



**safe.inspiring.green.**

**Electrical functional integrity**  
Connecting | Junction | Distributing

In future, Spelsberg will unite its first-class solutions for electrical functional integrity under a new brand: LIFELINE stands for the intelligent integration of innovative product designs with high quality heat and fire resistant materials and components. Consequently, it is ensured that in case of fire all the relevant safety systems continue to work without interruption even under the toughest conditions.



**More fire protection.  
More safety. More trust.**

LIFELINE is the technology for life. With the knowledge and experience of our competent staff, we take responsibility every day to make the world a little safer. The smart fire safety solutions of LIFELINE offer first-class quality, which can be relied upon in emergencies. LIFELINE protects all life and assets without compromises and guarantees the best form of sustained fire safety.



**High technical performance.**

Only reliable products can ensure the electrical functional integrity and protect life in case of a fire. LIFELINE guarantees the function of life-saving electrical systems in buildings and tunnels, such as emergency lighting and smoke extraction systems in escape and rescue routes. As a leading manufacturer of high quality junction and connection boxes and robust surface-mounted small distribution boards, Spelsberg has always been strongly positioned with the LIFELINE brand for the development of fire protection solutions, particularly in these product segments.



**Electrical function integrity  
E30 to E90**

The junction boxes as well as the WKE-AK small distributors of LIFELINE provide electrical functional integrity between 30 and 90 minutes in the event of a fire. In doing so, the classes E30 to E90 identify the minimum duration for the functional integrity of the electrical systems.

LIFELINE ensures that the function of fire alarm systems, acoustic systems, emergency lighting or elevators with evacuation function is maintained for at least 30 minutes during an emergency. And in the case of pressure boosting systems for the extinguishing water supply, smoke and heat exhaust ventilation systems or for fire brigade lifts for at least 90 minutes. Guaranteed.



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# E30

Ensuring the functional integrity for at least **30 minutes**, e.g., for:

- Fire alarm systems
- Acoustic systems
- Emergency lighting
- Elevators with evacuation function for warning, escape and/or rescue

# E90

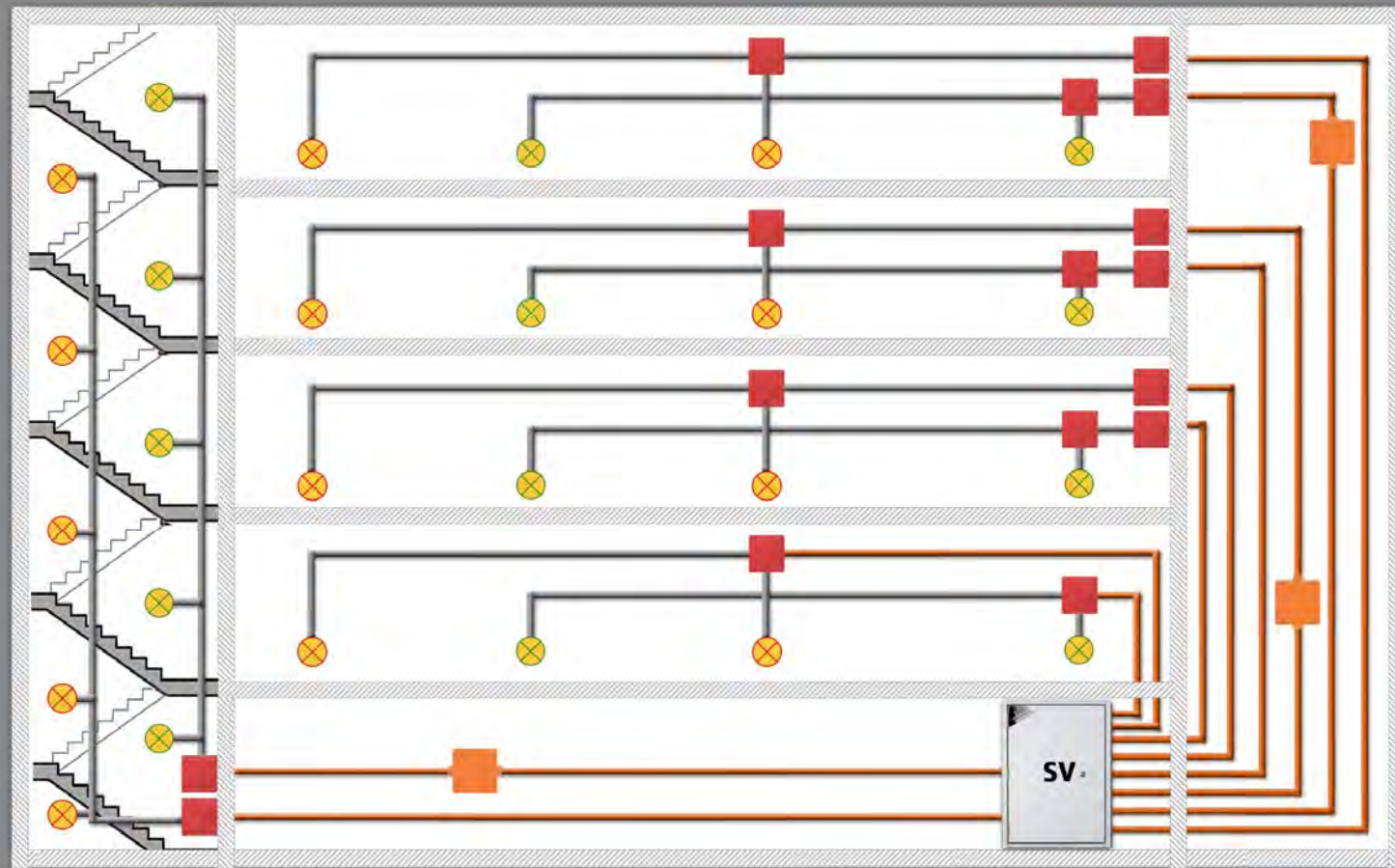
Ensuring the functional integrity for at least **90 minutes**, e.g., for:

- Pressure boosting systems for supply of extinguishing water
- Smoke and heat extraction systems
- Fire brigade lifts for extinguishing and/or rescue

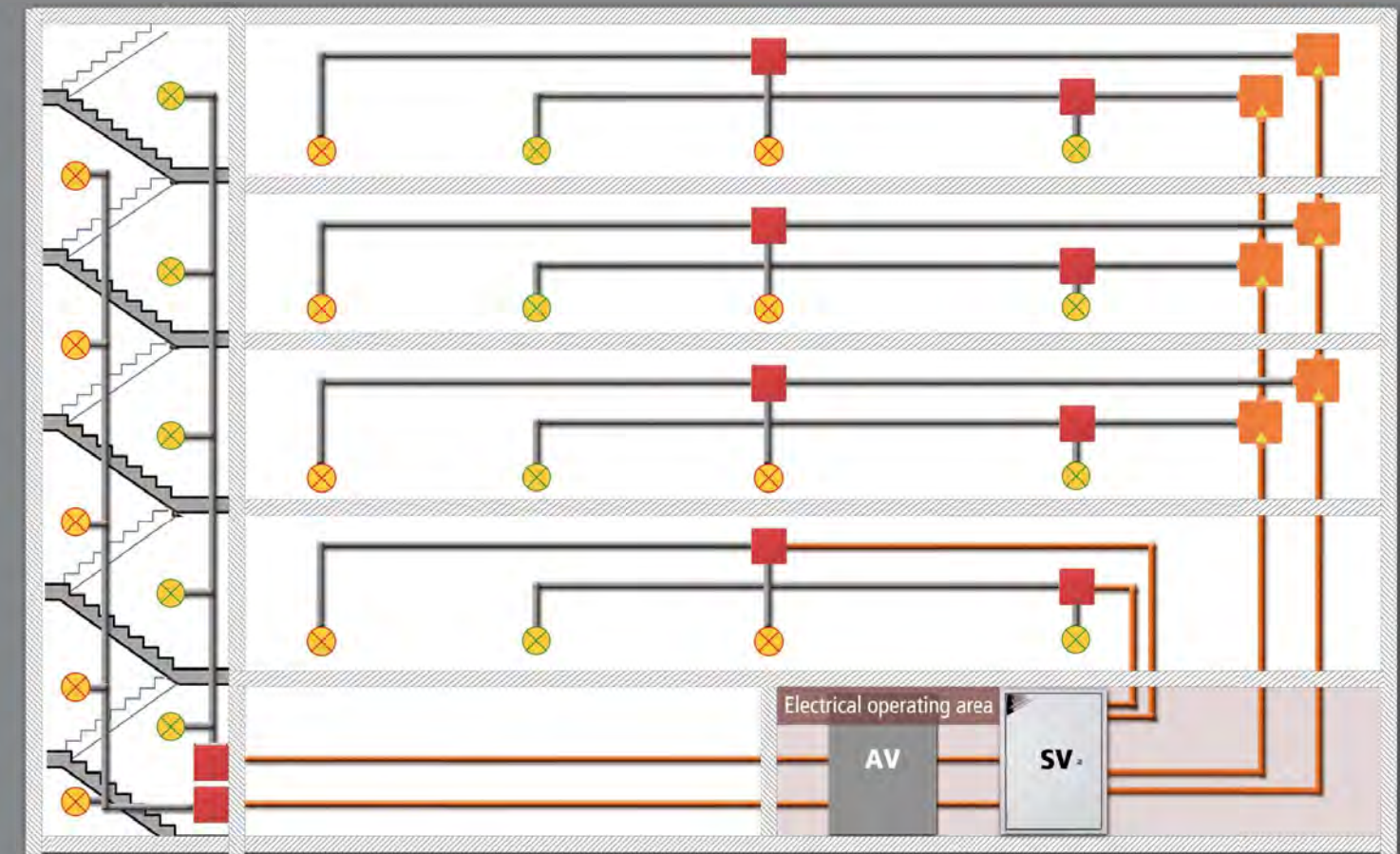
The classes **E30** to **E90** identify the minimum duration for the functional integrity of electrical systems.

