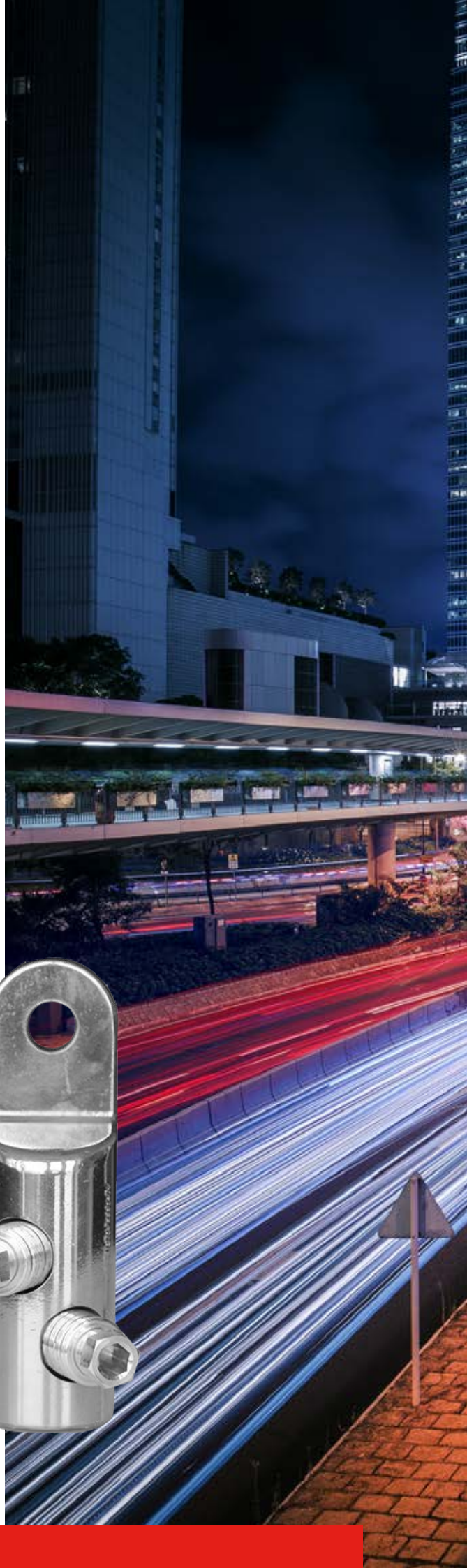
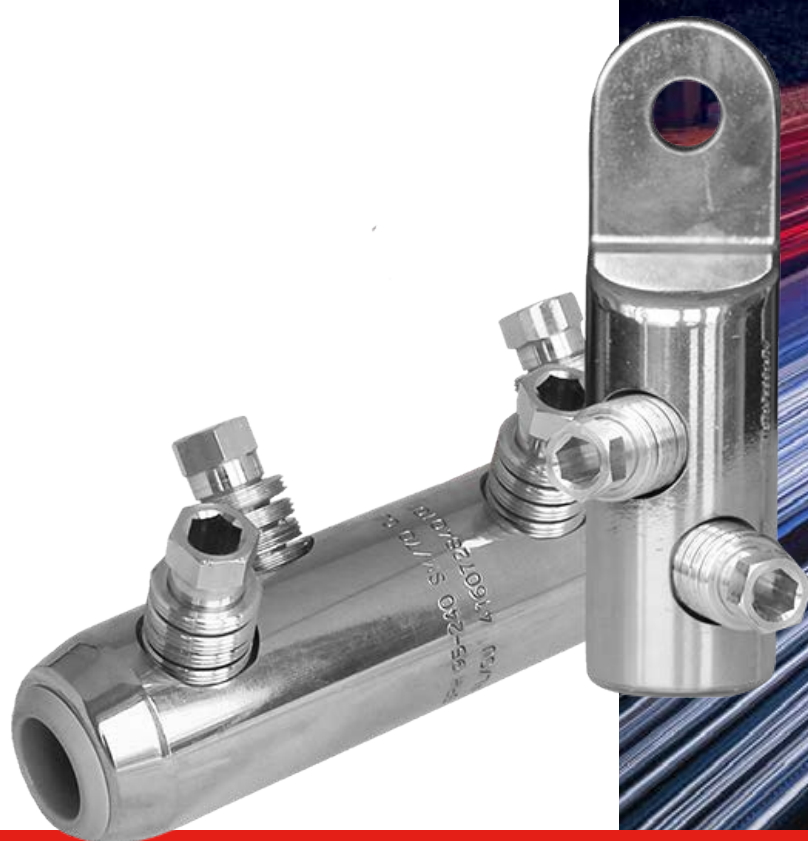




A long-exposure photograph of a city at night. In the foreground, a multi-lane highway is filled with light trails from cars, creating a sense of motion. The background features several tall, modern skyscrapers with illuminated windows, set against a dark night sky. The overall scene conveys a sense of a busy, modern urban environment.

GPH®
CONNECTION TECHNOLOGY
up to 52 kV

GPH® D-SERIES

Mechanical Connectors up to 0.6/1 kV

with sector channel, hexagon socket bolts or shear-off-head bolts

Application

Using GPH® D-Series low voltage mechanical connectors allows the connection of both identical and different conductor cross-sections, irrespective of the conductor material, shape and design.

Advantages

- **Simple, quick installation:**
With common commercially available inner and outer hexagon tools or an approved impact wrench.
- **Minimum storage costs:**
The cross-section range from 1.5 mm² to 300 mm² is covered by just 3 types of connectors.

Universal applicability:

Can be used for copper and aluminum conductors according to EN 60228 classes 1 & 2. For use with flexible copper conductors class 5, please contact us.

Proven quality:

GPH® D-Series mechanical connectors allow long-lasting contact quality of the application.

Design

Material:

Connector body: brass or high strength aluminum alloy
Bolts: brass or high strength aluminum alloy, tin-plated, with inner and outer hexagon

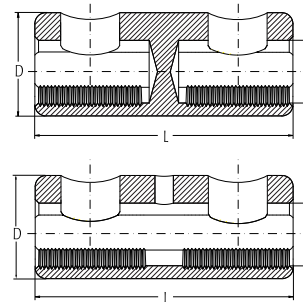
Surface:

D ...-V: tin-plated

D25-185 SV-T-V-K



D1,5-16 SV-S-V-K



Bolts:

D ...: with hex. socket bolts
D ...-K: with shear-off-head bolts

Connector body:

D ...-S: with inspection hole
D ...-T: with oil stop

Mechanical connector type	AL acc. to EN 60228 (mm ²)				CU acc. to EN 60228 (mm ²)			CU Class 5 acc. to EN 60228 (mm ²)		Dimensions (mm)			Tool outer and inner hexagon	
	rm	sm	re	se	rm	sm	re	without contact sleeve	with contact sleeve	L	D	d	shear-off-head bolt	hexagon socket bolt
D1,5-16 SV(-T/-S)-V-K ^{1), 3)}	10-16		10-16		1.0-16		1.0-16	1.0-16		30	12	6.1	SW8	
D1,5-16 SV(-T/-S)-V ^{1), 3)}					1.0-16		1.0-16	1.0-16		30	12	6.1		SW3 ⁴⁾
D1,5-35 SV(-T/-S)-V-K ³⁾	10-35	35	10-35	35	1.5-35	35	1.5-35	1.5-35		36	16	9.0	SW5 ²⁾	
D10-35 SV(-T/-S)-V(-K) ³⁾	10-35	35	10-35	35	10-35	35	10-35	10-35		36	16	9.0	SW8	SW5
D25-50 SV(-T/-S)-V(-K)	25-50	35-50	25-50	35-50	25-50	35-50	25-35	50	25-35 ⁷⁾	36	18	10.0	SW8	SW5
D4-50 SV(-T/-S)-V-K	10-50	35-50	10-50	35-50	4-50	35-50	4-35	50	4-35 ⁷⁾	36	18	10.0	SW5 ²⁾	
D16-95 SV(-T/-S)-V(-K)	16-95	35-95	16-95	35-95	16-95	35-95	16-35	95	16-70 ⁷⁾	55	25	14.0	SW10	SW6
D25-150 SV(-T/-S)-V-K	25-150	35-150	25-150	35-150	25-150	35-150	16-35	120-150	25-95 ⁷⁾	70	28	17.0	SW6 ^{2,5)}	
D35-150 SV(-T/-S)-V(-K)	35-150	35-150	50-150	50-150	35-150	35-150	35	120-150	35-95 ⁷⁾	70	28	17.0	SW13 ⁵⁾	SW6 ⁵⁾
D25-185 SV(-T/-S)-V-K ⁶⁾	25-185	35-185	25-185	35-185	25-185	35-185	25-35	150	25-120 ⁷⁾	80	32	19.0	SW6 ²⁾	
D70-185 SV(-T/-S)-V(-K) ⁶⁾	70-185	70-185	70-185	70-185	70-185	70-185		150-185	70-120 ⁷⁾	80	32	19.0	SW13	SW6
D50-240 SV(-T/-S)-V-K ⁶⁾	50-240	50-240	50-240	50-240	50-240	50-240		240	50-185 ⁷⁾	120	35	22.0	SW6 ²⁾	
D120-240 SV(-T/-S)-V(-K) ⁶⁾	120-240	120-240	120-240	120-240	120-240	120-240		240	120-185 ⁷⁾	120	35	22.0	SW13	SW6
D50-300 SV(-T/-S)-V(-K) ⁶⁾	50-300	50-300	50-300	50-300	50-240	50-240		240	95-185	128	38	23.0	SW8 ²⁾	
D150-300 SV(-T/-S)-V(-K) ⁶⁾	150-300	150-300	150-300	150-300	150-240	150-240		240	150-185	128	38	23.0	SW13	SW8

¹⁾ Connector Body: Brass

²⁾ Double shear-off-head bolt

³⁾ Without sector channel

⁴⁾ Hexagon socket bolt, steel

⁵⁾ Bolt, brass (tin plated)

⁶⁾ With four shear-off head bolts

⁷⁾ Contact sleeves available on request

Bolt system

We use grub screws with inner hexagons as well as single and multiple shear-off-head bolts that are equipped with an inner or outer hexagon. Both are related to the various shear-off-areas of the bolt and different torque moments.

The torque moments follow the rule that large conductor cross-sections need higher torque moments and smaller cross-sections need lower torque moments. The installation instruction describes the use of both hexagons for

the respective conductor types. Grub screws are tightened with the prescribed torque.

Ordering instructions

Please indicate the part number when ordering (see table).

Order example

1 mechanical connector for 50-240 mm², with oil stop. Order according to the table: 1 set of mechanical connectors D50-240 SV-T-V-K with part number G6602 17 27 (4ER-SET).

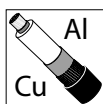
Specifications and standards

Mechanical connectors have been electrically tested according to IEC 61238-1-A or VDE 0220 part 100 respectively.

Product range

Please find the entire overview of our products for conductor connections in our catalogue GPH® Connection technology.

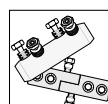
Mechanical connector type	Ordering part number
D1,5-16 SV-T-V-K D1,5-16 SV-S-V-K D1,5-16 SV-T-V D1,5-16 SV-S-V	G6603 01 01 G6603 01 02 G6603 01 03 G6603 01 04
D10-35 SV-T-V-K D10-35 SV-S-V-K D10-35 SV-T-V D10-35 SV-S-V	G6602 17 01 G6602 17 02 G6602 17 03 G6602 17 04
D4-50 SV-T-V-K D4-50 SV-S-V-K D25-50 SV-T-V-K D25-50 SV-S-V-K D25-50 SV-T-V D25-50 SV-S-V	G6602 17 05 G6602 17 06 G6602 17 07 G6602 17 08 G6602 17 09 G6602 17 10
D16-95 SV-T-V-K D16-95 SV-S-V-K D16-95 SV-T-V D16-95 SV-S-V	G6602 17 11 G6602 17 12 G6602 17 13 G6602 17 14
D25-150 SV-T-V-K D25-150 SV-S-V-K D35-150 SV-T-V-K D35-150 SV-S-V-K D35-150 SV-T-V D35-150 SV-S-V	G6602 17 15 G6602 17 16 (4ER-SET) G6602 17 17 G6602 17 18 G6602 17 19 G6602 17 20
D25-185 SV-T-V-K D25-185 SV-S-V-K D70-185 SV-T-V-K D70-185 SV-S-V-K D70-185 SV-T-V D70-185 SV-S-V	G6602 17 21 G6602 17 22 G6602 17 23 G6602 17 24 G6602 17 25 G6602 17 26
D50-240 SV-T-V-K D50-240 SV-S-V-K	G6602 17 27 (4ER-SET) G6602 17 28 (4ER-SET)
D50-300 SV-T-V-K D50-300 SV-S-V-K	G6602 17 44 G6602 17 43
D150-300 SV-T-V-K D150-300 SV-S-V-K	G6602 17 41 G6602 17 42



It is possible to connect different conductor materials.



It is possible to connect different conductor cross-sections.



Different designs available.



Can be used for all conductor shapes.

GPH® D-SERIES

Mechanical Cable Lugs up to 0.6/1 kV
with sector channel, hexagon socket bolts or shear-off-head bolts

Application

Using GPH® D-Series mechanical cable lugs allows larger conductor cross-section ranges even for low voltage applications, irrespective of the conductor material, shape and design. Mechanical cable lugs are standard tin-plated and offered with different palm hole diameters.

Advantages

• Simple, quick installation:

With common commercially available inner and outer hexagon tools or an approved impact wrench.

• Minimum storage costs:

The cross-section range from 1.5 mm² to 300 mm² is covered by just 3 types of cable lugs.

• Universal applicability:

Can be used for copper and aluminum conductors according to EN 60228 classes 1 & 2. For use with flexible copper conductors class 5, please contact us.

• Proven quality:

GPH® D-Series mechanical cable lugs allow long-lasting contact quality of the application.

