
AC/DC



Cable junction and connection box with IP54 / IP65 certified acc. EN 60670, with intrinsic fire resistance E30 – E90 acc. DIN 4102 Part 12, with insulation integrity FE180 acc. IEC 60331-11 as well as functional life F400 acc. EN 12101, halogen-free housing made from special duroplastic, terminals made from high temperature-proof special ceramics, rapid mounting thanks to external brackets and wall + ceiling attachment set D6

	Description	Order-No.
<p><b>WKE 2 - Duo 3 x 6<sup>2</sup></b> 100 x 100 x 50 mm</p> 	<p><b>Connection box:</b> 3 pole 0.5 - 6 mm<sup>2</sup>  <b>Junction box</b> 3 pole 0.5 - 6 mm<sup>2</sup>  <b>Number of conductors per pole:</b>            16 x 0.5<sup>2</sup> / 8x 0.75<sup>2</sup> / 12 x 1<sup>2</sup> / 12 x 1.5<sup>2</sup> / 4 x 2.5<sup>2</sup> / 4 x 4<sup>2</sup> / 4 x 6<sup>2</sup>  <b>Accessories supplied:</b> Drilling template, D6 wall + ceiling attachment set            4 IP54 attachment bushes M25, seal range 9 - 18.5 mm            1 IP54 blanking plug M25, seal range 9 - 18.5 mm</p>	861 400 01
<p><b>WKE 3 - Duo 3 x 6<sup>2</sup> / 2 x 6<sup>2</sup></b> 115 x 115 x 66 mm</p> 	<p><b>Connection box:</b> 5 pole 0.5 - 6 mm<sup>2</sup>  <b>Junction box</b> 3 pole 0.5 - 6 mm<sup>2</sup>  <b>Number of conductors per pole:</b>            16 x 0.5<sup>2</sup> / 8x 0.75<sup>2</sup> / 12 x 1<sup>2</sup> / 12 x 1.5<sup>2</sup> / 4 x 2.5<sup>2</sup> / 4 x 4<sup>2</sup> / 4 x 6<sup>2</sup>            In the 2-pole pass through 8 x 0.5<sup>2</sup> / 4 x 0.75<sup>2</sup> / 6 x 1<sup>2</sup> / 6 x 1.5<sup>2</sup> / 2 x 2.5<sup>2</sup> / 2 x 4 / 2 x 6<sup>2</sup>  <b>Accessories supplied:</b> Drilling template, D6 wall + ceiling attachment set            4 IP54 attachment bushes M32, seal range 13 - 23 mm            1 IP54 blanking plug M32, seal range 13 - 23 mm</p>	861 710 01
<p><b>WKE 4 - Duo 5 x 6<sup>2</sup></b> 165 x 165 x 76 mm</p> 	<p><b>Connection box:</b> 5 pole 0.5 - 6 mm<sup>2</sup>  <b>Junction box</b> 5 pole 0.5 - 6 mm<sup>2</sup>  <b>Number of conductors per pole:</b>            16 x 0.5<sup>2</sup> / 8x 0.75<sup>2</sup> / 12 x 1<sup>2</sup> / 12 x 1.5<sup>2</sup> / 4 x 2.5<sup>2</sup> / 4 x 4<sup>2</sup> / 4 x 6<sup>2</sup>  <b>Accessories supplied:</b> Drilling template, D6 wall + ceiling attachment set            4 IP54 attachment bushes M40, seal range 17 - 30 mm            1 IP54 blanking plug M40, seal range 17 - 30 mm</p>	861 410 01
<p><b>WKE 4 - Duo 3 x 10<sup>2</sup></b> 165 x 165 x 76 mm</p> 	<p><b>Connection box:</b> 3 pole 1 - 10 mm<sup>2</sup>  <b>Junction box</b> 3 pole 1 - 10mm<sup>2</sup>  <b>Number of conductors per pole:</b>            20 x 1<sup>2</sup> / 16 x 1.5<sup>2</sup> / 12 x 2.5<sup>2</sup> / 8 x 4<sup>2</sup> / 4 x 6<sup>2</sup> / 4 x 10<sup>2</sup>  <b>Accessories supplied:</b> Drilling template, D6 wall + ceiling attachment set            4 IP54 attachment bushes M40, seal range 17 - 30 mm            1 IP54 blanking plug M40, seal range 17 - 30 mm</p>	861 500 01
<p><b>WKE 4 - Duo 3 x 16<sup>2</sup></b> 165 x 165 x 76 mm</p> 	<p><b>Connection box:</b> 3 pole 1.5 - 16 mm<sup>2</sup>  <b>Junction box</b> 3 pole 1.5 - 16 mm<sup>2</sup>  <b>Number of conductors per pole:</b>            20 x 1.5<sup>2</sup> / 16 x 2.5<sup>2</sup> / 12 x 4<sup>2</sup> / 8 x 6<sup>2</sup> / 4 x 10<sup>2</sup> / 4 x 16<sup>2</sup>  <b>Accessories supplied:</b> Drilling template, D6 wall + ceiling attachment set            4 IP54 attachment bushes M40, seal range 17 - 30 mm            1 IP54 blanking plug M40, seal range 17 - 30 mm</p>	861 600 01
<p><b>WKE 5 - Duo 7 x 6<sup>2</sup></b> 256 x 171 x 106 mm</p> 	<p><b>Connection box:</b> 7 pole 0.5 - 6 mm<sup>2</sup>  <b>Junction box</b> 7 pole 0.5 - 6 mm<sup>2</sup>  <b>Number of conductors per pole:</b>            16 x 0.5<sup>2</sup> / 8x 0.75<sup>2</sup> / 12 x 1<sup>2</sup> / 12 x 1.5<sup>2</sup> / 4 x 2.5<sup>2</sup> / 4 x 4<sup>2</sup> / 4 x 6<sup>2</sup>  <b>Accessories supplied:</b> Drilling template, D6 wall + ceiling attachment set            6 IP54 attachment bushes M20, seal range 8 - 13 mm            2 IP54 double fitting M40, seal range 17 - 30 mm            2 IP54 attachment bushes M40, seal range 17 - 30 mm            1 IP54 blanking plug M20, seal range 8 - 13,5 mm            1 IP54 blanking plug M40, seal range 17 - 30 mm</p>	861 420 01
<p><b>WKE 5 - Duo 5 x 10<sup>2</sup></b> 256 x 171 x 106 mm</p> 	<p><b>Connection box:</b> 5 pole 0.5 - 10 mm<sup>2</sup>  <b>Junction box</b> 5 pole 0.5 - 10 mm<sup>2</sup>  <b>Number of conductors per pole:</b>            20 x 1<sup>2</sup> / 16 x 1.5<sup>2</sup> / 12 x 2.5<sup>2</sup> / 8 x 4<sup>2</sup> / 4 x 6<sup>2</sup> / 4 x 10<sup>2</sup>  <b>Accessories supplied:</b> Drilling template, D6 wall + ceiling attachment set            6 IP54 attachment bushes M20, seal range 8 - 13 mm            2 IP54 double fitting M40, seal range 17 - 30 mm            2 IP54 attachment bushes M40, seal range 17 - 30 mm            1 IP54 blanking plug M20, seal range 8 - 13,5 mm            1 IP54 blanking plug M40, seal range 17 - 30 mm</p>	861 510 01
<p><b>WKE 5 - Duo 5 x 16<sup>2</sup></b> 256 x 171 x 106 mm</p> 	<p><b>Connection box:</b> 5 pole 0.5 - 16 mm<sup>2</sup>  <b>Junction box</b> 5 pole 0.5 - 16 mm<sup>2</sup>  <b>Number of conductors per pole:</b>            20 x 1.5<sup>2</sup> / 16 x 2.5<sup>2</sup> / 12 x 4<sup>2</sup> / 8 x 6<sup>2</sup> / 4 x 10<sup>2</sup> / 4 x 16<sup>2</sup>  <b>Accessories supplied:</b> Drilling template, D6 wall + ceiling attachment set            6 IP54 attachment bushes M20, seal range 8 - 13 mm            2 IP54 double fitting M40, seal range 17 - 30 mm            2 IP54 attachment bushes M40, seal range 17 - 30 mm            1 IP54 blanking plug M20, seal range 8 - 13,5 mm            1 IP54 blanking plug M40, seal range 17 - 30 mm</p>	861 610 01