		Functional integrity		
		E30	E60	E90
Properties	IP66, 6 bar IK08		WKE 2-6	
	IP66 IK08	WKE 200-400		
	IP66, IP67 IK07		WKE 54	
	IP66, IP67 IK09		Rapid-Box	

		Functional integrity		
		E30	E60	E90
Connection cross-section in mm²	0,5² - 16²		WKE 2-6	
	1,5² - 35²	WKE 200-400		
	1,5² - 16²		WKE 54	
	2,5² - 50²		Rapid-Box	



AV: General power supply      SV: Safety current supply

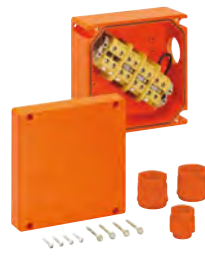


AV: General power supply      SV: Safety current supply



WKE 2-6  
(without fuse)

**NEW!**



WKE 200-400 RK  
(without fuse)



WKE AK



WKE 4-6  
(with fuse)

**NEW!**



WKE 200-400  
(with fuse)

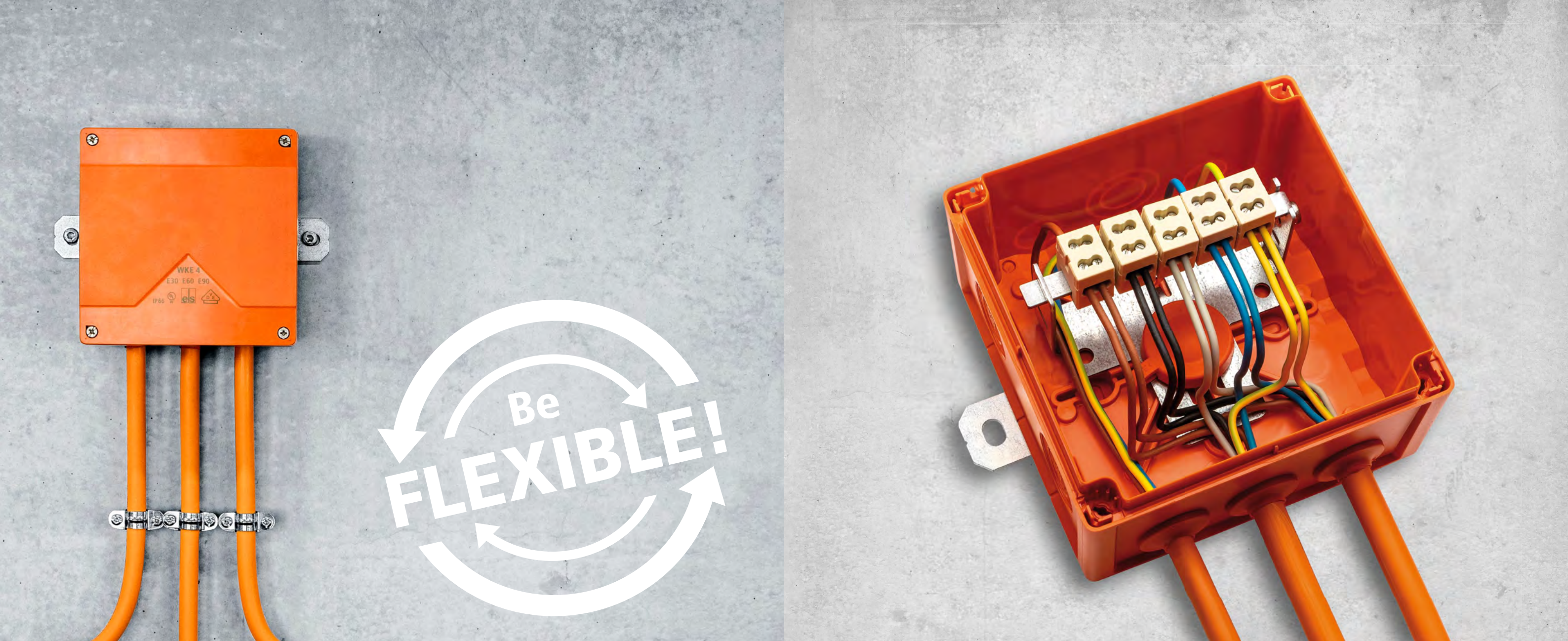


WKE 54



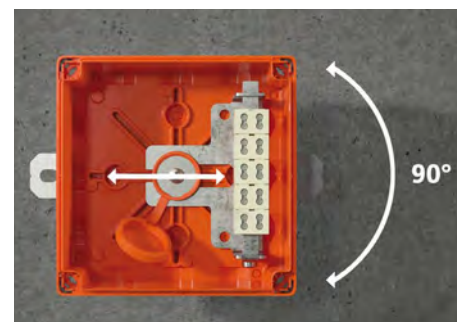
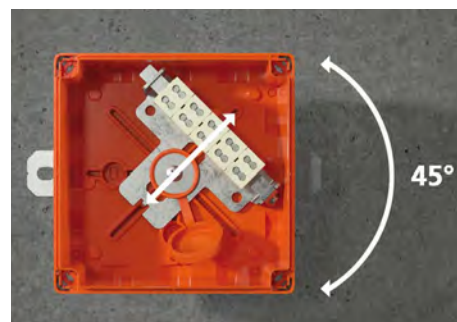
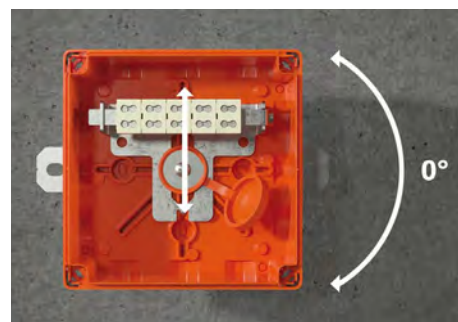
WKE AK





#### Planning freedom saves time and cost for you

- Clear and variable positioning of the base carrier through simple rotation in steps of 45°
- Step-less positioning of the longitudinal axis



#### An easy, quick and safe installation

- Central fixing through just one screw
- Accessible at any time
- All cable entries can be used with terminal in high position

##### Position above:

- easy handling of the wires
- Possible to mount the cables by adhering to the bending radius
- All cable entries can be used without restrictions



##### Position below:

- ideal for special solutions
- Use of D0 fuses (for WKE 6)







#### Extremely robust

- High protection class IP 66
- Impact strength IK08
- Ideal for special solutions e.g., in tunnels  
IP 66 6 bar according to RVS 09.02.41
- External fixing lugs and cover screws  
optionally in stainless steel V4A
- High strength of the box

**WKE 2-6** | Extremely robust for your safety.

**NEW!**



#### Planning freedom while selecting the cable

- The new WKE offers the highest range of tested cables for selection  
for example from  
Dätwyler Cables GmbH,  
LEONI AG and  
Kabelwerk Eupen AG

Prüfzeugnis Nummer	P-1032 DMT DO
Antragsteller	Günther Spelsberg GmbH + Co. KG Im Gewerbepark 1 58579 Schalksmühle Deutschland
Gegenstand	Bauarten zur Herstellung von elektrischen Kabelanlagen, an die Anforderungen hinsichtlich des Funktionserhalts unter Brandeinwirkung gestellt werden der Funktionserhaltsklasse „E30“, „E60“ und „E90“ nach DIN 4102-12:1998-11 gemäß VV TB NRW Ausgabe Juni 2019 lfd. Nr. C 4.9, mit der/den Produktbezeichnung(en): <b>Abzweigdosen „WKE“ der Günther Spelsberg GmbH + Co. KG zur Verwendung in Kabelanlagen mit integriertem Funktionserhalt</b>
Ausstellungsdatum	12.09.2019
Geltungsdauer bis	12.09.2023

Aufgrund dieses allgemeinen bauaufsichtlichen Prüfzeugnisses ist der oben genannte Gegenstand im Sinne der Landesbauordnung des jeweiligen Bundeslandes anwendbar.  
Dieses allgemeine bauaufsichtliche Prüfzeugnis umfasst 43 Seiten inklusive Deckblatt und Anlagen. Jede Seite dieses allgemeinen bauaufsichtlichen Prüfzeugnisses ist mit dem Stempel der DMT GmbH & Co. KG, Dortmund versehen. Dokumente ohne Unterschrift und Stempel haben keine Gültigkeit.





**Cover retaining strap**  
+ can be used optionally by the installer



**Knockouts with multiple options**  
+ optimised positioning of the knockouts  
- adjusted to the fixing systems  
- Locking of counter nuts  
+ patented knockouts  
- integrated knockout points  
- easy and clean knocking-out centre markings on the boxes and external fixing lugs



**External fixing lugs**  
+ pre-mounted for a fast installation  
+ can be rotated by 90°  
+ ensures correct mounting



**Extensive international certifications**

**ABP** DIN 4102-12  
Functional integrity E30 / E60 / E90

**DVE** EN 60670  
Tapping and connection boxes

**UL EU** IEC 62208 & IEC 61439  
Empty housing & switching device combinations



**Labelling fields**  
+ Areas for an individual labelling



**Sealing opening**  
+ Possible to seal the lid without any further accessories



**External drainage membrane**  
+ optional knocking-out, even after the installation



Further relevant information on the topic of functional integrity is available at:

[www.spelsberg.com/WKE](http://www.spelsberg.com/WKE)







Please find more information about the scope of delivery at [www.spelsberg.com](http://www.spelsberg.com)

Functional integrity E30-E90 according to DIN 4102 Part 12 with ceramic terminals 0.5 to 16 mm²

- The right solution for each cross-section and application
- Installation material such as screw anchors and double diaphragm membranes included
- Quick mounting through external fixing
- Completely pre-assembled
- Ideal for building technology
- General construction-supervisory test certificate (AbP)
- VDE certified
- UL-EU certified



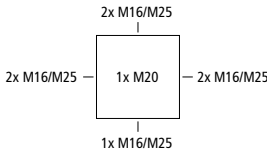
## WKE 2-6 | FOR CONNECTING + JUNCTION

### WKE 2 - 5 x 1,5²

100 x 100 x 70 mm



Cable distribution and junction box with IP66, certified to EN 60670 and IEC 62208, with electrical circuit integrity E30 - E90 according to DIN 4102 part 12. Halogen-free housing made of special thermoplastic, clamps of high-temperature-resistant special ceramic, quick assembly with external fastening lugs, variable terminal positioning



#### Description

##### WKE 2 - 5 x 1,5²

Junction box, 5-pole, 0.5 - 2.5 mm², distribution box, 5-pole, 0.5 - 1.5 mm², number of clampable conductors per pole: 8 x 0.5² / 4 x 0.75² / 6 x 1² / 6 x 1.5² / 2 x 2.5²

#### Order no.

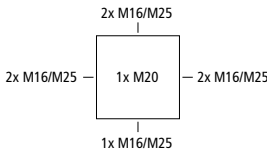
86650201

### WKE 2 - 3 x 4²

100 x 100 x 70 mm



Cable distribution and junction box with IP66, certified to EN 60670 and IEC 62208, with electrical circuit integrity E30 - E90 according to DIN 4102 part 12. Halogen-free housing made of special thermoplastic, clamps of high-temperature-resistant special ceramic, quick assembly with external fastening lugs, variable terminal positioning



