



# Boxes for dusty, wet and tough environments

Catalogue 2017

Mureva surface mounted boxes



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Life Is On

**Schneider**  
Electric

The Mureva  
boxes surpass  
almost anything!

They are all  
halogen-free  
and now are  
offered in the  
Exxact wiring  
devices white





# Mureva

Sometimes you need electricity where it really should be impossible to install it, like in wet or dusty places, or where electricity has not been planned at all. You needn't worry! Since the Mureva boxes from Schneider Electric thoroughly satisfy any high safety requirement that the business might have, all surface mounted installations can be made irrespective of environment or safety needs. The boxes are easy to install, they are stable and they are halogen-free. You can equip them according to your specific needs or buy them as complete junction boxes. With Mureva at hand, no job will be too demanding!



# What makes Mureva outstanding?



Obviously, the Mureva boxes work away as they should, but they have also been designed to facilitate your work! Every installation should be quick and easy, and with a professional final result, too. We have therefore spent much time in adjusting every detail, which you will notice when using the products. In addition, the Mureva range has been thoroughly tested in order to satisfy any requirement that is made for surface mounted boxes in demanding environments.

## A complete range

Mureva includes all the boxes you need for surface mounted installations. Indoor and outdoor junction boxes, enclosed boxes, boxes for cable trays, fire resistant boxes.

### Pre-assembled, yet flexible

All Mureva boxes are available empty or including the terminal block that you need for the installation. They are all part of the same system, which means that for instance terminal blocks and strain relief devices match the different boxes. Thus, you will never feel blocked.

### Adequate fixation – always

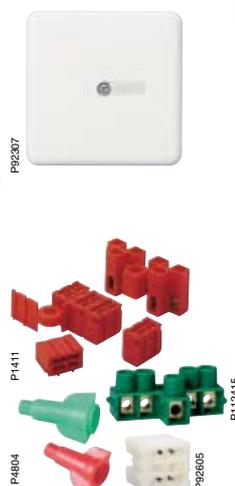
You can mount Mureva wherever it suits you best. On the wall, with a spacer where cables make it necessary, on cable trays using boxes with a pre-assembled cable-tray plate. The same degree of protection applies whichever fixing variant you may chose.

### Smart covers

When you chose Mureva you won't have to keep the screws under control. They are "unlosable" as we like to call it. And they are of course rustproof. The cover is stable and tight-fitting. Some boxes are available with a click-lid without screw.

### Terminal block or twist-on connector?

Let your needs decide how to connect your Mureva box. You can use a screw terminal for large-size cables, a push-in terminal for 1.5-2.5 mm<sup>2</sup> cable, or the TORIX twist-on connector. The push-in terminals are the fastest – just insert the cables and the conductors will be connected! The risk of a loose contact is practically non-existent and you can mix conductors, like solid and rigid stranded and 1.5 och 2.5 mm<sup>2</sup> conductors.



# A surface mounted range

## IP20 page 6

Junction boxes for discreet installations in housing environments.



## IP54 page 8

Tough boxes that can handle dust, moist and impact in rough environments.



## IP65 page 10

Boxes with click-lid or screw-fixed cover for bathrooms, farms and industries. A fire resistant alternative is available.



## IP67 page 12

Waterproof boxes for the toughest environments. A fire resistant alternative is available.



### New white color

The modern white offered in the Exxact range (RAL9003) is now also present in the Mureva boxes.

### Halogen-free

The products in the Mureva range are halogen-free. Good for you and for the environment!



### Thoroughly tested

The products of the Mureva range are based on more than 30 years of experience of installation material and of how they can make your job easier. And everything is tested and standardized.



### Fire classification

Tough requirements on fire resistance are no problem when you go for Mureva. Two fire classified boxes, Mureva U56 and Mureva 350, are included in the range.



### Classification for wet rooms

Our enclosed boxes are the natural choice for bathrooms, pool rooms and other tough, demanding environments.

# IP20

## Junction boxes for housing environments

The degree of protection IP20 means that the box is protected against intrusion of objects bigger than 12 mm, but that it has no protection against water.

Thus, the box is perfectly suited for normal indoor use. You should therefore use an IP20 classified junction box when you update electricity in older housing environments. The box is also excellent when making complementary installations or when you are cramped for space. You always get a safe result, and the box harmonizes discreetly with the housing environment thanks to the modern white (RAL9003).

The Mureva range includes the junction boxes K60, K90, TED-001 and TED-002.



## Mureva junction boxes K60 and K90

You have most certainly seen our small, square junction box K60 (60x60 mm) before, since it implies an aesthetically attractive solution for surface mounted installations. If you should need larger space for the connection, the bigger junction box K90 (90x60 mm) is your obvious choice. The cover of K90 is snap-fitted, providing a fast and neat installation without screws. Pick your choice between a box with pre-assembled terminals or an empty box for use with the TORIX twist-on connector.



### K60

K60 is available empty or pre-assembled with a 5-pole screw-type terminal. The square shape enables several installation options.

### Approval

SEMKO and FIMKO for 440 V AC. to the IEC standard 60670-1.



### K90

The rectangular K90 with snap-fitted cover is available empty, with pre-assembled 2x3-pole screw-type terminals, with 2x3-pole screw-type terminals and strain relief, or with five push-in terminals that can be moved around on the bottom plate to suit the installation.

### Approval

SEMKO and NEMKO for 440 V AC. to the IEC standard 60670-1.



### Strain relief device

If you combine the junction box with a strain relief, you can fix cables of max. Ø 14 mm.



### Loose terminal blocks

The push-in terminal can take conductors of max. 5x1.5 mm<sup>2</sup> or 5x2.5 mm<sup>2</sup>, and the screw-type terminal max. 6x1.5 mm<sup>2</sup>, 4x2.5 mm<sup>2</sup>, 3x4 mm<sup>2</sup> or 2x6 mm<sup>2</sup>.

## Mureva TED-001 and TED-002

If you need a bigger box with a screw-fixed cover, we recommend one of the five Mureva TED variants. Connections are made through any of the four sides of the cover, or through the box bottom. Among the accessories, a strain relief device is available. Make your choice between a box with pre-assembled terminals or an empty box for connection with the TORIX twist-on connector.



