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SCHALTBAU
Connect Contact Control

SCHALTBAU CONNECTORS

Schaltbau GmbH develops and manufactures reliable, durable electromechanical components and customer-specific solutions for railways and industry.

The company was founded in Munich in 1929. Core functions such as sales & marketing, R&D, competence centre, HR and administration are located at the Munich site. In addition, the company has two production sites in Bavaria, at Aldersbach in the Passau district, and at Velden in the Landshut district.

The individual components of Schaltbau products are manufactured at Aldersbach. Almost all of Schaltbau's products are assembled at Velden, and other tasks such as logistics, quality assurance, fault analysis & testing, service & repair, and industrial engineering are carried out there.

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LV Series

The Schaltbau LV Series connectors are especially designed to meet the demands of modern materials handling vehicles. They exceed the requirements of standard EN 1175-1 in many of their features. There is an option for chargers with electrolyte circulation system.

Like all LV Series connectors, also this option is intermateable with all standard commercial charging connectors. Available as 80, 160, 320 and 500 amp connector.
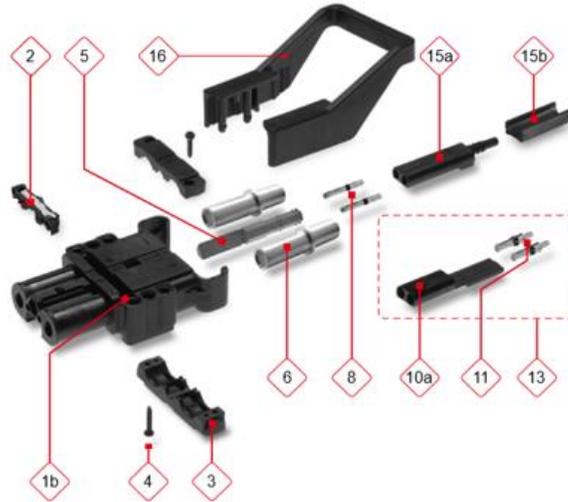
LV80/120

LV160/250
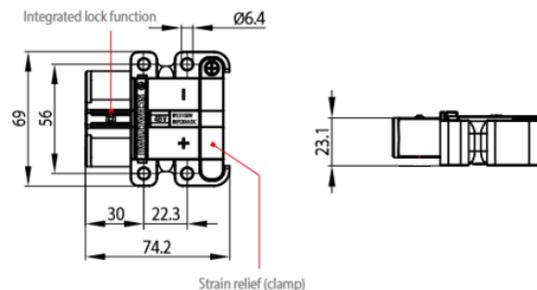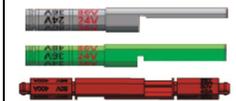

LV320

LV500

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LV80/120

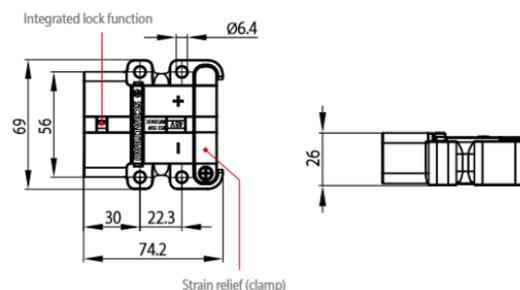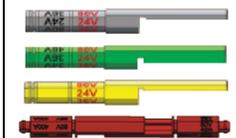| Female connector		
Item	**Ordering code**	**Description**
1b	LV80/120 G-SP	Housing Shell LV80/120 - Female, incl. pilot contact adapter (10a)
2	LV80/120 S	Locking Part "Schaltbau" for SCHALTBAU DIN 80
3	LV80 D	Cable Clamp LV80
4	LV SC 3.5X16	Tapping Screw SC 3.5x16 for cable clamp LV 80
5	LV80-N-GR	Coding Pin SCHALTBAU DIN 80 – gray
	LV80-T-GN	Coding Pin SCHALTBAU DIN 80 – green
	LV120-N-R-S	Coding Pin SCHALTBAU DIN 120 – red
6	LV80/120 S6/25	Main Contact SCHALTBAU DIN 80 Female - 25 mm²
	LV80 S6/35	Main Contact SCHALTBAU DIN 80 Female - 35 mm²
8/11	LV80 BBC-2.5-AG	Auxiliary/pilot contact SCHALTBAU DIN 80 Female
13	LV80 P-S/S	Pilot Contact SCHALTBAU DIN 80 Female - 2 pieces, incl adapter (10a)
15a	LV80 LV-S	Air Adapter SCHALTBAU DIN 80 Female
15b	LV80 DS-L	Spacer LV80