#### Description

##### WKE 2 - 3 x 4²

Junction box, 3-pole, 1 - 6 mm², distribution box, 3-pole, 1 - 4 mm², number of clampable conductors per pole: 10 x 1² / 8 x 1.5² / 6 x 2.5² / 4 x 4² / 2 x 6² / 2 x 10²

#### Order no.

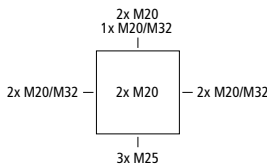
86651201

### WKE 4 - 5 x 4²

150 x 150 x 85 mm



Cable distribution and junction box with IP66, certified to EN 60670 and IEC 62208, with electrical circuit integrity E30 - E90 according to DIN 4102 part 12. Halogen-free housing made of special thermoplastic, clamps of high-temperature-resistant special ceramic, quick assembly with external fastening lugs, variable terminal positioning



#### Description

##### WKE 4 - 5 x 4²

Junction box, 5-pole, 1 - 10 mm², distribution box, 5-pole, 1 - 4 mm², number of clampable conductors per pole: 10 x 1² / 8 x 1.5² / 6 x 2.5² / 4 x 4² / 2 x 6² / 2 x 10²

#### Order no.

86650401

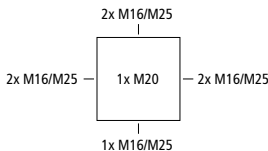


WKE 2 - Duo 3 x 4<sup>2</sup>

100 x 100 x 70 mm



Cable distribution and junction box with IP66, certified to EN 60670 and IEC 62208, with electrical circuit integrity E30 - E90 according to DIN 4102 part 12. Halogen-free housing made of special thermoplastic, clamps of high-temperature-resistant special ceramic, quick assembly with external fastening lugs, variable terminal positioning



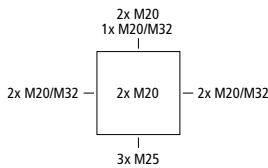
Description	Order no.
<b>WKE 2 - Duo 3 x 4<sup>2</sup></b> Junction box, 3-pole, 0.5 - 4 mm <sup>2</sup> , distribution box, 3-pole, 0.5 - 4 mm <sup>2</sup> , number of clampable conductors per pole: 16 x 0.5 <sup>2</sup> / 8 x 0.75 <sup>2</sup> / 12 x 1 <sup>2</sup> / 12 x 1.5 <sup>2</sup> / 4 x 2.5 <sup>2</sup> / 4 x 4 <sup>2</sup>	86740001

WKE 4 - Duo 5/3 x 6<sup>2</sup>

150 x 150 x 85 mm



Cable distribution and junction box with IP66, certified to EN 60670 and IEC 62208, with electrical circuit integrity E30 - E90 according to DIN 4102 part 12. Halogen-free housing made of special thermoplastic, clamps of high-temperature-resistant special ceramic, quick assembly with external fastening lugs, variable terminal positioning



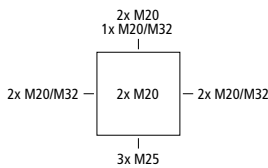
Description	Order no.
<b>WKE 4 - Duo 5/3 x 6<sup>2</sup></b> Junction box, 5-pole, 0.5 - 6 mm <sup>2</sup> , distribution box 3-pole 0.5 - 6 mm <sup>2</sup> , number of clampable conductors per pole: 16 x 0.5 <sup>2</sup> / 8 x 0.75 <sup>2</sup> / 12 x 1 <sup>2</sup> / 12 x 1.5 <sup>2</sup> / 4 x 2.5 <sup>2</sup> / 4 x 4 <sup>2</sup> / 4 x 6 <sup>2</sup> , in 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 <sup>2</sup> / 2 x 6 <sup>2</sup>	86771001

WKE 4 - Duo 5 x 6<sup>2</sup>

150 x 150 x 85 mm



Cable distribution and junction box with IP66, certified to EN 60670 and IEC 62208, with electrical circuit integrity E30 - E90 according to DIN 4102 part 12. Halogen-free housing made of special thermoplastic, clamps of high-temperature-resistant special ceramic, quick assembly with external fastening lugs, variable terminal positioning



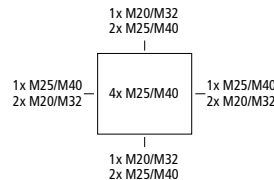
Description	Order no.
<b>WKE 4 - Duo 5 x 6<sup>2</sup></b> Junction box, 5-pole, 0.5 - 6 mm <sup>2</sup> , distribution box, 5-pole, 0.5 - 6 mm <sup>2</sup> , number of clampable conductors per pole: 16 x 0.5 <sup>2</sup> / 8 x 0.75 <sup>2</sup> / 12 x 1 <sup>2</sup> / 12 x 1.5 <sup>2</sup> / 4 x 2.5 <sup>2</sup> / 4 x 4 <sup>2</sup> / 4 x 6 <sup>2</sup>	86741001

WKE 6 - Duo 7 x 6<sup>2</sup>

250 x 200 x 120 mm



Cable distribution and junction box with IP66, certified to EN 60670 and IEC 62208, with electrical circuit integrity E30 - E90 according to DIN 4102 part 12. Halogen-free housing made of special thermoplastic, clamps of high-temperature-resistant special ceramic, quick assembly with external fastening lugs, variable terminal positioning



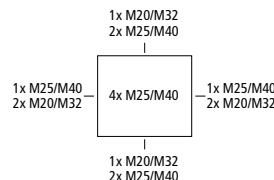
Description	Order no.
<b>WKE 6 - Duo 7 x 6<sup>2</sup></b> Junction box ,7-pole, 0.5 - 6 mm <sup>2</sup> , distribution box 7-pole 0.5 - 6 mm <sup>2</sup> , number of clampable conductors per pole: 16 x 0.5 <sup>2</sup> / 8 x 0.75 <sup>2</sup> / 12 x 1 <sup>2</sup> / 12 x 1.5 <sup>2</sup> / 4 x 2.5 <sup>2</sup> / 4 x 4 <sup>2</sup> / 4 x 6 <sup>2</sup>	86742001

WKE 6 - 5 x 6<sup>2</sup>

250 x 200 x 120 mm



Cable distribution and junction box with IP66, certified to EN 60670 and IEC 62208, with electrical circuit integrity E30 - E90 according to DIN 4102 part 12. Halogen-free housing made of special thermoplastic, clamps of high-temperature-resistant special ceramic, quick assembly with external fastening lugs, variable terminal positioning



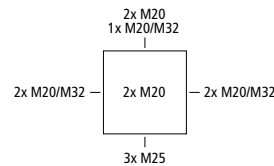
Description	Order no.
<b>WKE 6 - 5 x 6<sup>2</sup></b> Junction box, 5-pole, 1.5 - 16 mm <sup>2</sup> , distribution box, 5-pole, 1 - 6 mm <sup>2</sup> , number of clampable conductors per pole: 10 x 1.5 <sup>2</sup> / 8 x 2.5 <sup>2</sup> / 4 x 4 <sup>2</sup> / 4 x 6 <sup>2</sup> / 2 x 10 <sup>2</sup> / 2 x 16 <sup>2</sup>	86650601

WKE 4 - Duo 3 x 10<sup>2</sup>

150 x 150 x 85 mm



Cable distribution and junction box with IP66, certified to EN 60670 and IEC 62208, with electrical circuit integrity E30 - E90 according to DIN 4102 part 12. Halogen-free housing made of special thermoplastic, clamps of high-temperature-resistant special ceramic, quick assembly with external fastening lugs, variable terminal positioning



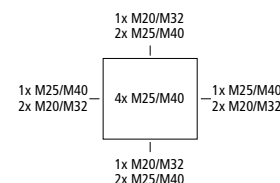
Description	Order no.
<b>WKE 4 - Duo 3 x 10<sup>2</sup></b> Junction box, 3-pole, 1 - 10 mm <sup>2</sup> , distribution box, 3-pole, 1 - 10 mm <sup>2</sup> , number of clampable conductors per pole: 20 x 1 <sup>2</sup> / 16 x 1.5 <sup>2</sup> / 12 x 2.5 <sup>2</sup> / 8 x 4 <sup>2</sup> / 4 x 6 <sup>2</sup> / 4 x 10 <sup>2</sup>	86750001



## WKE 6 - Duo 5 x 10<sup>2</sup> 250 x 200 x 120 mm



Cable distribution and junction box with IP66, certified to EN 60670 and IEC 62208, with electrical circuit integrity E30 - E90 according to DIN 4102 part 12. Halogen-free housing made of special thermoplastic, clamps of high-temperature-resistant special ceramic, quick assembly with external fastening lugs, variable terminal positioning

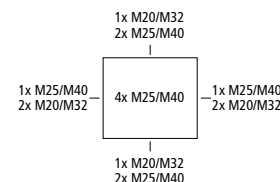


Description	Order no.
<b>WKE 6 - Duo 5 x 10<sup>2</sup></b> Junction box, 5-pole, 1 - 10 mm <sup>2</sup> , distribution box, 5-pole, 1 - 10 mm <sup>2</sup> , number of clampable conductors per pole: 20 x 1 <sup>2</sup> / 16 x 1,5 <sup>2</sup> / 12 x 2,5 <sup>2</sup> / 8 x 4 <sup>2</sup> / 4 x 6 <sup>2</sup> / 2 x 10 <sup>2</sup>	86751001

## WKE 6 - Duo 3 x 16<sup>2</sup> 250 x 200 x 120 mm



Cable distribution and junction box with IP66, certified to EN 60670 and IEC 62208, with electrical circuit integrity E30 - E90 according to DIN 4102 part 12. Halogen-free housing made of special thermoplastic, clamps of high-temperature-resistant special ceramic, quick assembly with external fastening lugs, variable terminal positioning

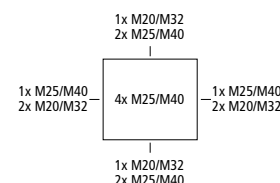


Description	Order no.
<b>WKE 6 - Duo 3 x 16<sup>2</sup></b> Junction box, 3-pole, 1.5 - 16 mm <sup>2</sup> , distribution box, 3-pole, 1.5 - 16 mm <sup>2</sup> , number of clampable conductors per pole: 20 x 1.5 <sup>2</sup> / 16 x 2.5 <sup>2</sup> / 12 x 4 <sup>2</sup> / 8 x 6 <sup>2</sup> / 4 x 10 <sup>2</sup> / 4 x 16 <sup>2</sup>	86760001

## WKE 6 - Duo 5 x 16<sup>2</sup> 250 x 200 x 120 mm



Cable distribution and junction box with IP66, certified to EN 60670 and IEC 62208, with electrical circuit integrity E30 - E90 according to DIN 4102 part 12. Halogen-free housing made of special thermoplastic, clamps of high-temperature-resistant special ceramic, quick assembly with external fastening lugs, variable terminal positioning



Description	Order no.
<b>WKE 6 - Duo 5 x 16<sup>2</sup></b> Junction box, 5-pole, 1.5 - 16 mm <sup>2</sup> , distribution box, 5-pole, 1.5 - 16 mm <sup>2</sup> , number of clampable conductors per pole: 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>	86761001

Please find more information about the scope of delivery at [www.spelsberg.com](http://www.spelsberg.com)



Functional integrity E30 according to DIN 4102 Part 12 with duroplast terminals 0.5 to 35 mm<sup>2</sup>

- Terminal area up to 35<sup>2</sup>
- Extremely durable
- Ideal for time and material-saving planning in building technology
- State-certified by MPA NRW
- Latest test certificate available on the Internet at [www.spelsberg.com](http://www.spelsberg.com)

- Extensive accessories, such as fixing screws and fittings enclosed in all junction boxes
- connection and tapping till the rated cross-section without restrictions

We can offer you a large number of special variants upon request.