### TED-001

The box is available in two variants, empty or with five pre-assembled push-in terminals.



### TED-002

TED-002 is available in three versions: empty, with pre-assembled 6-pole screw-type terminal or with five push-in terminals. Knock-out openings at the bottom minimize the use of tools.

### Approval

SEMKO, NEMKO, DEMKO and FIMKO for 440 V AC. to the IEC standard 60670-1.



### Quick and easy

By using the Mureva pliers it will be easy to cut a hole for connection in the cover of IP20 classified boxes.



### The choice is yours

The boxes are supplied with the type of terminal block that best suits the installation.

# IP54

For protection against dust, moisture and impact in tough environments

The IP54 classification means extra protection against dust and moisture. Products with this classification are suitable for surface mounted installations in unheated premises, schools, sports centres and similar public premises. They can also be used for outdoor installations. Our enclosed IP54 box is Mureva TED-012. It is dust and moisture-proof, has clever screw-fixed covers and is impact resistant.



# Mureva TED-012



Mureva TED-012 can withstand physical strains, dust and moisture, thanks to their screw-fixed covers with unlosable rustproof screws. Make your choice between boxes with pre-assembled terminals or empty boxes for connection with the TORIX twist-on connector. Various accessories are available, like a wire bracket/spacer and strain relief devices.



### TED-012

TED-012 is available empty or with pre-assembled 6-pole screw-type terminal. The cover has an edge that provides a very solid box. The size of the box makes it well suited for installations that require a lot of space.

### Approval

SEMKO, NEMKO, DEMKO and FIMKO for 440 V AC. to the IEC standard 60670-1.



### Strain relief devices

Available for TED boxes from IP20 to IP65. For strain relief of cables up to Ø 14 and Ø 20 mm.



### Wire bracket/spacer

Available for TED boxes with IP54 and IP65.

# IP65

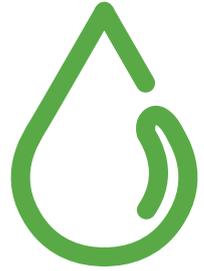
## Bathrooms and farms require extra protection against dust and water

Every bathroom represents an obvious risk of exposing the electric installation to moisture. The boxes used must have a protection against water for instance from a shower. Our box for this purpose is Mureva U56 with a click-lid.

The well-adjusted and slightly rounded design of this box makes it equally suitable in a home setting as in modern industrial premises.

In industrial or farming environments, the installation is exposed both to water and dust. Choose Mureva U56 also in this case, though with a screw-fixed cover.

Mureva U56 is now IP65 in all versions (click-lid or screw-fixed cover).



## Mureva U56 with click-lid



### U56 with click-lid

The box is supplied empty with a glossy and stable click-lid without screw. This box fulfils the safety requirements, read more on page 14.

### Approval

SEMKO, NEMKO and FIMKO for 440 V AC. to the IEC standard 60670-1.



### Degree of protection

Mureva U56 is now a full IP65 range (both versions are IP65).

## Mureva U56 with screw-fixed cover



### U56 with screw-fixed cover

Mureva U56 is available empty, with pre-assembled 5-pole screw-type terminal, with 2x3-pole screw-type terminals or with 6 push-in terminals that can be moved around on the bottom plate to suit the installation.

### Approval

SEMKO, NEMKO and FIMKO for 440 V AC. to the IEC standard 60670-1.

### Fire classification

UL 94-V0 (Ref. numbers IMT36126 and IMT36127).



### Strain relief

Don't forget to add the strain relief (IMT36084) to facilitate your installation.



### In every direction!

Mureva U65 has ten entries, allowing cables to always be connected the shortest way.

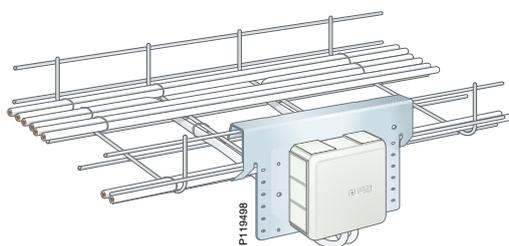
### Exact white color

Mureva U56 is supplied now in the same white than Exact wiring devices range.

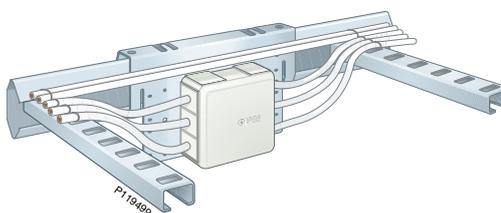


## Easier installations on cable trays

Mureva U56 is a real hit if you want to install a surface mounted box on a cable tray, since Schneider Electric produces them both! Mureva U56 is available pre-assembled on a cable-tray plate that suits our own as well as other standard variants of cable ladders and trays on the market. The plate can also be mounted on rails for electric fittings and on wire.



The cable-tray plate has special fixing edges that suit mounting on mesh trays.

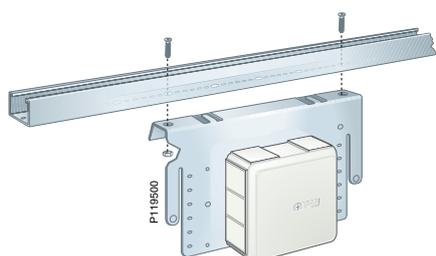


The U56 box on the inner side of a cable ladder. The plate can also be installed upwards if the space is limited in the downward direction because of the ceiling.



**Work away faster!**

When ordering Mureva U56, one single reference number will provide you with cable-tray plate, box and terminal block, pre-assembled and ready.



Cable-tray plate with the U56 box on a rail for electric fittings.



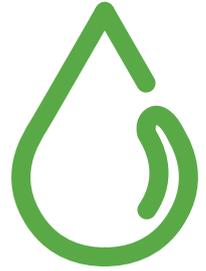
### Approval

SEMKO, NEMKO and FIMKO for 440 V AC. to the IEC standard 60670-1.

# IP67

## Enclosed boxes for the very toughest environments

In the very toughest environments, like in laundries and industrial establishments, the box must withstand water splashing without letting moisture in, i.e. it must be watertight. In addition, it must resist various chemicals and high temperatures without losing its shape. Our IP67 classified boxes are Mureva 350 and Mureva TED-022.