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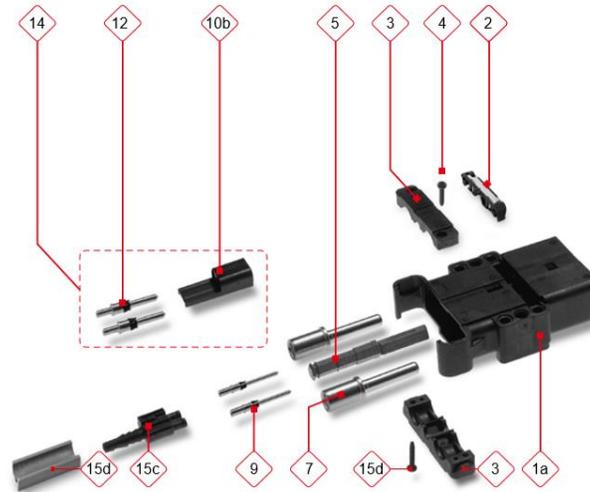
Male connector		
Item	**Ordering code**	**Description**
1a	LV80/120 G-P	Housing Shell LV80/120 - Male
2	LV80 S	Locking Part "Schaltbau" for SCHALTBAU DIN 80
3	LV80 D	Cable Clamp LV80
4	LV SC 3.5X16	Tapping Screw SC 3.5x16 for cable clamp LV 80
5	LV80-N-GR	Coding Pin SCHALTBAU DIN 80 – gray
	LV80-T-GN	Coding Pin SCHALTBAU DIN 80 – green
	LV80-U-GE	Coding Pin SCHALTBAU DIN 80 – yellow (universal)
	LV120-N-R-P	Coding Pin SCHALTBAU DIN 120 – red
7	LV80 P6/25	Main Contact SCHALTBAU DIN 80 Male - 25 mm²
	LV80 P6/35	Main Contact SCHALTBAU DIN 80 Male - 35 mm²
9/12	LV80 SBC-2.5-AG	Auxiliary/pilot Contact SCHALTBAU DIN 80 Male
14	LV80 P-P/S	Pilot Contact SCHALTBAU DIN 80 Male - 2 pieces, incl adapter (10b)
15c	LV80 LV-P	Air Adapter SCHALTBAU DIN 80 Male
15d	N.A.	Not applicable on LV80/120

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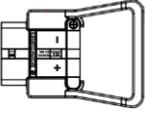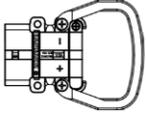On-time delivery
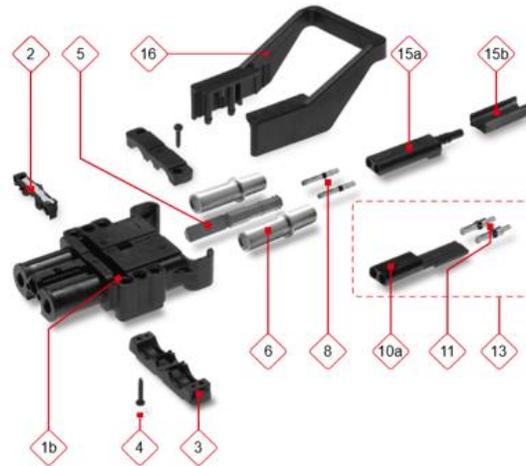Independent technical advice

SCHALTBAU
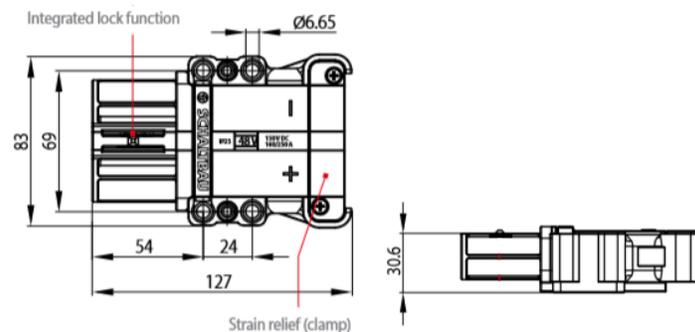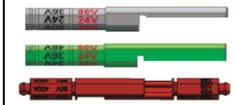Connect Contact Control

Ordering code

Example:
LV80/120-R-S25-0-2-L0-H3

Series:
LV80/120

Keying plug:
R – Red
N – Gray
T – Green
U – Yellow (universal)

Main contacts:
P25 – Pin 25mm²
P16 – Pin 16 mm² *
P10 – Pin 10 mm² *
S25 – Socket 25 mm²
S16 – Socket 16 mm² *
S10 – Socket 10 mm² *
*Contact supplied with reducer

Pilot contacts:
0 – None
2 – 2 pilot contacts

Aux. contacts:
0 – None
2 – 2 aux. contacts

Air tube adapter:
L0 – None
L1 – Air tube adapter

Handle:
H0 – None
H1 – Black, snap on
H2 – Red, snap on
H1/S – Black, screw on
H2/S – Red, screw on

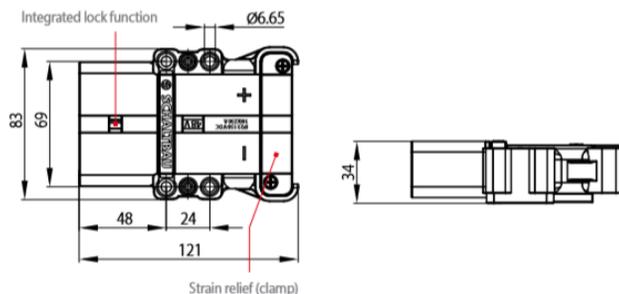| Accessories		
Picture	**Ordering code**	**Description**
	LV RH-25/10 LV RH-25/16	Reducing Bushing SCHALTBAU 25 mm² - 10 mm² Reducing Bushing SCHALTBAU 25 mm² - 16 mm²
	LV80 H1 LV80 H2	Snap-on Handle SCHALTBAU LV 80 - **black** Snap-on Handle SCHALTBAU LV 80 - **red**
	LV80 H1/S LV80 H2/S	Handle SCHALTBAU DIN 80 with 2 Screws– **black** Handle SCHALTBAU DIN 80 with 2 Screws– **red**