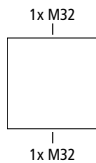


WKE 202 RK

115 x 115 x 93 mm



Cable junction and connection box with IP66 certified acc. EN 60670, with electrical functional integrity E30 acc. to DIN 4102-12, enclosure and terminal strips made from halogen-free special duroplastic



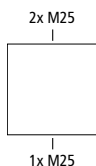
Description	Order no.
<b>WKE 202 RK</b> Junction box 5-pole, termination capability per pole 2 x 0.5 - 6 mm²	86220201

WKE 203 RK

115 x 115 x 93 mm



Cable junction and connection box with IP66 certified acc. EN 60670, with electrical functional integrity E30 acc. to DIN 4102-12, enclosure and terminal strips made from halogen-free special duroplastic



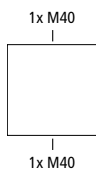
Description	Order no.
<b>WKE 203 RK</b> Junction box 3-pole, termination capability for each pole 4 x 0.5 - 4 mm²	86220301

WKE 302 RK

160 x 160 x 110 mm



Cable junction and connection box with IP66 certified acc. EN 60670, with electrical functional integrity E30 acc. to DIN 4102-12, enclosure and terminal strips made from halogen-free special duroplastic



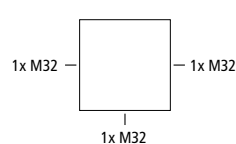
Description	Order no.
<b>WKE 302 RK</b> Junction box 5-pole, termination capability for each pole 4 x 4 - 16 mm²	86230201

WKE 303 RK

160 x 160 x 110 mm



Cable junction and connection box with IP66 certified acc. EN 60670, with electrical functional integrity E30 acc. to DIN 4102-12, enclosure and terminal strips made from halogen-free special duroplastic



Description	Order no.
<b>WKE 303 RK</b> Junction box 5-pole, termination capability for each pole 4 x 2.5 - 10 mm²	86230301

WKE 402 RK

200 x 200 x 110 mm



Cable junction and connection box with IP66 certified acc. EN 60670, with electrical functional integrity E30 acc. to DIN 4102-12, enclosure and terminal strips made from halogen-free special duroplastic



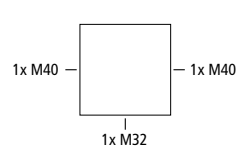
Description	Order no.
<b>WKE 402 RK</b> Junction box 5-pole, termination capability for each pole 2 x 2.5 - 35 mm²	86240201

WKE 403 RK

200 x 200 x 110 mm



Cable junction and connection box with IP66 certified acc. EN 60670, with electrical functional integrity E30 acc. to DIN 4102-12, enclosure and terminal strips made from halogen-free special duroplastic



Description	Order no.
<b>WKE 403 RK</b> Junction box 5-pole, termination capability for each pole 4 x 4 - 16 mm²	86240301

WKE naming scheme (example)

Name	Connecting	Junction
WKE 202 RK	TypeTerminal block	WKE 203 RK
		for secured Junction WKE 204 RK





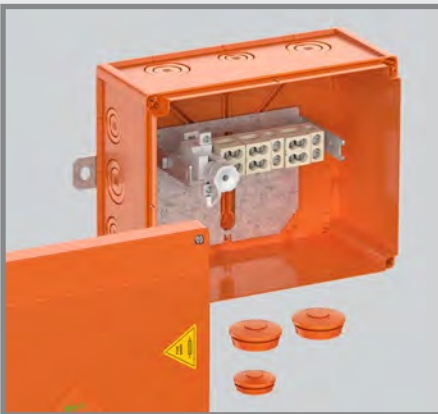
Exchangeable fuses



Exchangeable fuses



Exchangeable fuses



## WKE 4-6



The new WKE 4 to 6 branch and junction boxes with fuses offer functional integrity for the main supply line by enabling safe and secure branches for every floor or every fire compartment. In case of faults, only the affected branch is disconnected safely from the main line. The main line remains intact so that, for instance, the lighting of the escape routes continues to function. This method enables a completely new type of installation, because there is no need to



## WKE 200-400



supply power to individual sections in star-shape, but instead can junction off comfortably from the main strand without impairing the functional integrity. The cables saved in this way reduce cost and installation time while setting up the system. Double clamps made of high temperature ceramic material for cable cross-sections up to 16 mm² provide for additional safety and ensure the functional integrity up to E 90.



## WKE 54



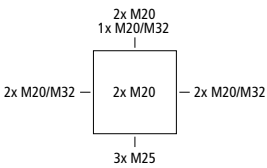
Similarly, the junction and connection boxes WKE 200-400 with fuses are also the new members in the WKE product family. They also help in disconnecting individual sections or floors from the main strand - but enable the wiring of cross-sections up to 35 mm.

Please find more information about the scope of delivery at [www.spelsberg.com](http://www.spelsberg.com)

## WKE 4 - 3/3 x 6² 1SB 150 x 150 x 85 mm



Cable distribution and junction box with IP66, certified to EN 61439 and IEC 62208, with electrical circuit integrity E30 - E90 according to DIN 4102 part 12. Halogen-free housing made of special thermoplastic, clamps of high-temperature-resistant special ceramic, quick assembly with external fastening lugs, variable terminal positioning

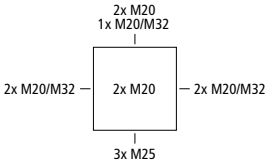


Description	Order no.
<b>WKE 4 - 3/3 x 6² 1SB</b> Transit box, 3-pole, 0.5 - 6 mm², distribution box, 3-pole, 0.5 - 6 mm², fuse in the distribution box 1 x 2A (inner lying, 1 x WKE BS F2A, 86300101), number of clampable conductors per clamping point: 4 x 0.5² / 2 x 0.75² / 3 x 1² / 3 x 1.5² / 1 x 2.5² / 1 x 4² / 1 x 6²	86911101

## WKE 4 - 5/3 x 6² 1SB 150 x 150 x 85 mm



Cable distribution and junction box with IP66, certified to EN 61439 and IEC 62208, with electrical circuit integrity E30 - E90 according to DIN 4102 part 12. Halogen-free housing made of special thermoplastic, clamps of high-temperature-resistant special ceramic, quick assembly with external fastening lugs, variable terminal positioning

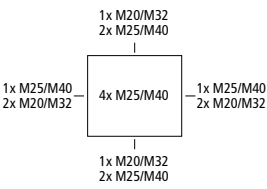


Description	Order no.
<b>WKE 4 - 5/3 x 6² 1SB</b> Transit box, 5-pole, 0.5 - 6 mm², distribution box, 3-pole, 0.5 - 6 mm², fuse in the distribution box 1 x 2A (inner lying, 1 x WKE BS F2A, 86300101), number of clampable conductors per clamping point: 4 x 0.5² / 2 x 0.75² / 3 x 1² / 3 x 1.5² / 1 x 2.5² / 1 x 4² / 1 x 6²	86912101

## WKE 6 - 5/3x10² 1D0 250 x 200 x 120 mm



Cable distribution and junction box with IP66, certified to EN 61439 and IEC 62208, with electrical circuit integrity E30 - E90 according to DIN 4102 part 12. Halogen-free housing made of special thermoplastic, clamps of high-temperature-resistant special ceramic, quick assembly with external fastening lugs, variable terminal positioning




Description	Order no.
<b>WKE 6 - 5/3x10² 1D0</b> Transit box, 5-pole, 0.5 - 6 mm², distribution box, 3-pole, 0.5 - 6 mm², fuse in the distribution box 1 x 2A (inner lying, 1 x WKE BS F2A, 86300101), number of clampable conductors per clamping point: 4 x 0.5² / 2 x 0.75² / 3 x 1² / 3 x 1.5² / 1 x 2.5² / 1 x 4² / 1 x 6²	86922120



WKE 6 - 5/3x16<sup>2</sup> 1D0

250 x 200 x 120 mm



IP66

E30-E90

IK08

16²

Cable distribution and junction box with IP66, certified to EN 61439 and IEC 62208, with electrical circuit integrity E30 - E90 according to DIN 4102 part 12. Halogen-free housing made of special thermoplastic, clamps of high-temperature-resistant special ceramic, quick assembly with external fastening lugs, variable terminal positioning

1x M20/M32

2x M25/M40

1x M25/M40

2x M20/M32

4x M25/M40

1x M20/M32

2x M25/M40

Description	Order no.
<b>WKE 6 - 5/3x16<sup>2</sup> 1D0</b> Transit box, 5-pole, 1.5 - 16 mm <sup>2</sup> , distribution box, 3-pole, 1.5 - 10 mm <sup>2</sup> , fuse in distribution box 1 x D01 socket (without insert), number of clampable conductors per clamping point 5 x 1.5 <sup>2</sup> / 4 x 2.5 <sup>2</sup> / 2 x 4 <sup>2</sup> / 2 x 6 <sup>2</sup> / 1 x 10 <sup>2</sup> / 1 x 16 <sup>2</sup>	86932120

## Safe solution for U55

The underground line 55 of Berlin runs on the section between Brandenburg Gate and the main station. 365 days in a year, round the clock. The transport companies of Berlin (BVG) have very strict safety conditions for electrical engineering in the tunnels. They must ensure the functionality of the facilities vital for life even in case of fire.

The fire protection boxes of Spelsberg with integrated fuses protect the electrical cable systems in this harsh environment. In case of fire, they ensure that the lighting and the evacuation facilities continue to function for at least 30 minutes.


The special solutions of the types WKE 300 and WKE 400 in protection class II and protection type IP66, developed especially for the Berlin transport companies, are made of a extremely durable halogen-free, self-extinguishing duroplast. A safe solution, wherever fire protection, high impact resistance and reliable sealing against dust and water are important.