F117673

## Mureva 350, fire-classified, watertight thermoset box



The 350-series was launched more than 60 years ago. The box is a watertight, enclosed box of halogen-free thermoplastic acc. to IP67. It has superior capacity to hold water outside and excellent resistance to fire and chemicals. When burning, the box slowly get charred without an open flame.

The 350-series is frequent in car-wash and laundry establishments, food industries and similar activities, where the electric installation must be kept from water. The box is available with a 5-pole screw terminal and with two, three or four cable glands.

### Approval

SEMKO for 440 V AC. to the IEC standard 60670-1.

### Fire classification

UL 94-V0.



### Fire classified & halogen-free

Mureva 350 does not burn, it slowly get charred. And just like our other boxes it is totally halogen-free, which means that no toxic gases are formed in case of fire.

## Mureva TED-022 – watertight and capacious



If you need a larger enclosed box than Mureva 350, for installations in for instance public baths and car-wash establishments, TED-022 is your best choice. The box is dust and watertight but has no fire classification. The cover is provided with “unlosable” rustproof screws.

The box is supplied with a pre-assembled 6-pole screw terminal, or empty for connection with the TORIX twist-on connector. Various accessories are available, like wire bracket/spacer and strain relief devices.

### Approval

SEMKO, NEMKO and FIMKO for 440 V AC. to the IEC standard 60670-1.



### Mureva TED-022

Is now supplied in white color (RAL9003).



Still a favourite after 30 years – TORIX twist-on connector.



### Description

The Schneider Electric range of surface mounted boxes consists of five sizes of IP20 boxes and five types of water-tight boxes (IP44–67), out of which two boxes conform to the UL 94 V0 fire resistance requirements.

The boxes are suitable for all types of installations, ranging from indoor to outdoor use.

The range also includes a large number of accessories, specially designed to make installations faster, easier and safer.

### Benefits

- Large range of IP classes, from IP20 to IP67
- Same white as Exxact wiring device range (SE white 3 RAL9003)
- Large range of box sizes
- Two types of cover fixings; both snap-fitted covers and screw-fastened covers are available
- Fire-resistant boxes (UL 94 V0).

### Standards & approvals

Standards	60 670-1
	UL 94 V0 (Fire resistance)
Approvals	Semko, Nemko, Demko, Fimko

### Technical and Material data

Material	ABS (acrylonitrile butadien styrene)	
	Density	1.05 g/cm <sup>3</sup>
	Colour	SE white 3 RAL9003
Material	PC/ABS (polycarbonate/acrylonitrile butadien styrene)	
	Density	1.18 g/cm <sup>3</sup>
	Colour	SE white 3 RAL9003
Material	Ureaformaldehyde	
	Density	1.5 g/cm <sup>3</sup>
	Colour	SE white 7 RAL9007
Electrical data	Approved for 440 V	
Temperature range	-25°C – +60°C	
Suitable outdoors	Suitable products are available in the range	
Degree of protection	From IP20 to IP67	

## Box K90

	Type	Colour	Dimensions A/B/C (mm)		Qty per package	EAN code	Ref. No.
	<b>Without terminal block</b>						
	Surface mounted junction box with snap-fitted cover and fixings for terminal blocks. IP20. Material: PC / ABS.						
P147151	KBS 60	White RAL9003	60/33/90		10	3606481166463	IMT34057
	<b>With terminal block, screw-type</b>						
	Surface mounted junction box with snap-fitted cover and 6-pole screw-type terminal block. IP20. Max. cable area 4x1.5 mm <sup>2</sup> or 3x2.5 mm <sup>2</sup> . 440 V. Material: PC / ABS.						
P147152	KBS66	White RAL9003	60/33/90		10	3606481166470	IMT34058

## Box K60, KB65

	<b>Without terminal block</b>						
	Surface mounted junction box with screw-fixed cover. IP20. 440 V. Material: PA6/PP.						
P147155	K60	White RAL9003	60/30/60		5	3606481166494	IMT34092
	K60 Provided with a label with Russian text	White RAL9003	60/30/60		5	3606481166609	IMT34351
	<b>With terminal block, screw-type</b>						
	Surface mounted junction box with screw-fixed cover and 5-pole screw-type terminal block. IP20. Max. cable area 4x1.5 mm <sup>2</sup> or 3x2.5 mm <sup>2</sup> . 440 V. Material: PA6/PP.						
P147156	K60	White RAL9003	60/30/60		5	3606481166500	IMT34093
	K60 Provided with a label with Russian text	White RAL9003	60/30/60		5	3606481166616	IMT34352
P147170	KB65	White RAL9003	45/32/109		10	3606481166487	IMT34068

## Box U56

	<b>Without terminal block</b>						
	Surface mounted junction box with screw-fixed cover. With ten grommets for cables up to Ø14 mm. IP65. Material: ABS.						
P147157	U56	White RAL9003	87/39/87		5	3606481158086	IMT34076
	U56 Provided with a label with Russian text	White RAL9003	87/39/87		5	3606481158192	IMT34349
	<b>With terminal block, screw-type</b>						
	Surface mounted junction box with screw-fixed cover and screw-type terminal blocks. With ten grommets for cables up to Ø14 mm. IP65. Material: ABS.						
P147158	U56 5-pole screw terminal	White RAL9003	87/39/87		5	3606481158093	IMT34077
	U56 5-pole screw terminal, provided with a label with Russian text	White RAL9003	87/39/87		5	3606481158208	IMT34350
P147160	U56 2x3-pole screw terminals	White RAL9003	87/39/87		5	3606481158123	IMT34095
	<b>With terminal block, push-in type</b>						
	Surface mounted junction box with screw-fixed cover and 6-pole push-in terminal blocks. With ten grommets for cables up to Ø14 mm. IP65. Material: ABS.						
P147159	U56	White RAL9003	87/39/87		5	3606481158116	IMT34094
	<b>Fire-resistant, without terminal block</b>						
	Surface mounted junction box with screw-fixed cover. Fire-resistant according to UL 94 V0. With ten grommets for cables up to Ø14 mm. IP65. Material: PC/ABS.						
P147157	U56	White RAL9003	87/39/87		5	3606481158154	IMT34126