### Cable gland clamping areas

		Nm
M 12 x 1,5	2 - 6,5	2
M 16 x 1,5	4 - 10	2,5
M 20 x 1,5	6 - 12	4
M 20 x 1,5	7 - 14	4
M 25 x 1,5	9 - 16	6
M 32 x 1,5	11 - 21	7
M 40 x 1,5	16 - 28	7,5



= Cable gland



= Clamping area



= Rated torque



= Cable cross-section

### Number of conductors that can be clamped for each pole

	Terminal 6 <sup>2</sup> Tightening torque 0.8 Nm			Terminal 10 <sup>2</sup> Tightening torque 1.2 Nm			Terminal 16 <sup>2</sup> Tightening torque 2.0 Nm		
									
0,5 <sup>2</sup>	16	8	4						
0,75 <sup>2</sup>	8	4	2						
1,0 <sup>2</sup>	12	6	3	20	10	5			
1,5 <sup>2</sup>	12	6	3	16	8	4	20	10	5
2,5 <sup>2</sup>	4	2	1	12	6	3	16	8	4
4 <sup>2</sup>	4	2	1	8	4	2	12	6	3
6 <sup>2</sup>	4	2	1	4	2	1	8	4	2
10 <sup>2</sup>				4	2	1	4	2	1
16 <sup>2</sup>							4	2	1

 = Single terminal, 2 clamping units

 = Clamping unit

 = Double terminal, 4 clamping units

E30-  
E90

#### Electrical functional integrity

acc. to DIN 4102 Part 12

- E stands for functional integrity
- 30-90 stands for the duration in minutes

FE180

#### Insulation integrity

According to VDE 0472-814 IEC 60331

- FE stands for the impact of flames or fire
- 180 for the time in minutes

F400

#### Functional life

acc. to EN 12101-3

- 120 minutes of operation at 400°C



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