Bild: Michael F. Mehnert (CC-BY-SA 3.0)

WKE 300 8 x 6<sup>2</sup> 2FS

160 x 160 x 110 mm



IP66

E30

IK08

6²

Cable junction and connection boxes with IP66 certified as per EN 61439-2, with electrical functional integrity E30 according to DIN 4102 Part 12 in the duct, enclosure and terminal strips made from halogen-free special duroplastic


2x M25

1x M25

Description	Order no.
<b>WKE 300 8 x 6<sup>2</sup> 2FS</b> Junction box with fused branch, Connection box 3-pole, Junction box 3-pole, Number of conductors per pole 4 x 1.5 - 6mm <sup>2</sup> , Capacity per clamping point 1 x 1.5 - 6mm <sup>2</sup> , Fuse holder (20 x 5mm) max. 6.3A	86226201

WKE 400 7 x 10<sup>2</sup> 1D0

200 x 200 x 110 mm



IP66

E30

IK08

10²

Cable junction and connection boxes with IP66 certified as per EN 61439-2, with electrical functional integrity E30 according to DIN 4102 Part 12 in the duct, enclosure and terminal strips made from halogen-free special duroplastic


2x M32

1x M25

Description	Order no.
<b>WKE 400 7 x 10<sup>2</sup> 1D0</b> Junction box with fused branch, Connection box 3-pole, Junction box 3-pole, Number of conductors per pole 4 x 1.5 - 10mm <sup>2</sup> , Capacity per clamping point 1 x 1.5 - 10mm <sup>2</sup> , D02 fuse holder max. 6A	86235501

WKE 400 7 x 10<sup>2</sup> 2D0

200 x 200 x 110 mm



IP66

E30

IK08

10²

Cable junction and connection boxes with IP66 certified as per EN 61439-2, with electrical functional integrity E30 according to DIN 4102 Part 12 in the duct, enclosure and terminal strips made from halogen-free special duroplastic

2x M32

1x M25

Description	Order no.
<b>WKE 400 7 x 10<sup>2</sup> 2D0</b> Junction box with fused branch, Connection box 3-pole, Junction box 3-pole, Number of conductors per pole 4 x 1.5 - 10mm <sup>2</sup> , Capacity per clamping point 1 x 1.5 - 10mm <sup>2</sup> , D02 fuse holder max. 6A	86235601



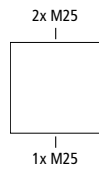
## WKE 204 RK

115 x 115 x 93 mm



IP66 E30 IK08 4<sup>2</sup> 450V AC 450V DC DVE halogen-free iQ

Cable junction and connection box with IP66 certified acc. EN 60670, with electrical functional integrity E30 acc. to DIN 4102-12, enclosure and terminal strips made from halogen-free special duroplastic



### Description

#### WKE 204 RK

Junction box with fused branch, Connection box 3-pole, Junction box 3-pole, Number of conductors per pole 4 x 0.5 - 4mm<sup>2</sup>, Capacity per clamping point 1 x 0.5 - 4mm<sup>2</sup>, Fuse holder (20 x 5mm) max. 6.3A

### Order no.

86220401

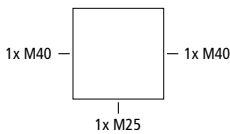
## WKE 304 RK

160 x 160 x 110 mm



IP66 E30 IK08 10<sup>2</sup> 450V AC 450V DC DVE halogen-free iQ

Cable junction and connection box with IP66 certified acc. EN 60670, with electrical functional integrity E30 acc. to DIN 4102-12, enclosure and terminal strips made from halogen-free special duroplastic



### Description

#### WKE 304 RK

Junction box with fused branch, Connection box 5-pole, Junction box 3-pole, Number of conductors per pole 4 x 1.5 - 10mm<sup>2</sup>, Capacity per clamping point 1 x 1.5 - 10mm<sup>2</sup>, Fuse holder (20 x 5mm) max. 6.3A

### Order no.

86230401

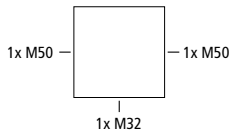
## WKE 404 RK

200 x 200 x 110 mm



IP66 E30 IK08 35<sup>2</sup> 450V AC 450V DC DVE halogen-free iQ

Cable junction and connection box with IP66 certified acc. EN 60670, with electrical functional integrity E30 acc. to DIN 4102-12, enclosure and terminal strips made from halogen-free special duroplastic



### Description

#### WKE 404 RK

Junction box with fused branch, Junction box 5-pole, Number of conductors per pole 2 x 2.5 - 35mm<sup>2</sup>, Capacity per clamping point 1 x 2.5 - 35mm<sup>2</sup>, Junction box 3-pole, Number of conductors per pole 4 x 1.5 - 10mm<sup>2</sup>, Capacity per clamping point 1 x 1.5 - 10mm<sup>2</sup>, Fuse holder (20 x 5mm) max. 6.3A

### Order no.

86240401

Please find more information about the scope of delivery at [www.spelsberg.com](http://www.spelsberg.com)



- Secured tapping
- Double terminal 16<sup>2</sup>
- Ideal for tunnels and industrial areas

#### E90 functional integrity

- According to DIN 4102 Part 12
- Function of the electrical system for over 90 minutes
- Certified by MPA Dresden

#### IP67 protection class

- As per DIN EN 60670
- No penetration of dust
- Protection during temporary submersion in water
- Protection against external mechanical stresses
- IK07

#### Pressure-pull strength

- Testing according to specifications of DB-AG "Tunnel safety lighting systems for railway tunnels"



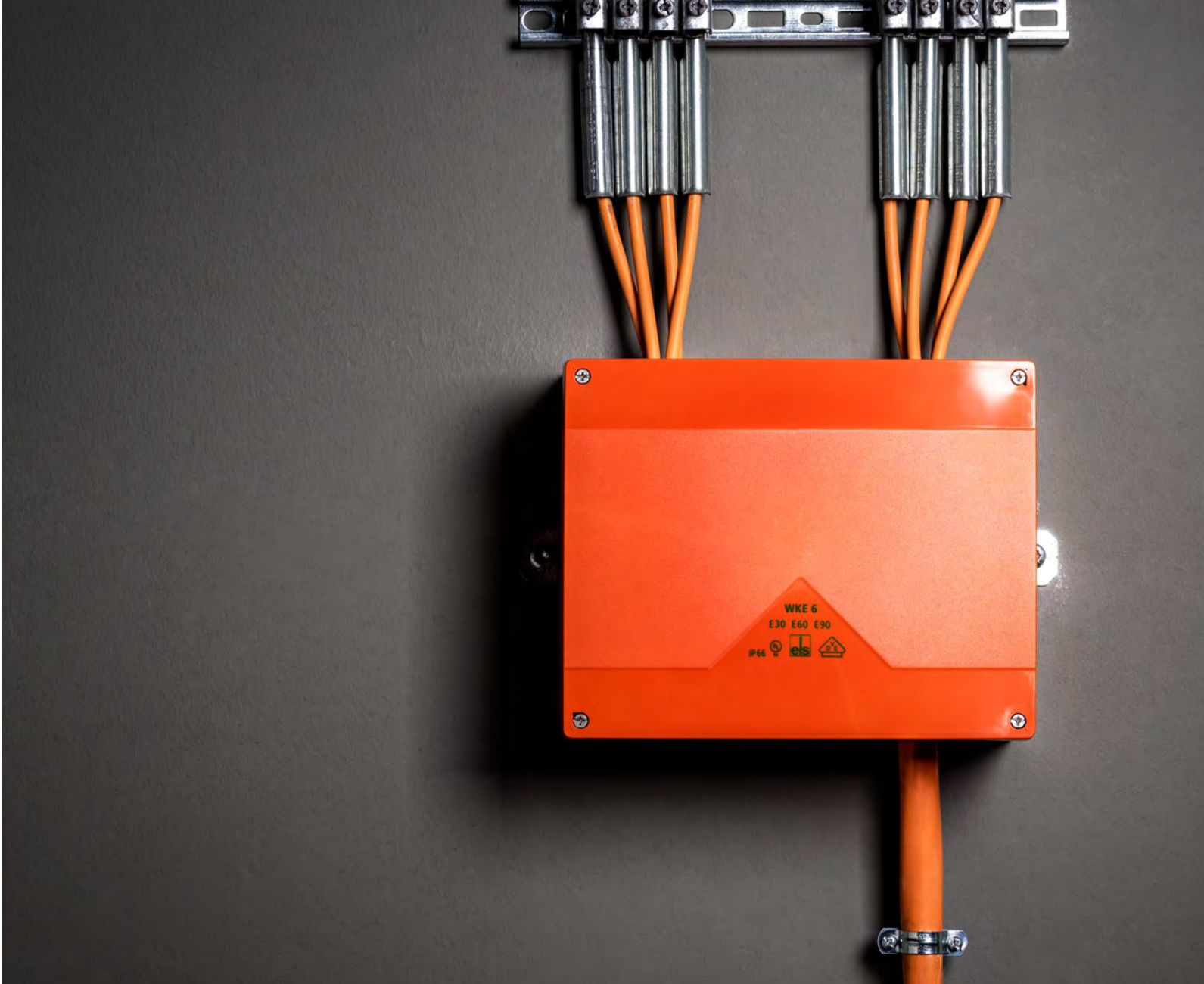




Cable junction and connection boxes with IP66/67, certified according to EN 61439-2, with electrical functional integrity E30 - E90 acc. to DIN 4102-12, halogen-free enclosure made from special duroplastic, terminals made of a high-temperature-resistant special ceramic, rapid mounting by external brackets

Description	Order no.
<b>WKE 54</b> To be used as a junction box with fused branch, Connection box 5-pole 1.5 - 16 mm², Junction box 5-pole 1.5 - 10 mm², Number of conductors per pole: 20 x 1.5² / 16 x 2.5² / 12 x 4.0² / 8 x 6² / 4 x 10² / 4 x 16², 2 fuse bases D01 max. 16 A	86025401
Recommended accessories:	Order no.
KVR M20-MGM/or, cable gland	22762001
KVR M25-MGM/or, cable gland	22762501
KVR M32-MGM/or, cable gland	22763201
KVR M40-MGM/or, cable gland	22764001

Please find more information about the scope of delivery at [www.spelsberg.com](http://www.spelsberg.com)



Functional integrity E30-E90 according to DIN 4102 Part 12 with ceramic terminals 1.5 mm²

- The right solution for each cross-section and application
  - Installation materials such as screw anchors and double diaphragm membranes included
  - Possible to mount on cable trays
  - Up to 32-pin
- Quick mounting through external fixing
  - Completely pre-assembled
  - Ideal for building technology
  - General construction-supervisory test certificate (AbP)
  - VDE certified