## Box U56

	Type	Colour	Dimensions A/B/C (mm)		Qty per package	EAN code	Ref. No.
	<b>Fire-resistant, with terminal block, screw-type</b>						
	Surface mounted junction box with screw-fixed cover and 5-pole screw-type terminal block. Fire-resistant according to UL 94 V0. With ten grommets for cables up to Ø14 mm. IP65. Material: PC/ABS.						
P147158	U56	White RAL9003	87/39/87		5	3606481158161	<b>IMT34127</b>
	<b>Click-lid box, without terminal block</b>						
	Surface mounted junction box with click lid. With ten grommets for cables up to Ø14 mm. IP65. Material: ABS.						
P147171	U56	White RAL9003	87/39/87		5	3606481158178	<b>IMT34128</b>
	<b>Mounted on cable-tray plate, without terminal block</b>						
	Surface mounted junction box with screw-fixed cover mounted on a cable-tray plate. With ten grommets for cables up to Ø14 mm. IP65. Material: ABS.						
P147161	U56	White RAL9003	120/39/180		5	3606481158130	<b>IMT34096</b>
	<b>Mounted on cable-tray plate, with terminal block, screw-type</b>						
	Surface mounted junction box with screw-fixed cover and 5-pole screw-type terminal block, mounted on a cable-tray plate. With ten grommets for cables up to Ø14 mm. IP65. Material: ABS.						
P112372	U56	White RAL9003	120/39/180		5	3606481158147	<b>IMT34097</b>

## Box 350

	Type	Colour	Dimensions A/B/C (mm)	Qty per package	EAN code	Ref. No.
	<b>With terminal block, screw-type</b>					
	Surface mounted junction box with screw-fixed cover, 5-pole screw-type terminal block and cable glands. Fire-resistant AC. to UL 94 V0. IP67. Material: Ureaformaldehyde.					
P112373	350 series 1 up/1 down	White RAL9007	126/45/86	10	3606480148279	<b>IMT36098</b>
P112374	350 series 1 up/1 down/1 right	White RAL9007	126/45/106	10	3606480148286	<b>IMT36099</b>
P112375	350 series 2 up/1 down	White RAL9007	126/45/86	10	3606480148293	<b>IMT36100</b>
P112376	350 series 2 up/2 down	White RAL9007	126/45/86	10	3606480148309	<b>IMT36101</b>

## Box EL-SAN

	Type	Colour	Dimensions A/B/C (mm)	Qty per package	EAN code	Ref. No.
	<b>Without terminal block</b>					
	Surface mounted junction box with screw-fixed cover, including an earthing system with earth wires and steel plates. To be used where electromagnetic radiation has to be kept low. IP44. Material: ABS, sheet steel.					
P112412	EL-SAN	White RAL9010	82/39/82	1	3606480148590	<b>IMT36186</b>
P112413	EL-SAN	White RAL9010	82/55/82	1	3606480148606	<b>IMT36187</b>

## Accessories K90, K60, KB65, U56

	Type	Colour	Dimensions A/B/C (mm)		Qty per package	EAN code	Ref. No.
<b>Terminal blocks</b>							
P112377	3-pole screw-type terminal block for use in U56 junction boxes. Cable range 1.5-2.5 mm <sup>2</sup> . 440 V. Material: PA.						
	U56 Screw terminal	Green	25/9/31		10	3606485135915	IMT36089
P112415	5-pole screw-type terminal block for use in U56 junction boxes. Max cable area 3x2.5 mm <sup>2</sup> . Material: PA						
	U56 Screw terminal	Green	20/25/51		10	3606485135885	IMT36086
P92605	6-pole push-in terminal block approved for max 85°C. Max cable area 6x2.5 mm <sup>2</sup> . For K90/U56 with terminal plate. Material: PA.						
	K90/U56 Push-in terminal	White	15/15/15		50	6438054006749	WDE0000010
<b>Terminal plate</b>							
P112380	Terminal plate for fixation of screw-type or push-in terminal blocks in U56 junction boxes. Material: ABS.						
	U56 Terminal plate	White	70/5.5/42		10	3606485135908	IMT36088
<b>Strain relief devices</b>							
P112378	Strain relief for K90 junction boxes. Can also be used with U56 terminal plate in U56 junction box. Material: Thermoplastic.						
	K90 Strain relief	White	32/9/17		10	3606480148316	IMT36102
P112382	Strain relief for U56 junction boxes. Max cable diameter 14 mm <sup>2</sup> . Material: ABS.						
	U56 Strain relief	White	27/46/56		10	3606485135861	IMT36084
P112388	Strain relief for K60 junction boxes. Also suitable for KB65 junction box. Material: PA.						
	K60 Strain relief	White	42/20/24		10	3606480148569	IMT36109
<b>Mounting plate</b>							
P112379	Mounting plate for wire cables with a maximum cross section of Ø10 mm. Material: Sheet steel.						
	Mounting plate	—	80/2/210		10	3606480148545	IMT36103
<b>Grommets</b>							
P112381	Replacement grommet for U56 junction boxes. Material: SEBS.						
	U56 Grommet	White RAL9003	8/23/23		10	3606481158109	IMT34085
P112381	Small grommet for U56 junction boxes, fire-resistant. Material: SEBS.						
	U56 Grommet	White RAL9003	7/22/22		10	3606481158185	IMT34129
<b>Partition wall</b>							
P112383	Partition wall to be used in U56 junction boxes. To divide the box in two separate compartments, for the separation of power and low voltage cables. Material: Thermoplastic.						
	U56 Separation wall	Green	32/-/80		5	3606480148323	IMT36104
<b>Spacer</b>							
P112386	Spacer for surface mounted junction boxes. Material: PA.						
	Spacer	White	15/14/18		10	3606480148552	IMT36107
<b>Pliers</b>							
P112387	Pliers for cutting holes in junction boxes with IP20 classification. Material: Steel.						
	Cutting pliers	Black/green	150/60/200		1	3606480148354	IMT36108

## Box TED-001

Type	Colour	Dimensions A/B/C (mm)		Qty per package	EAN code	Ref. No.
<b>Without terminal block</b>						
Surface mounted junction box with screw-fixed cover. IP20. Material: PC/ABS.						
P147167 	White RAL9003	60/25/91		5	3606481166555	<b>IMT34115</b>