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SCHALTBAU
Connect Contact Control

LV160/250

Female connector		
Item	Ordering code	Description
1b	LV160/250 G-SP	Housing Shell LV160/250 - Female, incl. pilot contact adapter (10a)
2	LV160/250 S	Locking Part "Schaltbau" for SCHALTBAU DIN 160
3	LV160/250 D	Cable Clamp LV160/250
4	LV SC 3.5X19	Tapping Screw SC 3.5x19 for cable clamp LV 160/320
5	LV160/320-N-GR LV160/320-T-GN LV250/400-N-R-S	Coding Pin SCHALTBAU DIN 160/320 – gray Coding Pin SCHALTBAU DIN 160/320 – green Coding Pin SCHALTBAU DIN 250/400 – red
6	LV160/250 S8.5/50	Main Contact SCHALTBAU DIN 160 Female - 50 mm2
9	LV160 BBC-2.5-AG	Auxiliary Contact SCHALTBAU DIN 160 Female
11	BCC-2.5-AG	Pilot Contact SCHALTBAU LV160/320 Female
13	LV160/320 P-S/S	Pilot Contact SCHALTBAU DIN 160/320 Female - 2 pieces, incl adapter (10a)
15a	LV160/320 LV-S	Air Adapter SCHALTBAU DIN 160/320 Female
15b	LV160/320 DS-LS	Spacer LV160/320

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SCHALTBAU
Connect Contact Control

Male connector		
Item	Ordering code	Description
1a	LV160/250 G-P	Housing Shell LV160/250 - Male
2	LV160/250 S	Locking Part "Schaltbau" for SCHALTBAU DIN 160
3	LV160/250 D	Cable Clamp LV160/250
4	LV SC 3.5X19	Tapping Screw SC 3.5x19 for cable clamp LV 160/320
5	LV160/320-N-GR LV160/320-T-GN LV160/320-U-GE LV250/400-N-R-P	Coding Pin SCHALTBAU DIN 160/320 – gray Coding Pin SCHALTBAU DIN 160/320 – green Coding Pin SCHALTBAU DIN 160/320 – yellow (universal) Coding Pin SCHALTBAU DIN 250/400 – red
7	LV160 P8.5/50	Main Contact SCHALTBAU DIN 160 Male - 50 mm²
9	LV160 SBC-2.5-AG	Auxiliary Contact SCHALTBAU DIN 160 Male
12	SCC-2.5-AG	Pilot Contact SCHALTBAU LV160/320 Male
14	LV160/320 P-P/S	Pilot Contact SCHALTBAU DIN 160/320 Male - 2 pieces, incl adapter (10b)
15c	LV160/320 LV-P	Air Adapter SCHALTBAU DIN 160/320 Male
15d	LV160/320 DS-LP	Spacer LV160/320

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Ordering code

Example:
LV160/250-R-S25-0-2-L0-H3

Series:
LV160/250
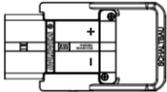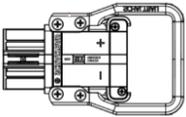
Keying plug:
R – Red
N – Gray
T – Green
U – Yellow (universal)

Main contacts:
P50 – Pin 50mm²
P35 – Pin 35 mm² *
P25 – Pin 25 mm² *
S50 – Socket 50 mm²
S35 – Socket 35 mm² *
S25 – Socket 25 mm² *
*Contact supplied with reducer
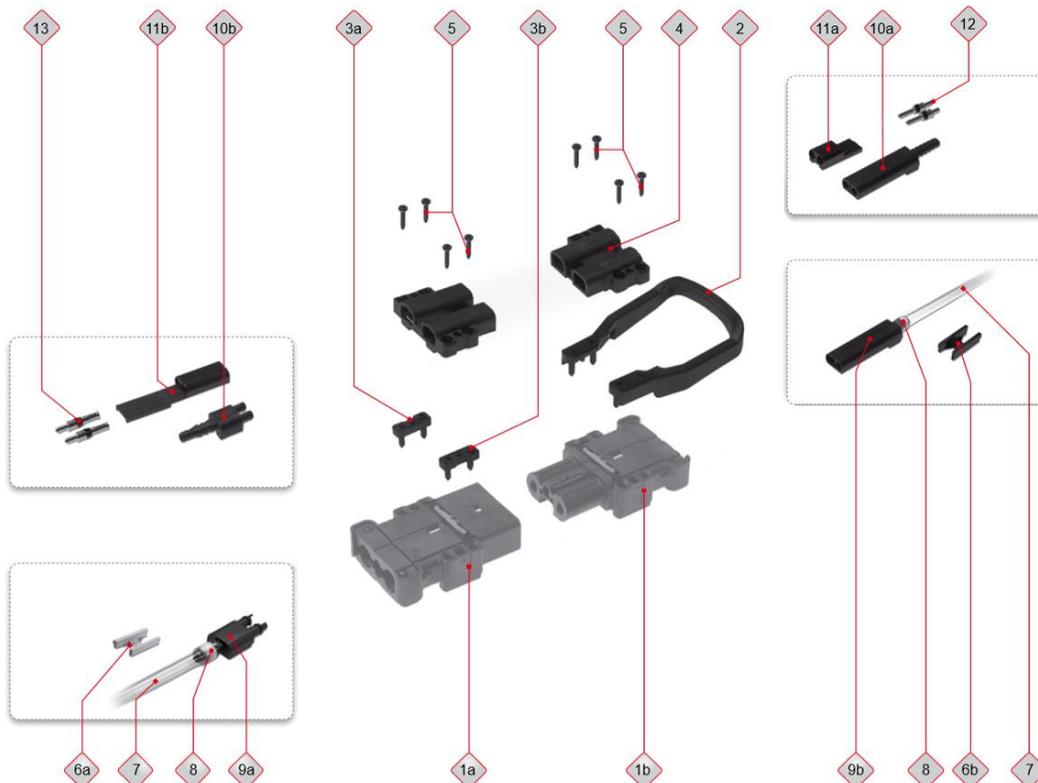
Pilot contacts:
0 – None
2 – 2 pilot contacts