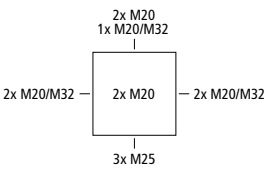


### WKE 4 - 8 x 1,5²

150 x 150 x 85 mm



Cable distribution and junction box with IP66, certified to EN 60670 and IEC 62208, with electrical circuit integrity E30 - E90 according to DIN 4102 part 12. Halogen-free housing made of special thermoplastic, clamps of high-temperature-resistant special ceramic, quick assembly with external fastening lugs, variable terminal positioning



#### Description

##### WKE 4 - 8 x 1,5²

Junction box, 8-pole, 0.5 - 2.5 mm², distribution box, 8-pole, 0.5 - 1.5 mm², number of clampable conductors per pole: 8 x 0.5² / 4 x 0.75² / 6 x 1² / 6 x 1.5² / 2 x 2.5²

#### Order no.

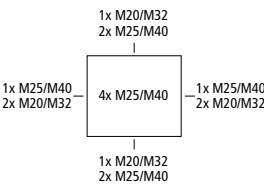
86850801

### WKE 6 - 16 x 1,5²

250 x 200 x 120 mm



Cable distribution and junction box with IP66, certified to EN 60670 and IEC 62208, with electrical circuit integrity E30 - E90 according to DIN 4102 part 12. Halogen-free housing made of special thermoplastic, clamps of high-temperature-resistant special ceramic, quick assembly with external fastening lugs, variable terminal positioning



#### Description

##### WKE 6 - 16 x 1,5²

Junction box, 16-pole, 0.5 - 2.5 mm², distribution box, 16-pole, 0.5 - 1.5 mm², number of clampable conductors per pole: 8 x 0.5² / 4 x 0.75² / 6 x 1² / 6 x 1.5² / 2 x 2.5²

#### Order no.

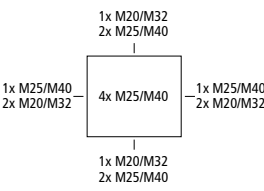
86851601

### WKE 6 - 32 x 1,5²

250 x 200 x 120 mm



Cable distribution and junction box with IP66, certified to EN 60670 and IEC 62208, with electrical circuit integrity E30 - E90 according to DIN 4102 part 12. Halogen-free housing made of special thermoplastic, clamps of high-temperature-resistant special ceramic, quick assembly with external fastening lugs, variable terminal positioning



#### Description

##### WKE 6 - 32 x 1,5²

Junction box, 32-pole, 0.5 - 2.5 mm², distribution box, 32-pole, 0.5 - 1.5 mm², number of clampable conductors per pole: 8 x 0.5² / 4 x 0.75² / 6 x 1² / 6 x 1.5² / 2 x 2.5²

#### Order no.

86853201

Please find more information about the scope of delivery at [www.spelsberg.com](http://www.spelsberg.com)



### WKE 405 LSA

200 x 200 x 110 mm



Tested system: WKE 405 - cable junction boxes with time-saving (solder, screw and stripping free) connection technology for cables with functional integrity according to DIN 4102 part 12 - tested by the MPA Dresden



#### Description

##### WKE 405 LSA

Junction box equipped with two LSA-Plus connector blocks, respectively for 10 double wires (2 x 10 DA), the LSA-Plus contacts are suitable for a solid conductor with 0.4 to 0.8 mm diameter and an outside insulation diameter of 0.7 to 1.6 mm

#### Order no.

86240501





Double membrane seals



Double membrane seals made of elastic plastic with two sealing membranes, closed, f. wall thicknesses 1.5 - 4.5 mm, thermoplastic elastomer, orange

Description	Order no.
DMS M16/or	26061601
DMS M20/or	26062001
DMS M25/or	26062501
DMS M32/or	26063201
DMS M40/or	26064001

Double membrane seals



Double membrane seals made of elastic plastic with two sealing membranes, max. four cable entries for control cables, f. wall thicknesses 1.5 - 4.5 mm, thermoplastic elastomer, orange

Description	Order no.
DMS M32/4 or	26063301
DMS M40/4 or	26064101

Cable gland



Cable gland with strain relief, polyamide, M\_ x 1.5 mm, with lock nut, orange

Description	Sealing area/mm	Thread lenght/mm	Order no.
KVR M20-MGM/or	7 - 14.0	9	22762001
KVR M25-MGM/or	9 - 16	11	22762501
KVR M32-MGM/or	11 - 21.0	11	22763201
KVR M40-MGM/or	16 - 28.0	11	22764001

WKE BS F2A spare fuses



Spare fuses for WKE 2-6 in the "SB" versions, Wired device fuses F2A in the size 5 x 20 mm coated with a glass fibre sleeve

Description	Order no.
WKE BS F2A 10 pieces per packaging unit	86300101

External fastening lugs



External fastening kit V2A

Description	Order no.
WKE 200 ABL External fastening kit V2A, for WKE 200 up to WKE 400, Material stainless steel V2A (1.4301), Set = 4 pcs.	86040001
KVS Cable gland protection set, is needed for IK 09 when cable glands are used, for WKE 200 up to WKE 400, IK09, Material stainless steel V2A (1.4301), Set = 3 pcs.	89004001

Cover screws and external fitting lugs can be delivered in V4A upon request





- VDE tested according to EN 61 439-2
- 14 -70 modular units
- Low-voltage switching device combinations according to EN 61439 that can be planned freely
- Compact size
- Can be fitted individually with type-tested equipment
- Tested according to DIN 4102 Part 2 by MPA Dresden
- Fire load insulation F90 (as per I90) for the protection of the escape and rescue route according to MLAR 2005
- Functional integrity F90 (according to E90) for the protection of electrical fittings as per MLAR 2005
- One housing for all applications



WKE AK 14-70 | FOR DISTRIBUTION

WKE AK 14 540 x 400 x 230 mm



Fire protection small-scale distributors, VDE certificated compliant with DIN EN 61 439-2, VDE tested and certified under specific operating conditions to be compliant with DIN EN 61 439-2, tested compliant with DIN 4102-2 by MPA Dresden, F90 for internal flame impingement according to DIN 4102 based on I90, F90 for external flame impingement according to DIN 4102 based on E90, can be individually equipped with type-tested operating materials

17x M20  
2x M20/M25  
1x M32/M40  
I



Description	Order no.
<b>WKE AK 14</b> Hinges left, 1-row, 14 distribution units, Ui=400V, screwless PE/N terminal rails each with 3 screwable clamping points, 2.5 - 16 mm², 14 screwless terminal points , 1.5 - 4 mm², elastic entries on top, with cable covering, masking and labelling strips, additional double-membrane seals and other accessories	86541401
<b>WKE AK 14 R</b> Hinges right, 1-row, 14 distribution units, Ui=400V, screwless PE/N terminal rails each with 3 screwable clamping points, with cable covering, 2.5 - 16 mm², 14 screwless terminal points, 1.5 - 16 mm², elastic entries on top, masking and labelling strips, additional double-membrane seals and other accessories	86551401

WKE AK 28 690 x 400 x 230 mm



Fire protection small-scale distributors, VDE certificated compliant with DIN EN 61 439-2, VDE tested and certified under specific operating conditions to be compliant with DIN EN 61 439-2, tested compliant with DIN 4102-2 by MPA Dresden, F90 for internal flame impingement according to DIN 4102 based on I90, F90 for external flame impingement according to DIN 4102 based on E90, can be individually equipped with type-tested operating materials

17x M20  
2x M20/M25  
1x M32/M40  
I



Description	Order no.
<b>WKE AK 28</b> Hinges left, 2 row, 28 distribution units, Ui=400V, 150 mm rail spacing, screwless PE/N terminal rails each with 3 screwable clamping points 1.5 - 4 mm², 21 / 2 x 14 screwless clamping points 1.5 mm² - 4 mm², elastic entries on top, with cable covering, masking and labelling strips, additional double-membrane seals and other accessories	86542801
<b>WKE AK 28 R</b> Hinges right, 2 row, 28 modules, Ui=400V, 150 mm rail spacing, masking and labelling strips, additional double-membrane seals and other accessories, screwless PE/N terminal rails each with 3 screwable clamping points 1.5 - 4 mm², 21 / 2 x 14 screwless clamping points 1.5 mm² - 4 mm², elastic entries on top, with cable covering	86552801



WKE AK 42

840 x 400 x 230 mm



Fire protection small-scale distributors, VDE certificated compliant with DIN EN 61 439-2, VDE tested and certified under specific operating conditions to be compliant with DIN EN 61 439-2, tested compliant with DIN 4102-2 by MPA Dresden, F90 for internal flame impingement according to DIN 4102 based on I90, F90 for external flame impingement according to DIN 4102 based on E90, can be individually equipped with type-tested operating materials

17x M20  
2x M20/M25  
1x M32/M40



Description	Order no.
<b>WKE AK 42</b> Hinges left, 3 row, 42 distribution units, Ui=400V, 150 mm rail spacing, screwless PE/N terminal rails each with 6 screwable clamping points, 2.5 - 16 mm², 21 / 2 x 14 screwless clamping points 1.5 mm² - 4 mm², elastic entries on top, with cable covering, masking and labelling strips, additional double-membrane seals and other accessories	86544201
<b>WKE AK 42 R</b> Hinges right, 3 row, 42 distribution units, Ui=400V, 150 mm rail spacing, with cable covering, masking and labelling strips, screwless PE/N terminal rails each with 6 screwable clamping points, 2.5 - 16 mm², 21 / 2 x 14 screwless clamping points 1.5 mm² - 4 mm², elastic entries on top, additional double-membrane seals and other accessories	86554201

WKE AK 56

990 x 400 x 230 mm



Fire protection small-scale distributors, VDE certificated compliant with DIN EN 61 439-2, VDE tested and certified under specific operating conditions to be compliant with DIN EN 61 439-2, tested compliant with DIN 4102-2 by MPA Dresden, F90 for internal flame impingement according to DIN 4102 based on I90, F90 for external flame impingement according to DIN 4102 based on E90, can be individually equipped with type-tested operating materials

17x M20  
2x M20/M25  
1x M32/M40



Description	Order no.
<b>WKE AK 56</b> Hinges left, 4 row, 56 distribution units, Ui=400V, 150 mm rail spacing, screwless PE/N terminal rails each with 6 screwable clamping points, 2.5 - 16 mm², 21 / 2 x 14 screwless clamping points 1.5 mm² - 4 mm², elastic entries on top, additional double-membrane seals and other accessories	86545601
<b>WKE AK 56 R</b> Hinges right, 4 row, 56 distribution units, Ui=400V, 150 mm rail spacing, additional double-membrane seals and other accessories, screwless PE/N terminal rails each with 3 screwable clamping points, 2.5 - 16 mm², 21 / 2 x 14 screwless clamping points 1.5 mm² - 4 mm², elastic entries on top	86555601