## Box TED-002

<b>Without terminal block</b>						
Surface mounted junction box with screw-fixed cover. IP20. Material: PC/ABS.						
P147168 	White RAL9003	61/31/78		5	3606481166562	<b>IMT34117</b>
<b>With terminal block, screw-type</b>						
Surface mounted junction box with screw-fixed cover and 6-pole screw-type terminal block KP18. IP20. Material: PC/ABS.						
P147169 	White RAL9003	61/31/78		5	3606481166579	<b>IMT34119</b>

## Box TED-012

<b>Without terminal block</b>						
Surface mounted junction box with screw-fixed cover. IP54. Material: ABS.						
P147163 	White RAL9003	100/49/100		5	3606481166517	<b>IMT34111</b>
<b>With terminal block, screw-type</b>						
Surface mounted junction box with screw-fixed cover and 6-pole screw-type terminal block. IP54. Material: ABS.						
P147164 	White RAL9003	100/49/100		5	3606481166524	<b>IMT34112</b>

## Box TED-022

<b>Without terminal block</b>						
Surface mounted junction box with screw-fixed cover. IP67. Material: ABS.						
P147165 	White RAL9003	100/49/100		5	3606481166531	<b>IMT34113</b>
<b>With terminal block, screw-type</b>						
Surface mounted junction box with screw-fixed cover and 6-pole screw-type terminal block KP18. IP67. Material: ABS.						
P147166 	White RAL9003	100/49/100		5	3606481166548	<b>IMT34114</b>

## Accessories TED

	Type	Colour	Dimensions A/B/C (mm)		Qty per package	EAN code	Ref. No.
<b>Strain relief devices</b>							
Strain relief for TED boxes IP20-IP65. For strain relief of cables up to Ø 14 and 20 mm respectively. Material: PA.							
P112401	TED-DAV14 Up to Ø14 mm	Grey	23/60/31.5		5	3606485135823	IMT36080
P112402	TED-DAV20 Up to Ø20 mm	Grey	27.5/61/37		5	3606485135830	IMT36081
<b>Grommets</b>							
Replacement grommets for surface mounted junction boxes. Material: EBA.							
P112408	TED-NP012 For TED-012 boxes	White RAL9003	Ø27.5/8.8		10	3606481166586	IMT34124
P112409	TED-NP022 For TED-022 boxes	White RAL9003	Ø29/15		10	3606481166593	IMT34125
<b>Screw terminal</b>							
6-pole screw-type terminal block for TED junction boxes. Max cable area 6 mm <sup>2</sup> . Material: PA.							
P112410	TED-KP18	Red	25/20/55		5	3606485135854	IMT36083
<b>Wire bracket/spacer</b>							
Combined wire bracket and spacer for TED junction boxes with IP54 and IP65. Material: PC.							
P112403	TED-L/D	White	14/5/87		5	3606480148446	IMT36120
<b>Pliers</b>							
Pliers for cutting holes in junction boxes with IP20 degree of protection. Material: Steel.							
P112387	Cutting pliers	Black/green	150/60/200		1	3606480148354	IMT36108

## Compatible products, Thorsman range

<b>Twist-on connector</b>							
Twist-on connector for the connection of all kinds and combinations of wire. A test hole at the top of the connector ensures quick and easy testing of the connection with ordinary testing instruments. Material: PA.							
P4604	TORIX T6	Red	20/14/28		100	7315883000218	3000210
<b>Installation screw with cup washer</b>							
Installation screw with cross-slotted head type PH2. Sharp point, fully threaded. High pitch for quick mounting. Provided with a cup washer for screw-head protection. Material: Hardened steel (electro-zinc), PP.							
P99119	TFT-IS5x32	—	Ø5/32		100	7332418018203	4020210
<b>Wood screw</b>							
Wood screw with panhead, Philips cross recess. Twin thread, sharp point. Fully threaded. Suitable for wood and wood fibreboard and together with plugs. Mounting with cross-point or power screwdriver. Material: Steel (electro-zinc).							
P81322	TGS-52	—	Ø4.2/38		100	7315880054849	3709855
	TGS-53	—	Ø4.2/45		100	7315883709869	3709860
<b>Nail plug</b>							
Nail plug for all types of through installation, such as electrical trunking, switches, battens, clamps, boxes, door/window frames. Suitable for concrete, stone, low density concrete, expanded clay, hollow bricks and blocks, solid bricks and plasterboard. The plug provides a powerful expansion. Material: PA, steel.							
P98051	TPS-5/20x50	Clear	Ø5/50		100	7315881149704	1149707