Aux. contacts:
0 – None
2 – 2 aux. contacts
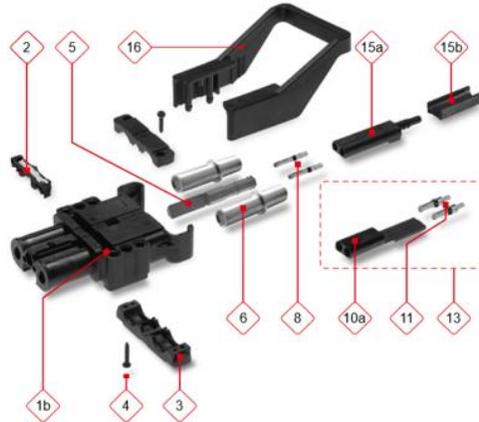
Air tube adapter:
L0 – None
L1 – Air tube adapter

Handle:
H0 – None
H1/S – Black, screw on
H2/S – Red, screw on
H3 – Black, snap on
H4 – Red, snap on

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Accessories		
Picture	**Ordering code**	**Description**
	LV RH-50/25 LV RH-50/35	Reducing Bushing SCHALTBAU 50 mm² - 25 mm² Reducing Bushing SCHALTBAU 50 mm² - 35 mm²
	LV160/320 H3 LV160/320 H4	Snap-on Handle SCHALTBAU LV 160/320 – **black** Snap-on Handle SCHALTBAU LV 160/320 – **red**
	LV160/320 H1/S LV160/320 H2/S	Handle SCHALTBAU LV 160/320 with screws – **black** Handle SCHALTBAU LV 160/320 with screws – **red**
	Multifunctional adapters for LV160/320/500	See drawing and table below

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SCHALTBAU
Connect Contact Control

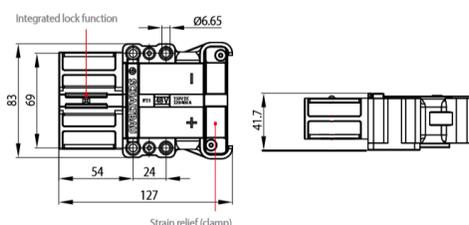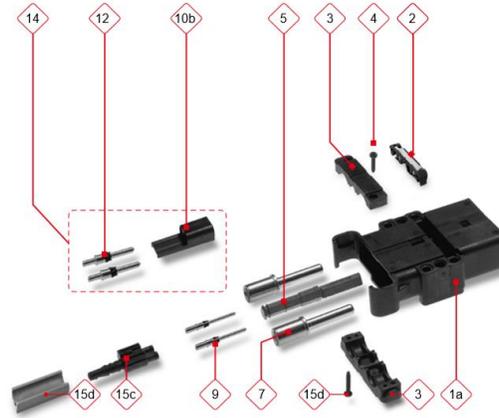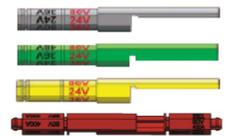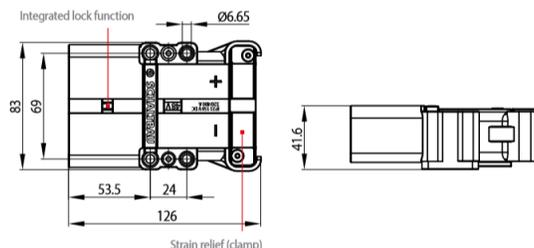|	Accessories	
Picture	Ordering code	Description
	LV160/320 HW1 LV160/320 HW2	Handle for SCHALTBAU DIN 160/320 when central water module support is used, **black** Handle for SCHALTBAU DIN 160/320 when central water module support is used, **red**
	LV160/320 MA-L LV160/320 MA-R	Distance Piece Left Distance Piece Right
	LV160/320 MT-M	Auxiliary Module Support SCHALTBAU DIN 160/320 for central mounting
	LV SC 5.5X25	Tapping Screw SC 5,5x25 - black, galvanized
	LV160/320 DS-WP	Distance Piece for water module – Male
	LV160/320 DS-WS	Distance Piece for water module – Female
	LV160/320 WK-P	Water Module with tube SCHALTBAU DIN 160/320 and plug (incl pos 7 and 8)
	LV160/320 WK-S	LV Multifunctional Adapter Female with tube and plug (incl pos 7 and 8)
	LV160/320 LV-P	Air Adapter SCHALTBAU DIN 160/320 Male
	LV160/320 LV-S	Air Adapter SCHALTBAU DIN 160/320 Female
	LV160/320 PA-P	Pilot Contact Adapter LV 160/320 Male
	LV160/320 PA-SW	Pilot Contact Adapter SCHALTBAU DIN 160/320 Female
	SCC-2.5-AG	Pilot Contact LV 160/320 Male
	BCC-2.5-AG	Pilot Contact LV 160/320 Female