WKE AK 70

1140 x 400 x 230 mm



Fire protection small-scale distributors, VDE certificated compliant with DIN EN 61 439-2, VDE tested and certified under specific operating conditions to be compliant with DIN EN 61 439-2, tested compliant with DIN 4102-2 by MPA Dresden, F90 for internal flame impingement according to DIN 4102 based on I90, F90 for external flame impingement according to DIN 4102 based on E90, can be individually equipped with type-tested operating materials

17x M20  
2x M20/M25  
1x M32/M40



Description	Order no.
<b>WKE AK 70</b> Hinges left, 5 row, 70 distribution units, Ui=400V, 150 mm rail spacing, screwless PE/N terminal rails each with 6 screwable clamping points, 2.5 - 16 mm², 21 / 2 x 14 screwless clamping points 1.5 mm² - 4 mm², elastic entries on top, additional double-membrane seals and other accessories	86547001
<b>WKE AK 70 R</b> Hinges right, 5-row, 70 distribution units, Ui=400V, 150 mm rail spacing, screwless PE/N terminal rails each with 6 screwable clamping points, 2.5 - 16 mm², 21 / 2 x 14 screwless clamping points 1.5 mm² - 4 mm², elastic entries on top, additional double-membrane seals and other accessories	86557001



- Contacting of uncut conductors up to 50 mm<sup>2</sup>, also suitable for retrofit
- Maintenance-free and secured jacket clamp with rotating, spring-loaded pressure piece and reverse rotation lock
- Tapping via tension spring clamp
- Simplified mounting of cable during installation
- Cost-effective, low maintenance operation of the system
- Uninterrupted power supply through the uncut conductor

#### Properties

- 2 base versions:
- Standard according to IEC 61439-2 (VDE)
- Functional integrity E30 / E60 / E90 according to EN 1363 (MPA)
- Pre-wired on fuse
- With external fixing points
- Dimensions: 447 x 190 x 105 mm

**Basic types**  
✦ E30 to E90 (orange)



#### Clamping capacity

- ✦ Terminal in the passage 16<sup>2</sup>:  
Terminal can be loaded with a rated current of max. 63 A, clamping range for uncut conductors 2.5 mm<sup>2</sup> - 16 mm<sup>2</sup>, clamping range for cut conductors 2.5 mm<sup>2</sup> - 10 mm
- ✦ Terminal in the passage 50<sup>2</sup>:  
Terminal can be loaded with a rated current of max. 100 A, clamping range for uncut conductors 10 mm<sup>2</sup> - 50 mm<sup>2</sup>, clamping range for cut conductors 2.5 mm<sup>2</sup> - 35 mm<sup>2</sup>
- ✦ Terminal in the branch 2.5<sup>2</sup>:  
Terminal can be loaded with a rated current of max. 24 A, clamping range for conductors 0.5 mm<sup>2</sup> - 2.5 mm<sup>2</sup>



#### Cable diameter

- ✦ Cable diameter in the main strand: Ø 9 to 34 mm
- ✦ Cable diameter in the branch by means of cable gland: Ø till 16 mm (KVR M25)

#### Fuses in the branch

- ✦ Circuit breaker 2A to 16A, 1-pin to 4-pin
- ✦ Safety fuse D01 from 2A to 16A, 1 to 4 pieces



**WKE Rapid-Box** | The VDE certified **switching device combination**



MEPcontent

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EN Trimble

BIM files Electrical Junction Box

Back to overview

WKE 2

IMAGE 3D



Cable junction box

WKE 2 - 3 x 4²

Description

Cable junction box

Manufacturer article number

86651201

Manufacturer URL

<http://www.spelsberg.com/q/86651201>

Unfollow

Contact manufacturer

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Last update : 25-07-2019

Files Review

	File name	Type	Size
	E_Cable Junction Box_F_MEPcontent_Spelsberg_WKE 2_INT-EN.rfa		1 MB
	E_Cable Junction Box_MEPcontent_Spelsberg_WKE 2_INT-EN.rfa		1 MB
	E_Cable Junction Box_MEPcontent_Spelsberg_WKE 2 - 3 x 4²_INT-EN.dwg		289.4 KB
	E_Cable Junction Box_MEPcontent_Spelsberg_WKE 2 - 3 x 4²_INT-EN.ifc		353.5 KB

Related products

WKE-AK

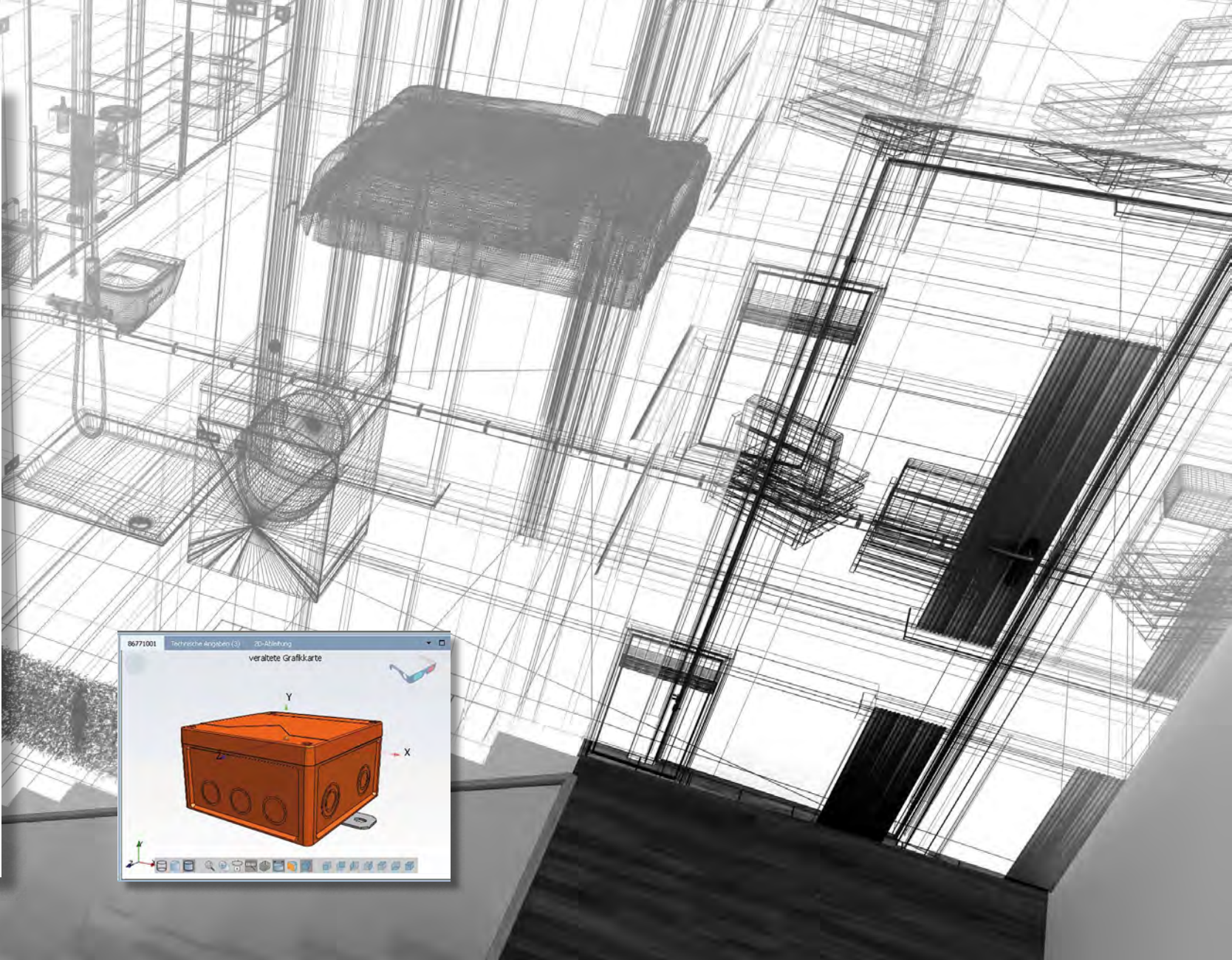
Small scale distributor WKE-AK

WKE 54

Junction box for tunnel WKE 54

WKE-LSA

Cable junction box WKE-LSA



Digitalisation in building technology has long since arrived with the use of CAD and smart solutions. In case of **Building Information Modelling** the entire building is recorded as a model. In doing so, all data relevant for planning, execution or management are combined under a single interface across all sectors.

Consequently, all information is constantly available to all persons involved. If the architect changes the floor plan, the bill of materials for doors or sockets changes automatically, and plans for the supply lines are also adjusted.

From specialist planners to retailers right till the contractors, regular synchronisation always keeps everyone up to date. In this way, quality of the process increases, while time and cost are reduced.

**Spelsberg supports the new standard**

Many CAD manufacturers already support the IFC standard, which is available as an open standard to anyone who deals with buildings throughout their lifecycle.

With immediate effect, Spelsberg is also offering its products as BIM objects for the software solutions REVIT and ArchiCAD.

These can be downloaded from [www.mepcontent.com](http://www.mepcontent.com).

MEPcontent

The BIM library for MEP engineers

Cadenas PARTsolutions supports design engineers, planners and buyers in their work by providing CAD models. For this reason, Spelsberg is also present with its products on the 3D CAD download portal **Cadenas PARTcommunity**.

As early as in the design phase, engineers quickly find both components and standard parts using the smart portal search function.

Apart from this, PARTsolutions also offers the possibility of reducing and managing the components product costs significantly.

Likewise, the increased clarity in the form of a unified structure in the parts-information data and the ordered catalogue structure is a valued advantage for the users.







Spelsberg offers ready-to-use advertising texts for all products on [ausschreiben.de](http://ausschreiben.de), [ais-online.de](http://ais-online.de) and [heinze.de](http://heinze.de). The texts provide relevant product information and descriptions in a convenient format. Thus, planners and architects have this tool directly available for efficient and safe planning.

The Spelsberg product series are additionally characterised by expert opinions. The official documents of the certified WKE products can be downloaded as PDF from [www.spelsberg.com](http://www.spelsberg.com).