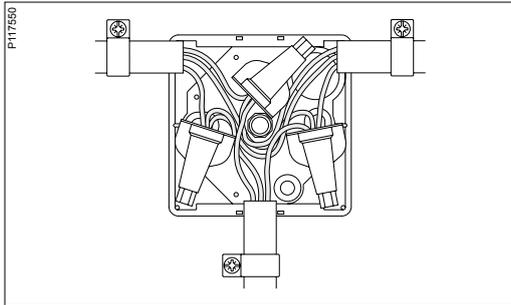
## Compatible products, Thorsman range

Type	Colour	Dimensions Ø/L (mm)	Qty per package	EAN code	Ref. No.
<b>Self-tapping collar screw</b>					
Self-tapping collar screw with hexagon head 1/4" and Phillips cross recess. Collar dia. 8.3 mm. Drill point, single self-tapping thread, fully threaded. Fastened without pilot drilling. Suitable for sheet steel, maximum 2x1.5 mm. Mounting with cross-point screwdriver or magnetic socket. Material: Steel (electro-zinc).					
TSB-8x1/2	—	Ø4.2/13	100	7315883780714	<b>3780710</b>
TSB-8x3/4	—	Ø4.2/19	100	7315880047445	<b>3780715</b>
<b>Collar screw</b>					
Collar screw with hexagon head. Phillips cross recess. Twin thread, fully threaded. Suitable for wood and wood fibreboard, sheet steel, and together with plugs. Mounting with cross-point screwdriver or magnetic socket. Material: Steel (electro-zinc).					
TST-8x1	—	Ø4.2/25	100	7315880044420	<b>3780220</b>
TST-8x11/2	—	Ø4.2/38	100	7315880044444	<b>3780230</b>
<b>Wall plug</b>					
Wall plug suitable for use in concrete, stone, lightweight concrete, expanded clay, hollow bricks, solid bricks and plasterboard. Material: PE-HD.					
TP 1	Yellow	Ø5.5/22	100	7315881001002	<b>1001007</b>
TP 2	Red	Ø5.5/35	100	7315881003006	<b>1003003</b>
<b>Cavity fixing</b>					
Cavity fixing for lightweight installations in plasterboard, including wood screw with cross-slot Pozidriv 2. Material: Zinc. Electroplated steel screw.					
TPD-SK	—	Ø4.5/35	100	7315880114291	<b>1220104</b>
Cavity fixing including screw with panhead and Phillips cross recess. Sharp point, twin thread, fully threaded, length 38 mm. The shape of THW prevents it from rotating. No pre-drilling needed, just hammer in. Excellent for porous and thin material. Pull-out load 100 N, safety factor 3. Shear load 100N, safety factor 2.5. Board thickness 6-13 mm, max. thickness of fixture 16 mm. Material: Steel (electro-zinc).					
THW 4.2x38	—	10/30/12	50	7315881260171	<b>1260170</b>
<b>Screw bits</b>					
1/4 hexagon drive end, various lengths (25, 50 or 110 mm, see below). Adapted to the Thorsman range of installation screws with Phillips cross recess. Material: Hardened steel.					
PH 2x25	—	1/4"/25	2	7315881772056	<b>1772054</b>
PH 2x25 Reduced	—	1/4"/25	2	7315880056294	<b>1772052</b>
PH 2x50	—	1/4"/50	2	7315880055273	<b>1772056</b>
PH 2x110	—	1/4"/110	2	7315880055297	<b>1772058</b>
<b>Magnetic sockets</b>					
Magnetic socket with 1/4" hexagon drive end. Internal hexagon with magnet. Suitable for screws with a 1/4" hexagon head. To be used together with a screw-driver. Material: Steel.					
TST-V 10x45	—	1/4"/45	1	7315880055259	<b>1772125</b>
TST-V 9x100	—	1/4"/100	1	7315881772124	<b>1772120</b>
Specially suited for tight spaces					

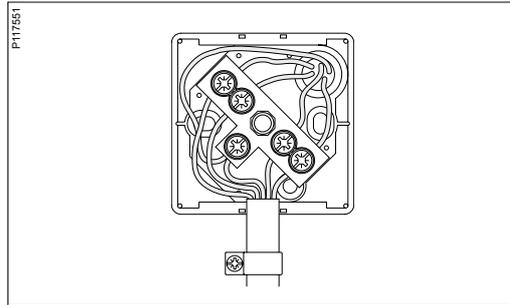
# Connection examples

## IP20 boxes

### K60, K90 TED-002 boxes



Junction box K60 connected with TORIX twist-on connectors.

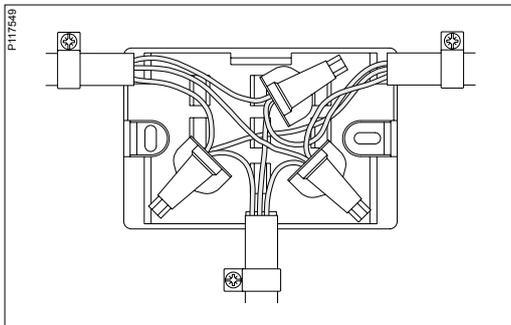


Junction box K60 with cable entry from the wall connected with a 5-pole screw terminal.

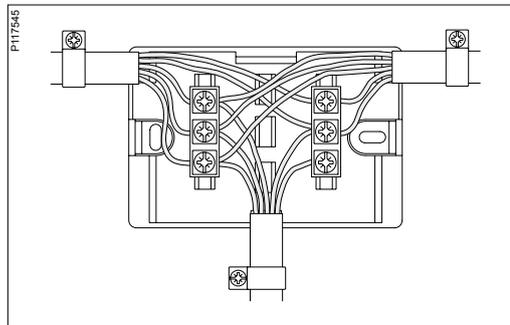
#### Examples

##### K60 box

K60 can be connected with TORIX or with a 5-pole screw terminal.



Junction box K90 connected with TORIX twist-on connectors.

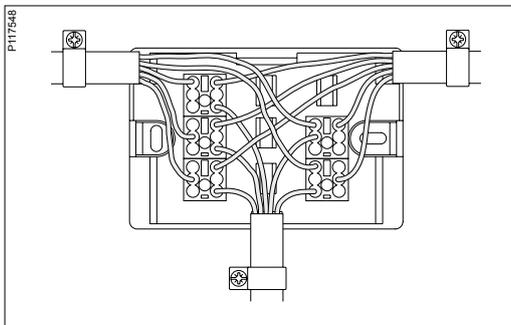


Junction box K90 connected with two 3-pole screw terminals.

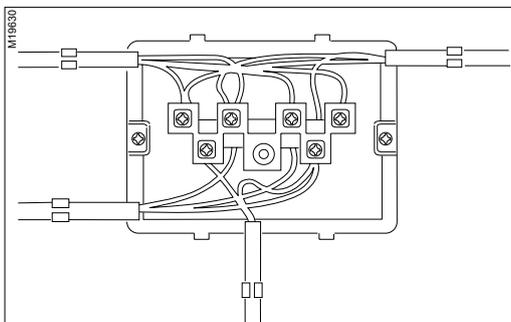
#### Examples

##### K90 box

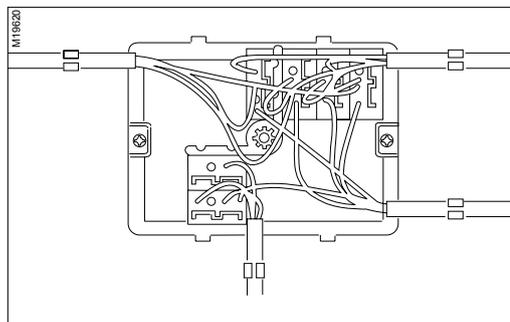
K90 can be connected with TORIX, with pre-assembled 2x3-pole screw terminals or with five push-in terminals.