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SCHALTBAU
Connect Contact Control

LV320/400

Female connector		
Item	Ordering code	Description
1b	LV320/400 G-SP	Housing Shell LV320/400 - Female, incl. pilot contact adapter (10a)
2	LV320/400 S	Locking Part "Schaltbau" for SCHALTBAU DIN 320/400
3	LV320 D	Cable Clamp LV320/400
4	LV SC 3.5X19 LV SC 3.5X25	Tapping Screw SC 3.5x19 for cable clamp LV 160/320 Tapping Screw SC 3.5x25 for cable clamp LV 320 95mm²
5	LV160/320-N-GR LV160/320-T-GN LV250/400-N-R-S	Coding Pin SCHALTBAU DIN 160/320 – gray Coding Pin SCHALTBAU DIN 160/320 – green Coding Pin SCHALTBAU DIN 250/400 – red
6	LV500 S10/AWG4/0 LV320 S10/95 LV320 S10/70 LV320 S10/50	Main Contact SCHALTBAU DIN 500 Female – 120mm² Main Contact SCHALTBAU DIN 320 Female – 95 mm² Main Contact SCHALTBAU DIN 320 Female – 70 mm² Main Contact SCHALTBAU DIN 320 Female – 50 mm²
9	LV320 BCC-2.5-AG	Auxiliary Contact SCHALTBAU DIN 320 Female
11	BCC-2.5-AG	Pilot Contact SCHALTBAU LV160/320 Female
13	LV160/320 P-S/S	Pilot Contact SCHALTBAU DIN 160/320 Female - 2 pieces, incl adapter (10a)
15a	LV160/320 LV-S	Air Adapter SCHALTBAU DIN 160/320 Female
15b	LV160/320 DS-LS	Spacer LV160/320

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Male connector		
Item	**Ordering code**	**Description**
1a	LV320/400 G-P	Housing Shell LV320/400 - Male
2	LV320/400 S	Locking Part "Schaltbau" for SCHALTBAU DIN 320/400
3	LV320 D	Cable Clamp LV320/400
4	LV SC 3.5X19 LV SC 3.5X25	Tapping Screw SC 3.5x19 for cable clamp LV 160/320 Tapping Screw SC 3.5x25 for cable clamp LV 320 95mm²
5	LV160/320-N-GR LV160/320-T-GN LV160/320-U-GE LV250/400-N-R-P	Coding Pin SCHALTBAU DIN 160/320 – gray Coding Pin SCHALTBAU DIN 160/320 – green Coding Pin SCHALTBAU DIN 160/320 – yellow (universal) Coding Pin SCHALTBAU DIN 250/400 – red
7	LV500 P10/AWG4/0 LV320 P10/95 LV320 P10/70 LV320 P10/50	Main Contact SCHALTBAU DIN 500 Male – 120mm² Main Contact SCHALTBAU DIN 320 Male – 95 mm² Main Contact SCHALTBAU DIN 320 Male – 70 mm² Main Contact SCHALTBAU DIN 320 Male – 50 mm²
9	LV320 SCC-2.5-AG	Auxiliary Contact SCHALTBAU DIN 320 Male
12	SCC-2.5-AG	Pilot Contact SCHALTBAU LV160/320 Male
14	LV160/320 P-P/S	Pilot Contact SCHALTBAU DIN 160/320 Male - 2 pieces, incl adapter (10b)
15c	LV160/320 LV-P	Air Adapter SCHALTBAU DIN 160/320 Male
15d	LV160/320 DS-LP	Spacer LV160/320

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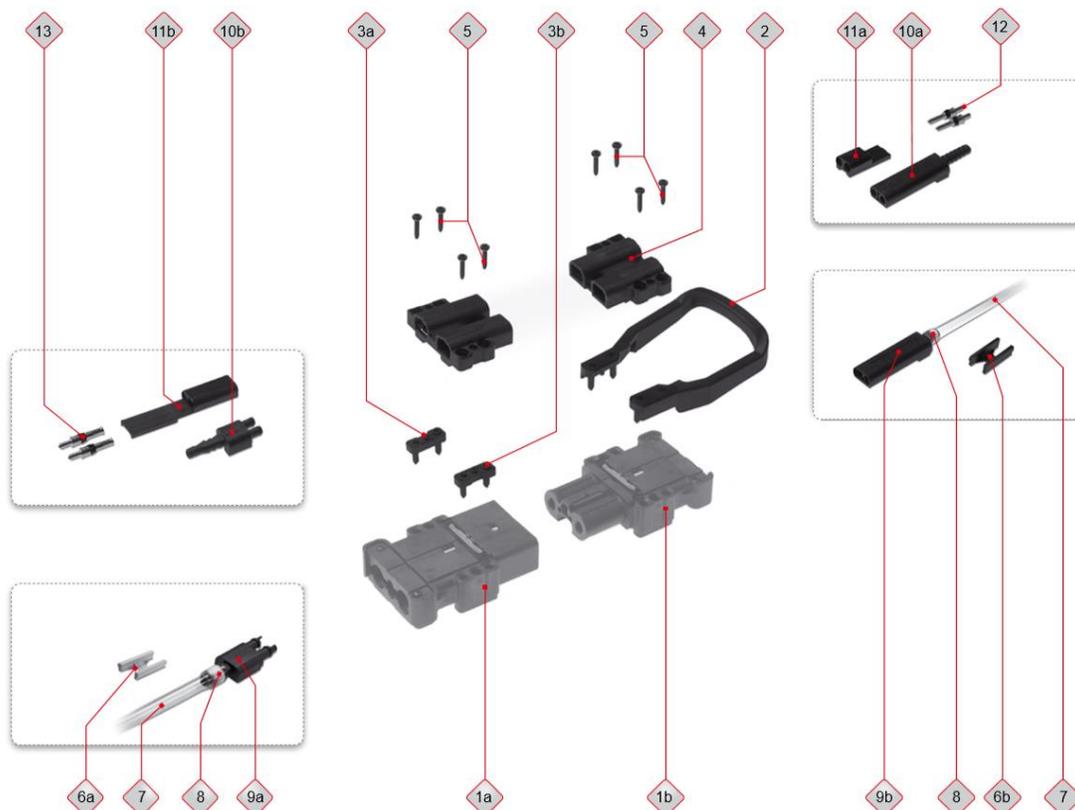Independent technical advice