Design

Material:

Connector body:

high strength aluminum alloy

Bolts:

high strength aluminum alloy, uncoated, with inner or outer hexagon

Surface:

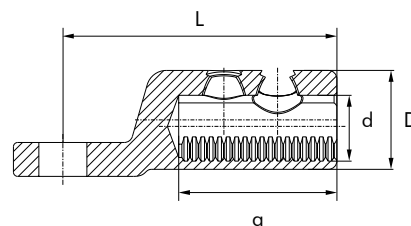
D ...-V: tin-plated

D120-240 x 12 SK-V-K



Bolts:

D ...: with hex. socket bolts



D ...-K:

with shear-off-head bolts

Mechanical cable lug type	AL acc. to EN 60228 (mm ²)				CU acc. to EN 60228 (mm ²)			CU Class 5 acc. to EN 60228 (mm ²)		Dimensions (mm)				Tool outer and inner hexagon
	rm	sm	re	se	rm	sm	re	without contact sleeve	with contact sleeve	L	D	d	a	
D1,5-35 x 8(10) SK-V-K ²⁾	10-35	35	10-35	35	1.5-35	35	1.5-35	1.5-35		40	16	9.0	16	SW5 ¹⁾
D25-50 x 10(12) SK-V-K	25-50	35-50	25-50	35-50	25-50	35-50	25-35	50	25-35 ⁵⁾	40	18	10.0	16	SW8
D16-95 x 10(12) SK-V-K	16-95	35-95	16-95	35-95	16-95	35-95	16-35	95	16-70 ⁵⁾	52	25	14.0	24	SW10
D35-150 x 12(16) SK-V-K	35-150	35-150	50-150	50-150	35-150	35-150	35	120-150	35-95 ⁵⁾	60	28	17.0	31	SW13 ³⁾
D25-185 x 10(12/16) SK-V-K ⁴⁾	25-185	35-185	25-185	35-185	25-185	35-185	25-35	150	25-120 ⁵⁾	77	32	19.0	37	SW6 ¹⁾
D70-185 x 10(12/16) SK-V-K ⁴⁾	70-185	70-185	70-185	70-185	70-185	70-185		150-185	70-120 ⁵⁾	77	32	19.0	37	SW13
D120-240 x 12(16) SK-V-K ⁴⁾	120-240	120-240	120-240	120-240	120-240	120-240		240	120-185 ⁵⁾	97	35	22.0	56	SW13
D50-300 x 12(16) SK-V-K ⁴⁾	50-300	50-300	50-300	50-300	50-240	50-240		240	95-185	105	38	23.0	60	SW8 ¹⁾
D150-300 x 12(16) SK-V-K ⁴⁾	150-300	150-300	150-300	150-300	150-240	150-240		240	150-185	105	38	23.0	60	SW13

¹⁾ Double shear-off-head bolt

²⁾ Without sector channel

³⁾ Bolt, brass (tin-plated)

⁴⁾ With two shear-off-head bolts

⁵⁾ Contact sleeves available on request
Other palm holes on request.

Bolt system

We use grub screws with inner hexagons as well as single and multiple shear-off-head bolts that are equipped with an inner or outer hexagon. Both are related to the various shear-off-areas of the bolt and different torque moments.

The torque moments follow the rule that large conductor cross-sections need higher torque moments and smaller cross-sections need lower torque moments. The installation instruction describes the use of both hexagons for the

respective conductor types. Grub screws are tightened with the prescribed torque.

Ordering instructions

Please indicate the part number when ordering (see table).

Order example

1 mechanical cable lug
for 120-240 mm²,
palm hole 12 mm.
Order according to the table:
1 mechanical cable lug
D120-240 x 12 SK-V-K with part
number G6702 54 12.

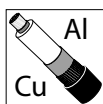
Mecanical cable lug	Ordering part number
D1,5-35 x 8 SK-V-K	G6702 54 17
D1,5-35 x 10 SK-V-K	G6702 54 18
D25-50 x 10 SK-V-K	G6702 54 21
D25-50 x 12 SK-V-K	G6702 54 14
D25-185 x 12 SK-V-K	G6702 54 31
D16-95 x 10 SK-V-K	G6702 54 16
D16-95 x 12 SK-V-K	G6702 54 09
D35-150 x 12 SK-V-K	G6702 54 13
D35-150 x 16 SK-V-K	G6702 54 23
D70-185 x 12 SK-V-K	G6702 54 32
D120-240 x 12 SK-V-K	G6702 54 12
D120-240 x 16 SK-V-K	G6702 54 25
D50-300 x 12 SK-V-K	G6702 54 33
D50-300 x 16 SK-V-K	G6702 54 34
D150-300 x 12 SK-V-K	G6702 54 29
D150-300 x 16 SK-V-K	G6702 54 30

Specifications and standards

Mechanical connectors have been electrically tested according to IEC 61238-1-A or VDE 0220 part 100 respectively.

Product range

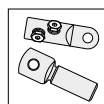
Please find the entire overview of our products for conductor connections in our catalogue GPH® Connection technology.



It is possible to connect different conductor materials.



It is possible to connect different conductor cross-sections.



Different designs available.



Can be used for all conductor shapes.

GPH® M-SERIES

Mechanical Connectors up to 52 kV
with shear-off-head bolts and transverse grooving

Application

Our GPH® M-Series mechanical connectors are assembled with multiple shear-off-head bolts and are therefore a reliable and efficient way of connecting identical or different conductor cross-sections and conductor materials.

Advantages

- **Simple, quick installation:**
With common commercially available inner and outer hexagon tools or an approved impact wrench.
- **Minimum storage costs:**
The cross-section range from 16 mm² to 1200 mm² is covered by just 4 types of connectors.

Universal applicability:

Can be used for copper and aluminum conductors according to EN 60228 classes 1 & 2. For use of our mechanical connectors with class 5 flexible copper conductors, please contact us.

Proven quality:

Tested for class 2 conductors according to IEC 61238-1-A, in failure-free operation for more than 20 years.

Design

Material

Connector body: high strength aluminium alloy
Bolts: brass, tin-plated, with inner and outer hexagon