Earlier types	New types
WKE 2 - 5 x 6 <sup>2</sup> 860 502 01	WKE 2 - 5 x 1,5 <sup>2</sup> 866 502 01 <b>NEW</b>
WKE 3 - 5 x 10 <sup>2</sup> 860 503 01	WKE 4 - 5 x 4 <sup>2</sup> 866 504 01 <b>NEW</b>
WKE 4 - 5 x 16 <sup>2</sup> 860 504 01	WKE 6 - 5 x 6 <sup>2</sup> 866 506 01 <b>NEW</b>
WKE 5 - 15 x 6 <sup>2</sup> 860 505 01	WKE 6 - 16 x 1,5 <sup>2</sup> 868 516 01 <b>NEW</b>
WKE 5 - 20 x 6 <sup>2</sup> 860 505 20	WKE 6 - 32 x 1,5 <sup>2</sup> 868 532 01 <b>NEW</b>
WKE 5 - 24 x 6 <sup>2</sup> 860 505 24	WKE 6 - 32 x 1,5 <sup>2</sup> 868 532 01 <b>NEW</b>
WKE 2 - 3 x 10 <sup>2</sup> 860 512 01	WKE 2 - 3 x 4 <sup>2</sup> 866 512 01 <b>NEW</b>
WKE 4 - 8 x 6 <sup>2</sup> 860 514 01	WKE 4 - 8 x 1,5 <sup>2</sup> 868 508 01 <b>NEW</b>
WKE 2 - Duo 3 x 6 <sup>2</sup> 861 400 01	WKE 2 - Duo 3 x 4 <sup>2</sup> 867 400 01 <b>NEW</b>
WKE 4 - Duo 5 x 6 <sup>2</sup> 861 410 01	WKE 4 - Duo 5 x 6 <sup>2</sup> 867 410 01 <b>NEW</b>
WKE 5 - Duo 7 x 6 <sup>2</sup> 861 420 01	WKE 6 - Duo 7 x 6 <sup>2</sup> 867 420 01 <b>NEW</b>
WKE 4 - Duo 3 x 10 <sup>2</sup> 861 500 01	WKE 4 - Duo 3 x 10 <sup>2</sup> 867 500 01 <b>NEW</b>

Earlier types	New types
WKE 5 - Duo 5 x 10 <sup>2</sup> 861 510 01	WKE 6 - Duo 5 x 10 <sup>2</sup> 867 510 01 <b>NEW</b>
WKE 4 - Duo 3 x 16 <sup>2</sup> 861 600 01	WKE 6 - Duo 3 x 16 <sup>2</sup> 867 600 01 <b>NEW</b>
WKE 5 - Duo 5 x 16 <sup>2</sup> 861 610 01	WKE 6 - Duo 5 x 16 <sup>2</sup> 867 610 01 <b>NEW</b>
WKE 3 - Duo 3 x 6 <sup>2</sup> / 2 x 6 <sup>2</sup> 861 710 01	WKE 4 - Duo - 3 x 6 <sup>2</sup> / 2 x 6 <sup>2</sup> 867 710 01 <b>NEW</b>
WKE 2 - 3/1 x 6 <sup>2</sup> 1SB 863 721 01	----- Upon request -----
WKE 4 - 3/1 x 16 <sup>2</sup> 1SB 863 921 01	----- Upon request -----
WKE 4 - 4/3 x 6 <sup>2</sup> 2SB 863 747 01	----- Upon request -----
WKE 5 - 4/3 x 16 <sup>2</sup> 2SB 863 748 01	----- Upon request -----
----- No predecessor -----	WKE 4 - 3/3 x 6 <sup>2</sup> 1SB 869 111 01 <b>NEW</b>
----- No predecessor -----	WKE 4 - 5/3 x 6 <sup>2</sup> 1SB 869 121 01 <b>NEW</b>
----- No predecessor -----	WKE 6 - 5/3 x 10 <sup>2</sup> 1D0 869 221 20 <b>NEW</b>
----- No predecessor -----	WKE 6 - 5/3 x 16 <sup>2</sup> 1D0 869 321 20 <b>NEW</b>
















WKE 2 to 6 - cable entries

				Nm
M16	5 - 9	M 16 x 1,5	4 - 10	2,5
M20	7-12	M 20 x 1,5	6 - 12	4
M25	9 - 16	M 20 x 1,5	7 - 14	4
M32	14 - 21	M 25 x 1,5	9 - 16	6
M40	19 - 28	M 32 x 1,5	11 - 21	7
M32/4	4x 3,5 - 6	M 40 x 1,5	16 - 28	7,5
M40/4	4x 6 - 9			



 = Double membrane seals  
 = Cable screw coupling  
 = Clamping area  
 = Rated torque  
 = Cable cross section




Number of conductors that can be clamped per pin or clamping unit (depending upon the housing size)

	Terminal 6² Tightening torque 0.8 Nm			Terminal 10² Tightening torque 1.2 Nm			Terminal 16² Tightening torque 2.0 Nm		
									
0,5²	16	8	4						
0,75²	8	4	2						
1,0²	12	6	3	20	10	5			
1,5²	12	6	3	16	8	4	20	10	5
2,5²	4	2	1	12	6	3	16	8	4
4²	4	2	1	8	4	2	12	6	3
6²	4	2	1	4	2	1	8	4	2
10²				4	2	1	4	2	1
16²							4	2	1

 = Single terminal, 2 clamping units  
 = Clamping unit  
 = Double terminal, 4 clamping units

WKE 200-400 - cable entries

		Nm
M 20 x 1,5	6 - 13	4
M 25 x 1,5	6 - 15	6
M 25 x 1,5	9 - 19	6
M 32 x 1,5	17 - 26	7
M 40 x 1,5	17 - 27	7,5
M 50 x 1,5	23 - 34	7,5

 = Cable screw coupling  
 = Clamping area  
 = Rated torque

WKE 200-400 - Connection capacity of the terminals

	Conductor cross-section single-wire		Conductor cross-section multi-wire		Tightening torque	
	min	max	min	max	min	max
WKE SAK 2,5 / 35	0,5 mm²	6 mm²	0,5 mm²	4 mm²	0,4 Nm	0,6 Nm
WKE SAK 6 / 35	0,5 mm²	10 mm²	0,5 mm²	6 mm²	0,8 Nm	1,6 Nm
WKE SAK 10 / 35	1,5 mm²	10 mm²	1,5 mm²	16 mm²	2 Nm	2,4 Nm
WKE SAK 16 / 35	2,5 mm²	16 mm²	4 mm²	16 mm²	2 Nm	2,4 Nm
WKE SAK 35 N / 35	2,5 mm²	16 mm²	4 mm²	35 mm²	4 Nm	5 Nm





Mark



Drilling



Screw tightly



#### Installation of the cable

If the box is attached to the wall, the cables are inserted one at a time through the openings at the top. The cables must first be passed through the fire protection foam between the outer and inner housing. Double membrane seals ensure that the cable bushing lying inside is sealed securely. Each of the PE and N terminals in the distributor offer adequate connection capacity with up to 6 clamping units 2.5 - 16 mm<sup>2</sup> that can be fixed with screws and up to 21 screw-less clamping units 1.5 - 4 mm<sup>2</sup>.

#### Quick mounting on the wall

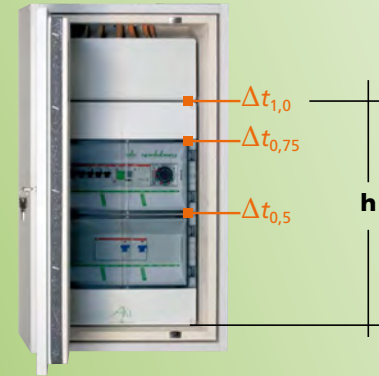
For fixing the WKE AK 14 to 70 on the wall, only the dowels or screw anchors described in the „General Building Inspectorate Approval“ may be used. The wall, on which the distributor is to be mounted, must have sufficient load-bearing capacity. In doing so, the fire resistance of the supporting walls must be at least as high as that of the distributor.

Using the enclosed screw anchors, the WKE AK can be mounted effortlessly on the mounting holes in the housing - in cracked or non-cracked concrete. A distance of at least one metre to the fire protection distributor is prescribed under low-voltage operation for adjacent installations, such as gas or water. A distance corresponding to the door end stop must be maintained near the doors.

	WKE AK 14	WKE AK 28	WKE AK 42	WKE AK 56	WKE AK 70
Height	300 mm	450 mm	600 mm	750 mm	900 mm
Width	300 mm	300 mm	300 mm	300 mm	300 mm
Depth	142 mm	142 mm	142 mm	142 mm	142 mm
perm. power loss at 25 °C ambient temperature	21 W	27 W	33 W	40 W	47 W
	k= 2,38 c= 1,18	k= 1,85 c= 1,23	k= 1,53 c= 1,24	k= 1,32 c= 1,25	k= 1,17 c= 1,25

$$\Delta t_{0,5} = k \times P_V^{0,804}$$
$$\Delta t_{1,0} = c \times \Delta t_{0,5}$$
$$\Delta t_{0,75} = \Delta t_{1,0}$$

The temperature profile between 0.5 and 0.75 is approximately linear



$$P_V \text{ devices}^{*1}$$
$$+ P_V \text{ fuses}^{*1}$$
$$+ P_V \text{ cables}^{*2}$$
$$= \text{Total } P_V$$

\*1 For a lower load on switching devices having ohmic internal resistance to a large extent, the following equation may be used

$$P = P_n \left( \frac{I}{I_n} \right)^2$$

P = Power loss  
I = Load current  
I<sub>n</sub> = Operating current  
P<sub>n</sub> = Power loss at I<sub>n</sub>

\*2 For a lower load on the conductor, the following equation may be used

$$P = P_n \left( \frac{I}{I_n} \right)^2$$

P = Power loss in Watt per metre  
I = Conductor current (load)  
I<sub>n</sub> = Operating current  
P<sub>n</sub> = Power loss at I<sub>n</sub>

Adherence to the limiting temperatures is a decisive criterion for the safe operation of the installation distributor. Too high internal temperatures in the housing can lead to a premature triggering of the fuses or circuit breakers. In extreme cases, too high temperatures can also damage the cables. VDE0660-507 specifies a method for determining the heating of partially type-tested low-voltage switching device combinations by extrapolation. In order to simplify the calculation process, the factors k and c have already been determined by Spelsberg.

For a correct calculation of all built-in devices, the operating current (I<sub>n</sub>), the power losses at operating current (P<sub>n</sub>) and the actual load current (I) are required. From this, the actual power loss of the individual devices can then be calculated. The temperature increase in the housing can then be calculated using the total power loss. Together with the ambient temperature, the internal temperature of the housing results in different values. With this result, it can then be checked, whether the limiting temperatures of the built-in devices and cables are exceeded.

In this case, different devices are to be used or the power loss is to be reduced. The maximum operating current at the given temperature can be determined for circuit breakers and fuses from the data sheets of the manufacturer.





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