SCHALTBAU
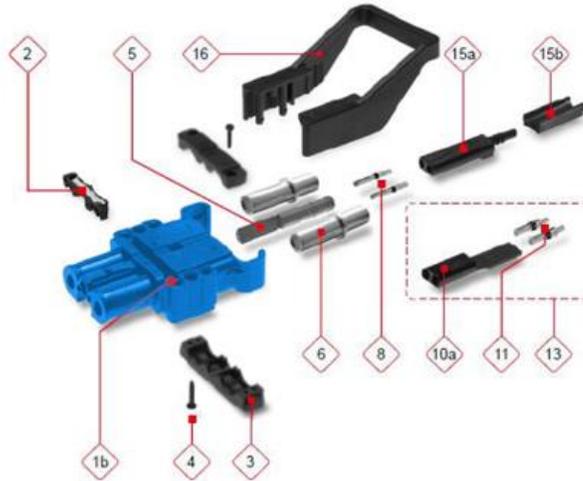Connect Contact Control

Ordering code

Example:
LV320/400-R-S50-0-2-L0-H3

Series:
LV320/400

Keying plug:
R – Red
N – Gray
T – Green
U – Yellow (universal)

Main contacts:
P4/0 – Pin 120 mm²
P95 – Pin 95mm²
P70 – Pin 70 mm²
P50 – Pin 50 mm²
S4/0 – Socket 120 mm²
S95 – Socket 95 mm²
S70 – Socket 70 mm²
S50 – Socket 50 mm²

Pilot contacts:
0 – None
2 – 2 pilot contacts

Aux. contacts:
0 – None
2 – 2 aux. contacts

Air tube adapter:
L0 – None
L1 – Air tube adapter

Handle:
H0 – None
H1/S – Black, screw on
H2/S – Red, screw on
H3 – Black, snap on
H4 – Red, snap on

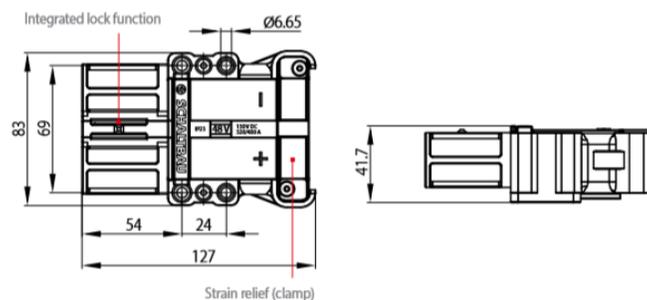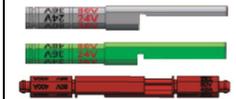| Accessories		
Picture	**Ordering code**	**Description**
	LV RH-70/50 LV RH-50/35	Reducing bushing SCHALTBAU 70 mm² - 50 mm² Reducing bushing SCHALTBAU 50 mm² - 35 mm²
	LV160/320 H3 LV160/320 H4	Snap-on handle SCHALTBAU LV 160/320 – **black** Snap-on handle SCHALTBAU LV 160/320 – **red**
	LV160/320 H1/S LV160/320 H2/S	Handle SCHALTBAU LV 160/320 with screws – **black** Handle SCHALTBAU LV 160/320 with screws – **red**
	Multifunctional adapters for LV160/320/500	See drawing and table below