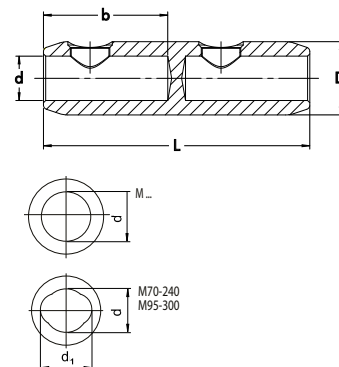
Surface

Connector body: tin-plated



M95-300

Centric conductor channel, with shear-off-head bolts and transverse grooving



Mechanical connector type ⁴⁾	Conductor cross-section AL (mm ²)			Conductor cross-section CU (mm ²)		Number of bolts	Dimensions (mm)				Tool outer and inner hexagon
	rm(v)	re	sm	rm(v)	sm		L	d	D	b	
M16-95	16-95	16-95	25-70	16-95	25-70	2	70	12.5	24	32	SW10 & SW6
M25-150	25-150	25-150	35-120	25-150	35-120	2	85	15.5	30	35	SW10 & SW6
M25-150/ 16-95	1 st side	25-150	25-150	35-120	25-150	2	85	15.5	30	35	SW10 & SW6
	2 nd side	16-95	10-95	25-70 ³⁾	16-95			12.5			
M70-240	70-240	70-240	70-240	70-240	70-240	4	120	22 ¹⁾	35	56	SW13 & SW6
M95-240	95-240	95-240	95-185	95-240	95-185	4	120	20	33	56	SW13 & SW6
M95-240/ 16-95	1 st side	95-240	95-240	95-185	95-240	4	120	20	33	56	SW13 & SW6
	2 nd side	16-95	10-95	25-70 ³⁾	16-95			12.5			
M95-300	95-300	95-300	95-240	70-300	70-240	4	142	23 ¹⁾	36	67	SW13 & SW8
M95-300/ 16-95	1 st side	95-300	95-300	95-240	70-300	4	142	23 ¹⁾	36	67	SW13 & SW8
	2 nd side	16-95	10-95	25-70 ³⁾	10-70			12.5			
M185-400	185-400	185-400	185-300	185-400	185-300	6	170	26	42	82	SW19 & SW6
M185-400/ 95-240	1 st side	185-400	185-400	185-300	185-400	6	170	26	42	82	SW19 & SW6
	2 nd side	95-240	95-240	95-185	95-240			20			
M300-500	300-500	300-500	300-400	300-500	300-400	6	200	34	52	94	SW19 & SW8
M400-630	400-630	400-630	400-500	400-630	400-500	6	200	34	52	94	SW19 & SW8
M400-630/ 120-300	1 st side	400-630	400-630	400-500	400-630	5	200	34	52	94	SW19 & SW8
	2 nd side	120-300	120-300	120-240	120-300			25			
M630-1000 ²⁾	630-1000	630-1000		630-1000		8	220	41	65	105	SW19 & SW8

¹⁾ Dimension d₁ = 26 mm

²⁾ Centric conductor positioning by center inserts

³⁾ Round pressed

⁴⁾ Other dimensions on request

M630-1000/ 185-400	1 st side ²⁾	630-1000	630-1000		630-1000		7	220	41	65	105	SW19 & SW8
	2 nd side	185-400	185-400	185-300	185-400	185-300			26		105	SW19

Technical details

Shear-off-head bolts are equipped with an inner and outer hexagon. Both are related to the various shear-off-areas of the bolt and different torque moments.

The torque moments follow the rule that large conductor cross-sections need higher torque moments and smaller cross-sections need lower torque moments.

The installation instruction describes the use of both hexagons and of the various center rings and inserts for the respective conductor types.

Centring of the conductor

For the centric positioning of smaller conductor cross-sections in the conductor channel, we use center rings that must be fully pressed into the channel of the connector before mounting

the corresponding conductor cross-section.
The center rings differ in colour and are assigned to the respective type of conductor. Appropriate installation instructions describe for which

type of conductor the center rings are to be used. For using conductors of the largest cross-section range, center inserts are enclosed for centric conductor positioning.

Ordering instructions

Please indicate the part number when ordering (see table). The center rings or inserts are included in the set.

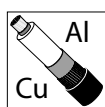
Order example

1 mechanical connector for 95-300 mm². Order according to the table: 1 mechanical connector M95-300 with part number G6402 51 47.

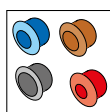
Mechanical connector type	Ordering part number
M16-95	G6402 50 31
M25-150	G6402 50 15
M25-150/16-95	G6402 50 37
M70-240	G6402 50 60
M95-240	G6402 50 16
M95-240/16-95	G6402 50 36
M95-300	G6402 51 47
M95-300/16-95	G6402 51 77
M185-400	G6402 50 27
M185-400/95-240	G6402 50 35
M300-500	G6402 50 62
M400-630	G6402 50 44
M400-630/120-300	G6402 50 54
M630-1000	G6402 51 10
M630-1000/185-400	G6402 51 11

Specifications and standards

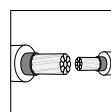
Mechanical connectors have been electrically tested according to IEC 61238-1-A or VDE 0220 part 100 respectively.



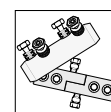
It is possible to connect different conductor materials.



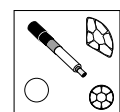
We use center rings for the centric positioning of small conductor cross-sections.



It is possible to connect different conductor cross-sections.



Different designs available.



Can be used for all conductor shapes.

GPH® C-SERIES

Mechanical Cable Lugs up to 52 kV
with shear-off-head bolts and transverse grooving

Application

Using GPH® C-Series mechanical cable lugs allows a larger, multirange conductor cross-section even for terminations. Mechanical cable lugs are standard tin-plated and offered with different palm hole diameters.

Advantages

- **Simple, quick installation:**
With common commercially available inner and outer hexagon tools or an approved impact wrench.
- **Minimum storage costs:**
The cross-section range from 16 mm² to 1200 mm² is covered by just 4 types of cable lugs.

Universal applicability:

Can be used for copper and aluminum conductors according to EN 60228 classes 1 & 2. For use of our mechanical cable lugs with class 5 flexible copper conductors, please contact us.

Proven quality:

Tested for class 2 conductors according to IEC 61238-1-A, in failure-free operation for more than 20 years.

Design

Material

Connector Body: high strength aluminium alloy
Bolts: brass, tin-plated, with inner and outer hexagon or aluminum alloy

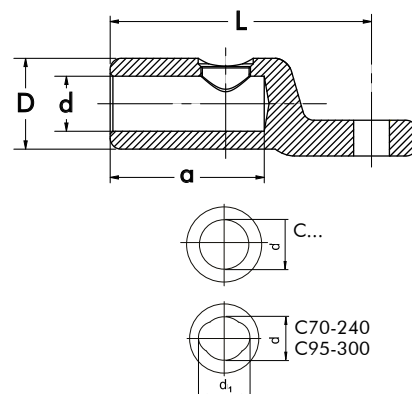
Surface

Connector body: tin-plated



C95-300

Centric conductor channel, with shear-off-head bolts and transverse grooving



Mechanical cable lug type	Conductor cross-section AL (mm ²)			Conductor cross-section CU (mm ²)		Number of bolts	Dimensions (mm)				Palm hole dia. (mm)	Tool outer and inner hexagon
	rm(v)	re	sm	rm(v)	sm		L	d	D	a		
C16-95 x 12	16-95	16-95	25-70	16-95	25-70	1	60	12.5	24	32	13	SW10 & SW6
C16-95 x 16											17	
C25-150 x 12	25-150	25-150	35-120	25-150	35-120	1	79	15.5	30	35	13	SW10 & SW6
C25-150 x 16											17	
C70-240 x 12	70-240	70-240	70-240	70-240	70-240	2	93,5	22 ¹⁾	35	56	13	SW13 & SW6
C70-240 x 16											17	
C95-240 x 12	95-240	95-240	95-185	95-240	95-185	2	95	20	33	56	13	SW13 & SW6
C95-240 x 16											17	
C95-300 x 12	95-300	95-300	95-240	70-300	70-240	2	105	23 ¹⁾	36	67	13	SW13 & SW8
C95-300 x 16											17	
C120-300 x 12	120-300	120-300	120-240	120-300	120-240	2	105	25	38	67	13	SW19 & SW6
C120-300 x 16											17	
C185-400 x 12	185-400	185-400	185-300	185-400	185-300	3	120	26	42	82	13	SW19 & SW6
C185-400 x 16											17	
C300-500 x 12	300-500	300-500	300-400	300-500	300-400	3	130	34	52	94	13	SW19 & SW8
C300-500 x 16											17	
C300-500 x 20											21	
C400-630 x 12											13	
C400-630 x 16	400-630	400-630	400-500	400-630	400-500	3	130	34	52	94	17	SW19 & SW8
C400-630 x 20											21	
C630-1000 x 20 ²⁾	630-1000	630-1000		630-1000		4	165	41	65	105	21	SW19 & SW8
C800-1200 x 20 ²⁾	800-1200	630-1200		630-1000		4	170	45	72	105	21	SW22 & SW8

¹⁾ Dimension d₁ = 26 mm

²⁾ Centric conductor positioning by center inserts

Technical details

Shear-off-head bolts are equipped with an inner and outer hexagon. Both are related to the various shear-off-areas of the bolt and different torque moments corresponding.