Junction box K90 connected with five push-in terminals.



TED-002 connected with screw terminal TED-KP18.



TED-002 connected with push-in terminal.

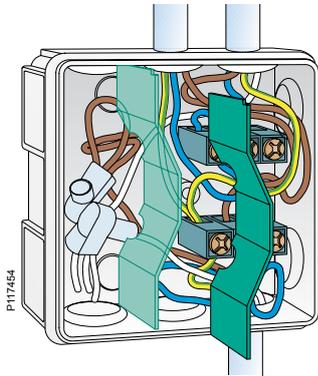
#### Examples

##### TED boxes

TED boxes can be connected with push-in terminal, screw terminal or TORIX. It's your choice!

# Mounting and connection examples

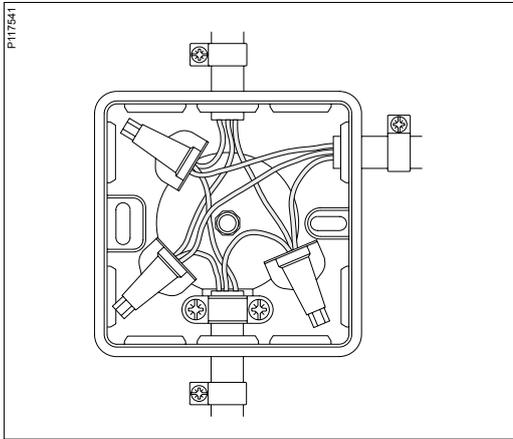
## U56 boxes



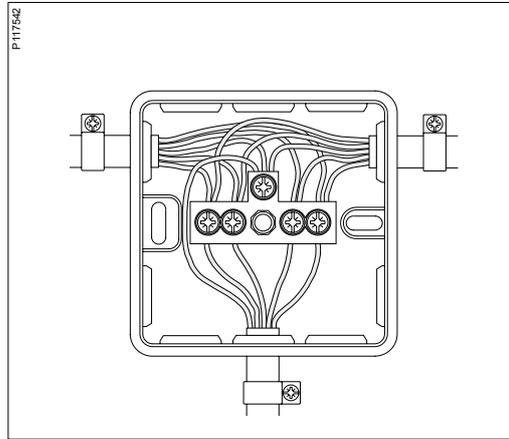
### Mounting of a partition wall in the U56 box

The partition wall should be threaded onto the centre pillar of the box, locked between the grommets. The strain relief device IMT36084 can be used but encroaches slightly on the space for connections. The terminal plate IMT36088 and the screw terminal IMT36089, or alternatively the push-in terminal WDE000010, may well be used together with the partition wall.

If mains cables and low voltage cables enter or leave the box through the same entrance or exit, a passage should be cut open in the lower edge of the partition wall. A suitable tool is the cutting pliers IMT36108.



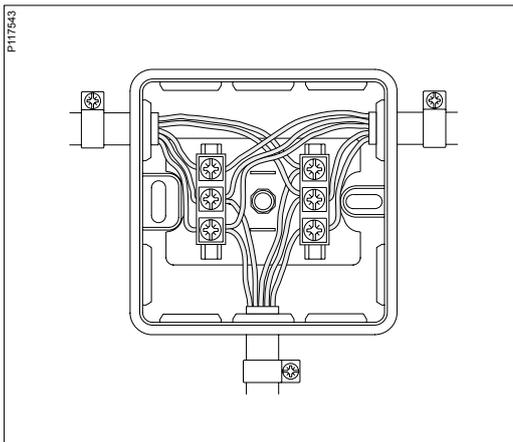
U56 box with strain relief device and connected with TORIX twist-on connectors.



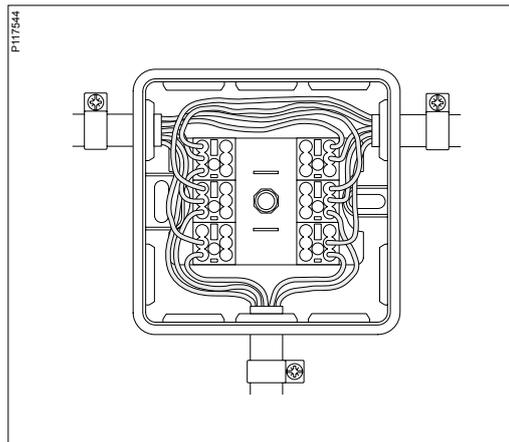
U56 box connected with a 5-pole screw terminal.

### Examples U56 box

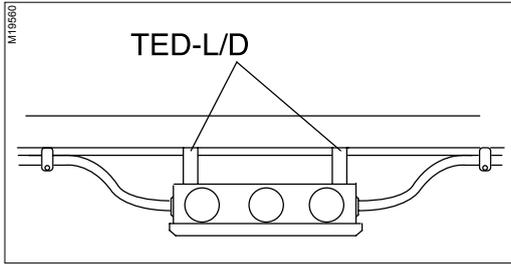
The U56 box can be connected with TORIX, with a pre-assembled 5-pole screw terminal, with 2x3-pole screw terminals or with six push-in terminals. The U56 box can be provided with up to two strain relief devices.



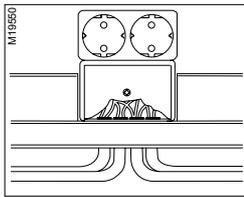
U56 box connected with two 3-pole screw terminals.



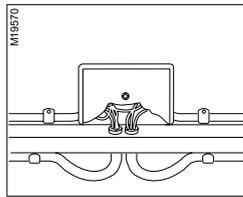
U56 box connected with six push-in terminals.



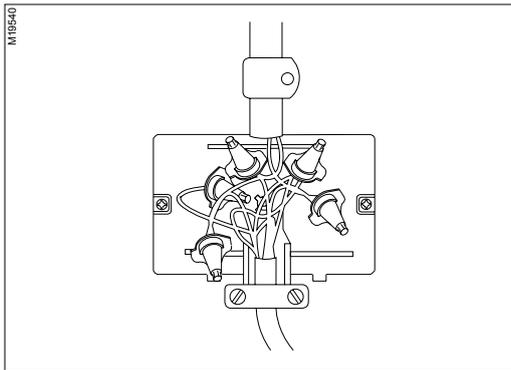
Wire bracket/spacer TED-L/D should be used if cables need to pass the box.