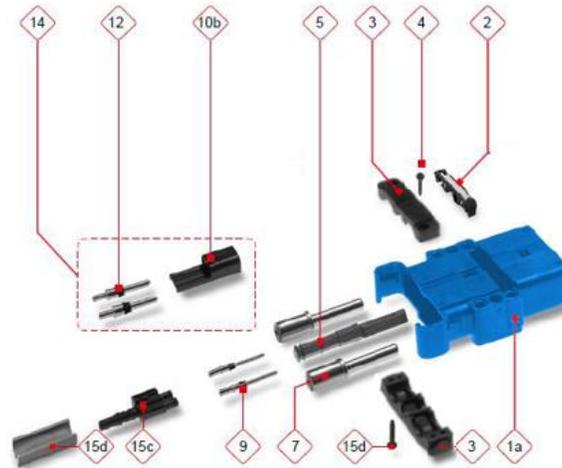| Accessories		
Picture	**Ordering code**	**Description**
	LV160/320 HW1 LV160/320 HW2	Handle for SCHALTBAU DIN 160/320 when central water module support is used, **black** Handle for SCHALTBAU DIN 160/320 when central water module support is used, **red**
	LV160/320 MA-L LV160/320 MA-R	Distance Piece Left Distance Piece Right
	LV160/320 MT-M	Auxiliary Module Support SCHALTBAU DIN 160/320 for central mounting
	LV SC 5.5X25	Tapping Screw SC 5,5x25 - black, galvanized
	LV160/320 DS-WP	Distance Piece for water module – Male
	LV160/320 DS-WS	Distance Piece for water module – Female
	LV160/320 WK-P	Water Module with tube SCHALTBAU DIN 160/320 and plug (incl pos 7 and 8)
	LV160/320 WK-S	LV Multifunctional Adapter Female with tube and plug (incl pos 7 and 8)
	LV160/320 LV-P	Air Adapter SCHALTBAU DIN 160/320 Male
	LV160/320 LV-S	Air Adapter SCHALTBAU DIN 160/320 Female
	LV160/320 PA-P	Pilot Contact Adapter LV 160/320 Male
	LV160/320 PA-SW	Pilot Contact Adapter SCHALTBAU DIN 160/320 Female
	SCC-2.5-AG	Pilot Contact LV 160/320 Male
	BCC-2.5-AG	Pilot Contact LV 160/320 Female

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SCHALTBAU
Connect Contact Control

LV500

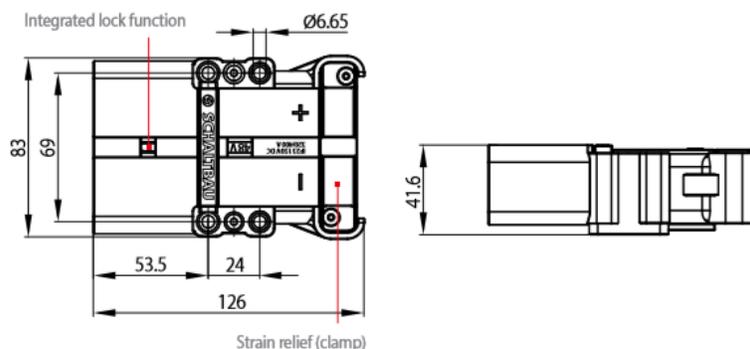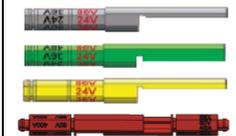| Female connector		
Item	**Ordering code**	**Description**
1b	LV500 G-S	Housing Shell LV500 - Female, incl. pilot contact adapter (10a)
2	LV320/400 S	Locking Part "Schaltbau" for SCHALTBAU DIN 320/400
3	LV500 D	Cable Clamp LV500
4	LV SC 3.5X25	Tapping Screw SC 3.5x25 for cable clamp LV 320 95mm²
5	LV160/320-N-GR LV160/320-T-GN LV250/400-N-R-S	Coding Pin SCHALTBAU DIN 160/320 – gray Coding Pin SCHALTBAU DIN 160/320 – green Coding Pin SCHALTBAU DIN 250/400 – red
6	LV500 S10/AWG4/0	Main Contact SCHALTBAU DIN 500 Female – 120mm²
8	LV320 BCC-2.5-AG	Auxiliary Contact SCHALTBAU DIN 320 Female
11	BCC-2.5-AG	Pilot Contact SCHALTBAU LV160/320 Female
13	LV160/320 P-S/S	Pilot Contact SCHALTBAU DIN 160/320 Female - 2 pieces, incl adapter (10a)
15a	LV160/320 LV-S	Air Adapter SCHALTBAU DIN 160/320 Female
15b	LV160/320 DS-LS	Spacer LV160/320