The torque moments follow the rule that large conductor cross-sections need higher torque moments and smaller cross-sections need lower torque moments.

The installation instruction describes the use of both hexagons and of the various center rings and inserts for the respective conductor types.

Centring of the conductor

For the centric positioning of smaller conductor cross-sections in the conductor channel, we use center rings that must be fully pressed into the channel of the cable lug before mounting the corre-

sponding conductor cross-section. The center rings differ in colour and are assigned to the respective type of conductor. Appropriate installation instructions describe for which type of conductor the center

rings are to be used. For using conductors of the largest cross-section range, a center insert is enclosed for centric conductor positioning.

Ordering instructions

Please indicate the part number when ordering (see table). The center rings or inserts are included in the set.

Order example:

1 mechanical cable lug for 95-300 mm², palm hole dia. 17 mm.
Order according to the table:
1 mechanical cable lug C95-300 x 16 with part number G6502 40 92.

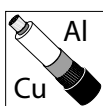
Mechanical cable lug type	Ordering part number
C16-95 x 12	G6502 40 20
C16-95 x 16	G6502 40 33
C25-150 x 12	G6502 40 09
C25-150 x 16	G6502 40 84
C70-240 x 12	G6502 40 36
C70-240 x 16	G6502 40 40
C95-240 x 12	G6502 40 10
C95-240 x 16	G6502 40 17
C95-300 x 12	G6502 40 88
C95-300 x 16	G6502 40 92
C120-300 x 12	G6502 40 23
C120-300 x 16	G6502 40 26
C185-400 x 12	G6502 40 30
C185-400 x 16	G6502 40 19
C300-500 x 12	G6502 40 34
C300-500 x 16	G6502 40 37
C300-500 x 20	G6502 40 41
C400-630 x 12	G6502 40 28
C400-630 x 16	G6502 40 31
C400-630 x 20	G6502 40 29
C630-1000 x 20	G6502 51 10
C800-1200 x 20	G6502 51 12

Specifications and standards

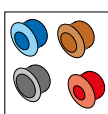
Mechanical connectors have been electrically tested according to IEC 61238-1-A or VDE 0220 part 100 respectively.

Product range

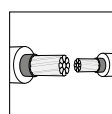
Please find the entire overview of our products for conductor connections in our catalogue GPH® connection technology.



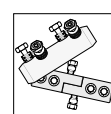
It is possible to connect different conductor materials.



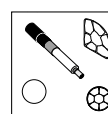
We use center rings for the centric positioning of small conductor cross-sections.



It is possible to connect different conductor cross-sections.



Different designs available.



Can be used for all conductor shapes.

GPH® Compression cable lugs, Cu

Standard type, with and without inspection hole

Application

For isolated, non-compacted copper conductors acc. to DIN EN 60228.

Technical note

Sector shaped conductors must be rounded with special dies.

Product range

Please find the entire overview of our products for conductor connections in our catalogues GPH® Connection technology.

Design

Material

Connector body: Copper, tin-plated
Palm: plan stamped

Type

KU-L: without inspection hole

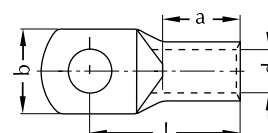
KU-L-S: with inspection hole



KU-L



KU-L-S



The compression of the KU-L series does not accord to the DIN requirements. Special compression tools are available on request.

Cable lug type		Conductor cross-section, stranded (mm²)	Dimensions (mm)				Palm hole dia. (mm)	Weight 100 pcs. (approx. kg)
KU-L	KU-L-S		d	a	l	b		
6 x 5 KU-L	6 x 5 KU-L-S	6	3.5	9	21	10.5	5.4	0.4
6 x 6 KU-L	6 x 6 KU-L-S				21	11.5	6.5	0.4
6 x 8 KU-L	6 x 8 KU-L-S				21	15.5	8.5	0.4
6 x 10 KU-L	6 x 10 KU-L-S				21	17.0	10.5	0.5
10 x 5 KU-L	10 x 5 KU-L-S	10	4.5	9	21	12.0	5.5	0.4
10 x 6 KU-L	10 x 6 KU-L-S				21	12.0	6.5	0.4
10 x 8 KU-L	10 x 8 KU-L-S				23	14.5	8.5	0.4
10 x 10 KU-L	10 x 10 KU-L-S				25.5	17.0	10.5	0.5
16 x 5 KU-L	16 x 5 KU-L-S	16	5.5	12	26	12.0	5.5	0.5
16 x 6 KU-L	16 x 6 KU-L-S				26	12.0	6.5	0.7
16 x 8 KU-L	16 x 8 KU-L-S				28	13.5	8.5	0.8
16 x 10 KU-L	16 x 10 KU-L-S				30	17.0	10.5	0.8
16 x 12 KU-L	16 x 12 KU-L-S				32	20.0	13.0	0.8
25 x 6 KU-L	25 x 6 KU-L-S	25	7.0	13	27	14.0	6.5	1.0
25 x 8 KU-L	25 x 8 KU-L-S				29	16.0	8.5	1.0
25 x 10 KU-L	25 x 10 KU-L-S				33	17.5	10.5	1.1
25 x 12 KU-L	25 x 12 KU-L-S				34	20.0	13.0	1.0
35 x 6 KU-L	35 x 6 KU-L-S	35	8.5	15	31	18.0	6.5	1.0
35 x 8 KU-L	35 x 8 KU-L-S				32	18.0	8.5	1.0
35 x 10 KU-L	35 x 10 KU-L-S				34	18.0	10.5	1.1
35 x 12 KU-L	35 x 12 KU-L-S				37	22.0	13.0	1.0