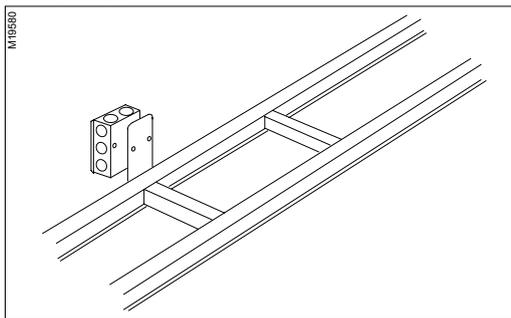
Transition between conduits and a surface mounted cable.



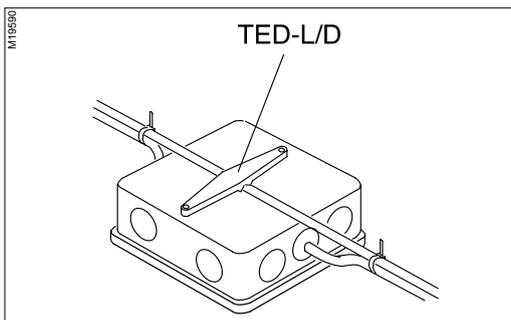
Box mounted on a skirting with conduits from below.



Strain relief device for rubber cable, to be used outside or inside the box.



Standing installation on the side of the ladder.



Use the wire bracket/spacer TED-L/D for installations on wire.

### Fixing elements

For the mounting of Mureva surface mounted boxes we recommend the following fixing material:

- TGS wood screw for wood, fibreboards and for mounting with wall plugs.
- TST collar screw for sheet steel (can be used in 2 mm without pilot drilling) and for mounting with wall plugs.
- TSB collar screw for sheet steel 2x1.5 mm. Self-tapping screw with drill point for steel or sheet steel.
- TP wall plug or TPS nail plug for concrete, stone, low density concrete, expanded clay, hollow bricks and blocks, solid bricks and plasterboard.
- Use the long 1/4" magnetic socket for TST and TSB.
- Long screw bits makes the mounting of Mureva junction boxes easier.

### Strain relief

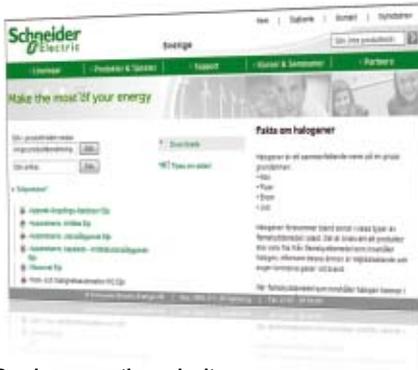
The strain relief device TED-DAV is suitable for all surface mounted junction boxes and can be installed both outside and inside the box.

### Mounting on ladder or tray

Junction box U56 with pre-assembled cable-tray plate is to be used for mounting on ladder or tray. A box plate made by for instance Wibe could also be used. The boxes can be fixed either standing or hanging.

### Mounting on wire

By using the wire bracket/spacer TED-L/D you can mount, TED-012 and TED-022 on a wire. The bracket is screw-fixed to the boxes through their screw notches.



#### Read more on the web site

You will find more information about halogen-free products and other environmental facts on our web site, [www.schneider-electric.se](http://www.schneider-electric.se)

## What are halogens?

Halogens are formed when certain specific elements are being mixed. They are fluorine, chlorine, bromine and iodine. These salts and minerals do no harm when they occur one by one, in small amounts and in their natural places. Quite the contrary, they are really needed for various chemical processes in the earth crust and in the oceans. But ever since halogens became frequent as flame retardants in electric products, their harmful effects have become obvious. Like lead, halogens are absorbed and stored by all living organisms, and they decompose just as slowly and are extremely toxic.

## Why are they dangerous?

Experiments on animals have shown that bromated flame retardants can have an effect on sex hormones and thyroxines. This may result in metabolic disturbance, learning difficulties, impaired memory and injuries to the liver, the skin and the central nervous system. Before 1960 no halogens were in use, and studies show that there was no occurrence of PBDE (halogens) in the blood of humans at the time. But today the content of PBDE is doubled every fifth year in both humans and wild animals.

## 100% halogen-free is the choice for us!

We take you, your health and our environment just as seriously as the products that we produce and sell. Therefore, as early as in 2004 Schneider Electric decided to immediately stop using flame retardants containing halogens. However, other companies have decided to phase out their use.

## List of web links

1. Flame Retardants: Alarming Increases in Humans and the Environment, [www.noharm.org](http://www.noharm.org), January 2006  
Link to the web: <http://209.85.229.132/search?q=cache:4OcOkQRVhcMJ:www.noharm.org/details.cfm%3FID%3D1098+halogenated+flame+retardants&cd=3&hl=sv&ct=clnk&gl=se>
2. A Research Front Map INTERVIEW with Dr. Per Ola Darnerud, August 2007  
Link to the web: <http://www.esi-topics.com/pbde/interviews/RF-PerOlaDarnerud.html>
3. RoHS, Restriction on Hazardous Substances, EU-directive, The RoHS regulation (Directive 2002/95/EC)  
Link to the web: [http://ec.europa.eu/environment/waste/weee/index\\_en.htm](http://ec.europa.eu/environment/waste/weee/index_en.htm)
4. WEEE, Waste Electrical and Electronic Equipment, (Directive 2002/96/EC)  
Link to the web: [http://ec.europa.eu/environment/waste/weee/index\\_en.htm](http://ec.europa.eu/environment/waste/weee/index_en.htm)
5. REACH, Registration Evaluation Authorisation and Restriction of Chemicals, regulation EG/1907/2006 of the EU parliament  
Link to the web: [http://ec.europa.eu/enterprise/reach/index\\_en.htm](http://ec.europa.eu/enterprise/reach/index_en.htm)
6. Underwriters Laboratories: EU Bans on Halogenated Flame Retardants in 2006  
Link to the web: [http://www.ul-asia.com/news\\_nl/2003-Issue08/page8.htm](http://www.ul-asia.com/news_nl/2003-Issue08/page8.htm)

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