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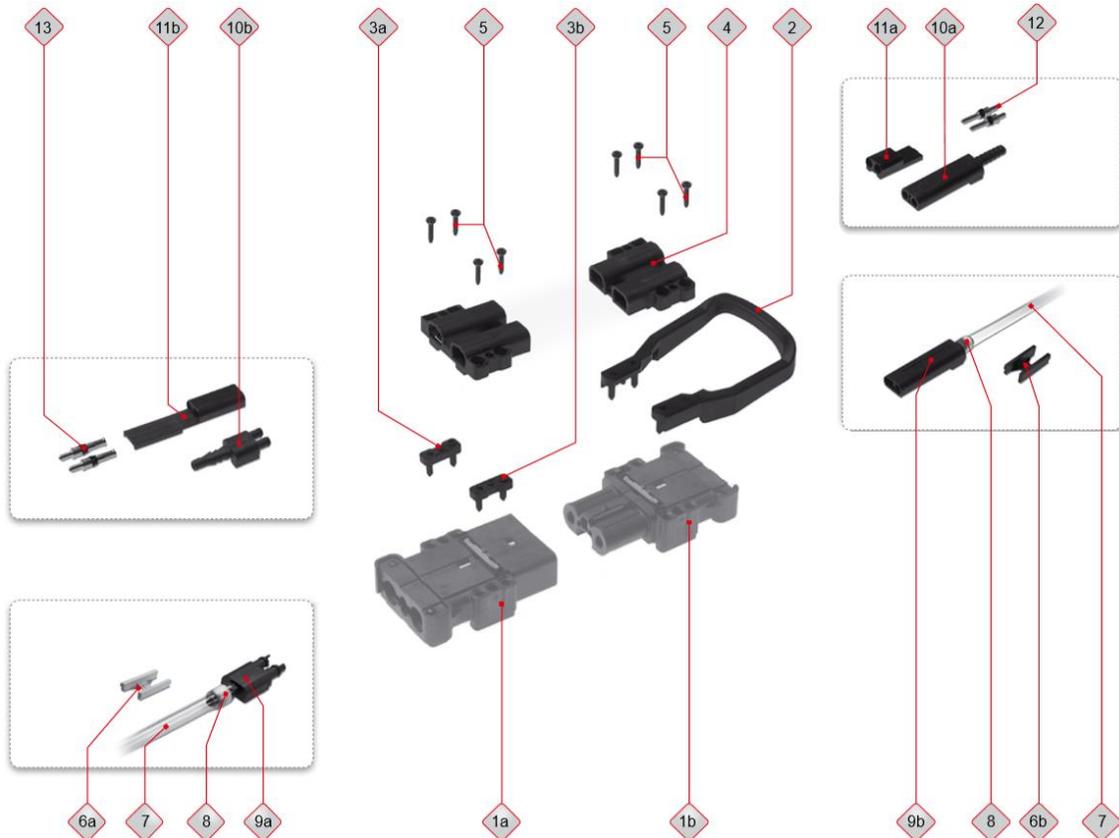| Male connector		
Item	Ordering code	Description
1a	LV500 G-P	Housing Shell LV500 - Male
2	LV320/400 S	Locking Part "Schaltbau" for SCHALTBAU DIN 320/400
3	LV500 D	Cable Clamp LV320/400
4	LV SC 3.5X25	Tapping Screw SC 3.5x25 for cable clamp LV 320 95mm²
5	LV160/320-N-GR LV160/320-T-GN LV160/320-U-GE LV250/400-N-R-P	Coding Pin SCHALTBAU DIN 160/320 – gray Coding Pin SCHALTBAU DIN 160/320 – green Coding Pin SCHALTBAU DIN 160/320 – yellow (universal) Coding Pin SCHALTBAU DIN 250/400 – red
7	LV500 P10/AWG4/0	Main Contact SCHALTBAU DIN 500 Male – 120mm²
9	LV320 SCC-2.5-AG	Auxiliary Contact SCHALTBAU DIN 320 Male
12	SCC-2.5-AG	Pilot Contact SCHALTBAU LV160/320 Male
14	LV160/320 P-P/S	Pilot Contact SCHALTBAU DIN 160/320 Male - 2 pieces, incl adapter (10b)
15c	LV160/320 LV-P	Air Adapter SCHALTBAU DIN 160/320 Male
15d	LV160/320 DS-LP	Spacer LV160/320

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SCHALTBAU
Connect Contact Control

Ordering code
Example:
LV500-0-S4/0-0-2-L0-H3

Series:
LV500

Keying plug:
0 – None
R – Red
N – Gray
T – Green
U – Yellow (universal)

Main contacts:
P4/0 – Pin 120 mm²
S4/0 – Socket 120 mm²

Pilot contacts:
0 – None
2 – 2 pilot contacts

Aux. contacts:
0 – None
2 – 2 aux. contacts

Air tube adapter:
L0 – None
L1 – Air tube adapter

Handle:
H0 – None
H1/S – Black, screw on
H2/S – Red, screw on
H3 – Black, snap on
H4 – Red, snap on

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Accessories

Picture	Ordering code	Description
	LV160/320 H3 LV160/320 H4	Snap-on handle SCHALTBAU LV 160/320 – **black** Snap-on handle SCHALTBAU LV 160/320 – **red**
	LV160/320 H1/S LV160/320 H2/S	Handle SCHALTBAU LV 160/320 with screws – **black** Handle SCHALTBAU LV 160/320 with screws – **red**
	Multifunctional adapters for LV160/320/500	See drawing and table below

Accessories		
Picture	**Ordering code**	**Description**
	LV160/320 HW1 LV160/320 HW2	Handle for SCHALTBAU DIN 160/320 when central water module support is used, **black** Handle for SCHALTBAU DIN 160/320 when central water module support is used, **red**
	LV160/320 MA-L LV160/320 MA-R	Distance Piece Left Distance Piece Right
	LV160/320 MT-M	Auxiliary Module Support SCHALTBAU DIN 160/320 for central mounting
	LV SC 5.5X25	Tapping Screw SC 5,5x25 - black, galvanized
	LV160/320 DS-WP	Distance Piece for water module – Male
	LV160/320 DS-WS	Distance Piece for water module – Female
	LV160/320 WK-P	Water Module with tube SCHALTBAU DIN 160/320 and plug (incl pos 7 and 8)
	LV160/320 WK-S	LV Multifunctional Adapter Female with tube and plug (incl pos 7 and 8)
	LV160/320 LV-P	Air Adapter SCHALTBAU DIN 160/320 Male
	LV160/320 LV-S	Air Adapter SCHALTBAU DIN 160/320 Female
	LV160/320 PA-P	Pilot Contact Adapter LV 160/320 Male
	LV160/320 PA-SW	Pilot Contact Adapter SCHALTBAU DIN 160/320 Female
	SCC-2.5-AG	Pilot Contact LV 160/320 Male
	BCC-2.5-AG	Pilot Contact LV 160/320 Female

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Conversion table	
10 mm²	8 AWG
16 mm²	6 AWG
25 mm²	4 AWG
35 mm²	2 AWG
50 mm²	1/0 AWG
70 mm²	2/0 AWG
95 mm²	3/0 AWG
120 mm²	4/0 AWG
150 mm²	300 MCM
240 mm²	500 MCM