GPH® Compression cable lugs, Cu

Standard type, with and without inspection hole

Table on page 76 continued

Cable lug type		Conductor cross-section, stranded (mm ²)	Dimensions (mm)				Palm hole dia. (mm)	Weight 100 pcs. (approx. kg)
KU-L	KU-L-S		d	a	l	b		
50 x 8 KU-L	50 x 8 KU-L-S	50	3.5	9	21	10.5	5.4	0.4
50 x 10 KU-L	50 x 10 KU-L-S				21	11.5	6.5	0.4
50 x 12 KU-L	50 x 12 KU-L-S				21	15.5	8.5	0.4
50 x 16 KU-L	50 x 16 KU-L-S				21	17.0	10.5	0.5
70 x 8 KU-L	70 x 8 KU-L-S	70	12.0	19	41	23.0	8.5	3.5
70 x 10 KU-L	70 x 10 KU-L-S				40	23.0	10.5	3.6
70 x 12 KU-L	70 x 12 KU-L-S				42	23.0	13.0	3.6
70 x 16 KU-L	70 x 16 KU-L-S				50	29.0	17.0	3.6
70 x 20 KU-L	70 x 20 KU-L-S				52	31.0	21.0	4.6
95 x 8 KU-L	95 x 8 KU-L-S	95	13.5	22	48	25.0	8.5	4.7
95 x 10 KU-L	95 x 10 KU-L-S				48	25.0	10.5	4.8
95 x 12 KU-L	95 x 12 KU-L-S				48	25.0	13.0	4.9
95 x 16 KU-L	95 x 16 KU-L-S				53	31.0	17.0	5.3
95 x 20 KU-L	95 x 20 KU-L-S				58	31.0	21.0	6.1
120 x 10 KU-L	120 x 10 KU-L-S	120	15.0	25	54	28.0	10.5	6.7
120 x 12 KU-L	120 x 12 KU-L-S				54	28.0	13.0	6.7
120 x 16 KU-L	120 x 16 KU-L-S				56	29.0	17.0	6.9
120 x 20 KU-L	120 x 20 KU-L-S				59	34.0	21.0	6.9
150 x 10 KU-L	150 x 10 KU-L-S	150	16.5	27	57	31.0	10.5	8.8
150 x 12 KU-L	150 x 12 KU-L-S				58	31.0	13.0	8.6
150 x 16 KU-L	150 x 16 KU-L-S				59	31.0	17.0	8.7
150 x 20 KU-L	150 x 20 KU-L-S				61	33.0	21.0	8.8
185 x 12 KU-L	185 x 12 KU-L-S	185	19.0	30	66	35.0	13.0	11.5
185 x 16 KU-L	185 x 16 KU-L-S				66	35.0	17.0	11.6
185 x 20 KU-L	185 x 20 KU-L-S				68	35.0	21.0	11.8
240 x 12 KU-L	240 x 12 KU-L-S	240	21.0	34	75		13.0	13.9
240 x 16 KU-L	240 x 16 KU-L-S				71	38.0	17.0	13.6
240 x 20 KU-L	240 x 20 KU-L-S				73		21.0	13.8
300 x 12 KU-L	300 x 12 KU-L-S	300	24.0	45	90		13.0	23.8
300 x 16 KU-L	300 x 16 KU-L-S				87	43.0	17.0	23.7
300 x 20 KU-L	300 x 20 KU-L-S				87		21.0	23.8
400 x 16 KU-L	400 x 16 KU-L-S	400	27.5	50	96	48.0	17.0	28.4
400 x 20 KU-L	400 x 20 KU-L-S						21.0	28.5
500 x 16 KU-L	500 x 16 KU-L-S	500	31.0	65	122	55.0	17.0	45.2
500 x 20 KU-L	500 x 20 KU-L-S				120		21.0	46.9
625 x 16 KU-L	625 x 16 KU-L-S	625	34.0	70	124	59.0	17.0	43.9
625 x 20 KU-L	625 x 20 KU-L-S				120		21.0	46.9

GPH® Compression cable lugs, Cu

Acc. to DIN 46235

Application

For isolated, non-compacted copper conductors.

Technical note

Sector shaped conductors must be rounded with special dies.

Product range

Please find the entire overview of our products for conductor connections in our catalogue GPH® Connection technology.

Design

Material

Connector body: Copper

Surface

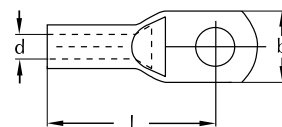
KU: uncoated
KU-V: tin-plated



KU



KU-V



Cable lug type		Conductor cross-section, stranded (mm²)	Dimensions (mm)			Palm hole dia. (mm)	Die code no.	Number of compressions		Weight 100 pcs. (approx. kg)
KU	KU-V		d	l	b			mech.	hydr.	
6 x 5 KU 6 x 6 KU	6 x 5 KU-V 6 x 6 KU-V	6	3.8	24	8.5	5.4 6.5	5	1		0.6
10 x 5 KU 10 x 6 KU	10 x 5 KU-V 10 x 6 KU-V	10	4.5	27	9.0	5.4 6.5	6	1		0.6
10 x 6 KU-S ¹⁾ 10 x 8 KU-S ¹⁾ 10 x 10 KU-S ¹⁾ 10 x 12 KU-S ¹⁾	10 x 6 KU-S-V ¹⁾ 10 x 8 KU-S-V ¹⁾ 10 x 10 KU-S-V ¹⁾ 10 x 12 KU-S-V ¹⁾	10	4.5	36 36 36 38	13.0 13.0 17.0 20.0	6.5 8.5 10.5 13.0	8	2		1.8 1.7 1.8 1.9
16 x 6 KU 16 x 8 KU 16 x 10 KU 16 x 12 KU ²⁾	16 x 6 KU-V 16 x 8 KU-V 16 x 10 KU-V 16 x 12 KU-V ²⁾	16	5.5	36	13.0 13.0 17.0 21.0	6.5 8.5 10.5 13.0	8	2	1	1.8 1.4 1.5 1.7
25 x 6 KU ²⁾ 25 x 8 KU 25 x 10 KU 25 x 12 KU 25 x 16 KU	25 x 6 KU-V ²⁾ 25 x 8 KU-V 25 x 10 KU-V 25 x 12 KU-V 25 x 16 KU-V	25	7.0	38 42	14.0 16.0 17.0 19.0 25.0	6.5 8.5 10.5 13.0 17.0	10	2	1	2.2 2.1 2.2 2.2 2.4
35 x 6 KU ²⁾ 35 x 8 KU 35 x 10 KU 35 x 12 KU 35 x 16 KU ²⁾	35 x 6 KU-V ²⁾ 35 x 8 KU-V 35 x 10 KU-V 35 x 12 KU-V 35 x 16 KU-V ²⁾	35	8.2	42 46	17.0 17.0 19.0 21.0 26.0	6.5 8.5 10.5 13.0 17.0	12	2	1	3.6 3.3 3.5 3.3 3.7

¹⁾ These cable lugs are longer than DIN-type lugs, with two compression marks instead of one and die code no. 8 instead no. 6.

²⁾ These cable lugs are manufactured as a special model, different from DIN 46235.

GPH® Compression cable lugs, Cu

Acc. to DIN 46235

Table on page 78 continued

Cable lug type		Conductor cross-section, stranded (mm ²)	Dimensions (mm)			Palm hole dia. (mm)	Die code no.	Number of compressions		Weight 100 pcs. (approx. kg)
KU	KU-V		d	l	b			mech.	hydr.	
50 x 8 KU	50 x 8 KU-V	50	10.0	52	20.0	8.5	14	3	1	4.4
50 x 10 KU	50 x 10 KU-V				22.0	10.5				4.5
50 x 12 KU	50 x 12 KU-V				24.0	13.0				4.4
50 x 16 KU	50 x 16 KU-V				28.0	17.0				5.0
70 x 8 KU	70 x 8 KU-V	70	11.5	55	24.0	8.5	16	3	1	6.1
70 x 10 KU	70 x 10 KU-V				24.0	10.5				6.1
70 x 12 KU	70 x 12 KU-V				24.0	13.0				6.2
70 x 16 KU	70 x 16 KU-V				30.0	17.0				5.9
70 x 20 KU	70 x 20 KU-V				32.0	21.0				7.0
95 x 10 KU	95 x 10 KU-V	95	13.5	65	28.0	10.5	18	4	2	9.2
95 x 12 KU	95 x 12 KU-V				28.0	13.0				9.2
95 x 16 KU	95 x 16 KU-V				32.0	17.0				9.1
95 x 20 KU ²⁾	95 x 20 KU-V ²⁾				34.0	21.0				10.4
120 x 10 KU	120 x 10 KU-V	120	15.5	70	32.0	10.5	20	4	2	11.4
120 x 12 KU	120 x 12 KU-V				32.0	13.0				11.6
120 x 16 KU	120 x 16 KU-V				32.0	17.0				11.0
120 x 20 KU	120 x 20 KU-V				38.0	21.0				12.8
150 x 10 KU	150 x 10 KU-V	150	17.0	78	34.0	10.5	22	4	2	16.9
150 x 12 KU	150 x 12 KU-V				34.0	13.0				16.4
150 x 16 KU	150 x 16 KU-V				34.0	17.0				16.3
150 x 20 KU	150 x 20 KU-V				40.0	21.0				17.0
185 x 10 KU	185 x 10 KU-V	185	19.0	82	37.0	10.5	25	5	2	19.3
185 x 12 KU	185 x 12 KU-V				37.0	13.0				19.4
185 x 16 KU	185 x 16 KU-V				37.0	17.0				19.1
185 x 20 KU	185 x 20 KU-V				40.0	21.0				20.0
240 x 12 KU	240 x 12 KU-V	240	21.5	92	42.0	13.0	28	5	2	28.5
240 x 16 KU	240 x 16 KU-V				42.0	17.0				28.9
240 x 20 KU	240 x 20 KU-V				45.0	21.0				28.0
300 x 12 KU ²⁾	300 x 12 KU-V ²⁾	300	24.5	100	48.0	13.0	32		2	38.1
300 x 16 KU	300 x 16 KU-V					17.0				37.5
300 x 20 KU	300 x 20 KU-V					21.0				38.5
400 x 16 KU ³⁾	400 x 16 KU-V ³⁾	400	26.0	115	55.0	17.0	38		3	79.8
400 x 20 KU ³⁾	400 x 20 KU-V ³⁾					21.0				76.6
500 x 16 KU ³⁾	500 x 16 KU-V ³⁾	500	29.0	125	60.0	17.0	42		3	97.8
500 x 20 KU ³⁾	500 x 20 KU-V ³⁾					21.0				96.0
400 x 16 KU-S	400 x 16 KU-S-V	400	27.5	115	55.0	17.0	38		3	68.8
400 x 20 KU-S	400 x 20 KU-S-V					21.0				66.0
500 x 16 KU-S	500 x 16 KU-S-V	500	31.0	125	60.0	17.0	42		3	85.0
500 x 20 KU-S	500 x 20 KU-S-V					21.0				83.5
625 x 16 KU	625 x 16 KU-V	625	34.5	135	60.0	17.0	44		3	79.4
625 x 20 KU	625 x 20 KU-V					21.0				77.9
800 x 20 KU	800 x 20 KU-V	800	40.0	165	75.0	21.0	52		3	146.9
1000 x 20 KU	1000 x 20 KU-V	1000	44.0	165	85.0	21.0	58		3	191.1

¹⁾ These cable lugs are longer than DIN-type lugs, with two compression marks instead of one and die code no. 8 instead no. 6.

²⁾ These cable lugs are manufactured as a special model, different from DIN 46235.

³⁾ Inside diameter adapted.

GPH® Compression cable lugs, Al

Longitudinally sealed, acc. to DIN 46329

Application

For aluminum conductors and aluminum cable conductors

Technical note

Sector shaped conductors must be rounded with special dies.

Design

Material

Connector body: Aluminum
Palm: plan stamped

Surface

ALU-F: uncoated
ALU-F-V: tin-plated

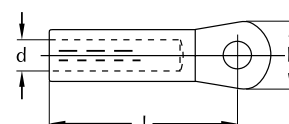
Cable lugs filled with compound and sealed in plastic.



ALU-F



ALU-F-V



Cable lug type		Conductor cross-section (mm ²)		Dimensions (mm)			Palm hole dia. (mm)	Die code no.	Number of compressions		Weight 100 pcs. (approx. kg)
ALU-F	ALU-F-V	rm/sm	se	d	l	b			mech.	hydr.	
16 x 8 ALU-F ¹⁾	16 x 8 ALU-F-V ¹⁾	16	25	5.4	50	20	8.5	12	4	2	1.4
16 x 10 ALU-F ¹⁾	16 x 10 ALU-F-V ¹⁾					25	10.5				1.3
25 x 8 ALU-F ¹⁾	25 x 8 ALU-F-V ¹⁾	25	35	6.8	50	20	8.5	12	4	2	1.5
25 x 10 ALU-F ¹⁾	25 x 10 ALU-F-V ¹⁾					25	10.5				1.4
25 x 12 ALU-F ¹⁾	25 x 12 ALU-F-V ¹⁾					25	13.0				1.4
35 x 8 ALU-F	35 x 8 ALU-F-V	35	50	8.0	62	25	8.5	14	5	2	2.6
35 x 10 ALU-F	35 x 10 ALU-F-V					25	10.5				2.4
35 x 12 ALU-F	35 x 12 ALU-F-V					25	13.0				2.3
50 x 8 ALU-F	50 x 8 ALU-F-V	50	70	9.8	62	25	8.5	16	5	2	2.5
50 x 10 ALU-F	50 x 10 ALU-F-V					25	10.5				2.4
50 x 12 ALU-F	50 x 12 ALU-F-V					25	13.0				2.3
70 x 8 ALU-F	70 x 8 ALU-F-V	70	95	11.2	72	25	8.5	18	6	3	3.5
70 x 10 ALU-F	70 x 10 ALU-F-V					25	10.5				3.3
70 x 12 ALU-F	70 x 12 ALU-F-V					25	13.0				3.3
95 x 8 ALU-F	95 x 8 ALU-F-V	95	120	13.2	78	25	8.5	22	6	3	7.4
95 x 10 ALU-F	95 x 10 ALU-F-V				78	25	10.5				7.0
95 x 12 ALU-F	95 x 12 ALU-F-V				78	25	13.0				6.7
95 x 16 ALU-F	95 x 16 ALU-F-V				80	30	17.0				6.7
120 x 10 ALU-F	120 x 10 ALU-F-V	120	150	14.7	84	30	10.5	22	6	3	6.8
120 x 12 ALU-F	120 x 12 ALU-F-V					30	13.0				6.5
120 x 16 ALU-F	120 x 16 ALU-F-V					30	17.0				6.5
150 x 10 ALU-F	150 x 10 ALU-F-V	150	185	16.3	90	30	10.5	25	6	3	8.8
150 x 12 ALU-F	150 x 12 ALU-F-V					30	13.0				8.4
150 x 16 ALU-F	150 x 16 ALU-F-V					30	17.0				9.3

¹⁾ Palm width and height do not comply with DIN 46329.

GPH® Compression cable lugs, Al

Longitudinally sealed, acc. to DIN 46329

Product range

Please find the entire overview of our products for conductor connections in our catalogue GPH® Connection technology.

Table on page 80 continued

Cable lug type		Conductor cross-section (mm²)		Dimensions (mm)			Palm hole dia. (mm)	Die code no.	Number of compressions		Weight 100 pcs. (approx. kg)
ALU-F	ALU-F-V	rm/sm	se	d	l	b			mech.	hydr.	
185 x 10 ALU-F	185 x 10 ALU-F-V	185	240	18.3	91	30	10.5	28	6	3	11.1
185 x 12 ALU-F	185 x 12 ALU-F-V						13.0				11.0
185 x 16 ALU-F	185 x 16 ALU-F-V						17.0				11.2
240 x 12 ALU-F	240 x 12 ALU-F-V	240	300	21.0	103	38	13.0	32	8	3	15.9
240 x 16 ALU-F	240 x 16 ALU-F-V						17.0				15.5
240 x 20 ALU-F	240 x 20 ALU-F-V						21.0				16.2
300 x 12 ALU-F	300 x 12 ALU-F-V	300		23.3	103	38	13.0	34	8	3	17.4
300 x 16 ALU-F	300 x 16 ALU-F-V						17.0				19.1
300 x 20 ALU-F	300 x 20 ALU-F-V						21.0				
400 x 12 ALU-F	400 x 12 ALU-F-V	400		26.0	116	38	13.0	38		3	34.0
400 x 16 ALU-F	400 x 16 ALU-F-V						17.0				35.5
400 x 20 ALU-F	400 x 20 ALU-F-V						21.0				
500 x 12 ALU-F	500 x 12 ALU-F-V	500		29.0	122	44	13.0	44		4	40.5
500 x 16 ALU-F	500 x 16 ALU-F-V						17.0				40.3
500 x 20 ALU-F	500 x 20 ALU-F-V						21.0				



6A

TOOLS

for the installation of power accessories



CABLE PREPARATION TOOLS

for accessories installation in medium voltage applications

I Peeling tool with stop ring, size 1



Order numbers: peeling tool 51494 / spare cutter 51495

The peeling tool is suitable for removing the extruded outer semi-conductive cable screen of medium voltage cables. Field of application: 10 kV 25 mm² up to 30 kV 500 mm² cables, diameter over core insulation between 10 mm up to 52 mm. The cutting depth is preset for semi-con screens acc. to VDE 0276 part 620. In case of thicker screens

than described, the cutting depth of the blade can be adjusted up to a maximum of 1.2 mm. By using the tool with length control the semi-con layer can be removed between 25 mm up to 100 mm measured from cut-off edge of outer cable sheath. Stop rings included in the kit.

I 2-in-1 Cable sheath and cable insulation cutter, size 1



Order numbers: cable sheath 59117 / spare cutter 51488

The tool is engineered for professional and safe stripping of the outer cable sheath of medium voltage cables. Field of application: 10 kV 25 mm² up to 30 kV 500 mm² single-core cables, diameter over outer sheath between 15 mm up to 57 mm. The tool is also suitable for removing polymeric insulation of medium voltage cables in the aforementioned range. It has been

designed to provide spiral cutting (longitudinal) as well as circumferential cutting. The blade is specially formed with a guiding system lifting the material while cutting it to avoid any damages to the layers underneath. Cutting depth is adjustable.

I Chamfering tool, size 1



Order numbers: chamfering tool 43523 / spare cutter 44129

This very simple to handle tool removes sharp edges at the cut-off edge of cable insulation to avoid possible damage to and to ease installation of slip-on accessories. Field of application: 10 kV 25 mm² up to 30 kV 500 mm² cables acc. to VDE 0276 part 620, diameter over core insulation between 12 mm up to 45 mm after peeling the outer

sheath. Due to its specially formed blade a radius is produced at the cut-off edge. This reduces the force required to install non-size sensitive slip-on accessories enormously.

I Insulation stripping tool



Order numbers: 40001 for 10 kV; 40002 for 20 kV; 40003 for 30 kV
Order numbers: spare cutter 41083 for 10 kV; 41084 for 20 kV; 41085 for 30 kV

Tool for removing the core insulation of PVC or XLPE insulated medium voltage cables. Separate tools for voltage level of 10 kV, 20 kV and 30 kV can be delivered. Therefore, no adjustment of voltage level or

conductor cross-section is necessary. The simple exchange of blades with preset cutting depth prevents damaging the cable conductor.

CABLE PREPARATION TOOLS

for accessories installation in medium voltage applications
and cables with conductor cross-sections $> 500 \text{ mm}^2$

I Peeling tool with stop ring, size 2



Order numbers: peeling tool 55152 / spare cutter 51495

The peeling tool is suitable for removing the extruded outer semi-conductive cable screen of medium voltage cables with diameters over core insulation between 10 mm up to 60 mm. The cutting depth is preset for semi-con screens acc. to VDE 0276 part 620. In case of thicker screens than described, the cutting depth of the blade can be

adjusted up to a maximum of 1.2 mm. By using the tool with length control the semi-con layer can be removed between 25 mm up to 100 mm measured from cut-off edge of outer cable sheath. Stop rings included in the kit.

I 2-in-1 Cable sheath and cable insulation cutter, size 2



Order numbers: cable sheath 59118 / spare cutter 55541

The tool is engineered for professional and safe stripping of the outer cable sheath of medium voltage single-core cables with diameters over outer sheath between 32 mm up to 70 mm. The tool is also suitable for removing polymeric insulation of medium voltage cables in the afore mentioned range. It has been designed to provide spiral cutting (longitudinal)

as well as circumferential cutting. The blade is specially formed with a guiding system lifting the material while cutting it to avoid any damages to the layers underneath. Cutting depth is adjustable.

I Chamfering tool, size 2



Order numbers: chamfering tool 55154 / spare cutter 44129

This very simple to handle tool removes sharp edges at the cut-off edge of cable insulation to avoid possible damage to and to ease installation of slip-on accessories. It can be used for diameters over core insulation between 15 mm up

to 60 mm after peeling the outer sheath. Due to its specially formed blade a radius is produced at the cut-off edge. This reduces the force required to install non-size sensitive slip-on accessories enormously.

CABLE PREPARATION TOOLS

for accessories installation in medium voltage applications

I Tool case complete, size 1 (for cross-sections up to 500 mm²)

Order number:

Tool case complete 51426

I Tool case complete, size 2 (for cross-sections > 500 mm²)

Order number:

Tool case complete 55155



(Figure: Tool case complete, size 1, for cross-sections up to 500 mm²)

I Kit contents

Rigid case with foam pads, two-in-one cable sheath and cable insulation cutter, chamfering tool, devices (stop rings, silicone grease and Allen key for tooling adjustments).

DMV65

Torque amplifier with tool case

Application

The torque amplifier DMV65 is appropriate for a gentle removal of shear-off-head bolts in mechanical connectors using standard cordless screwdrivers. The tool enables an optimum clamping force using mechanical GPH® connectors with conductor cross-sections up to 630 mm². The DMV65 ensures outstanding installation quality for mechanical connectors and cable lugs up to Ø 52 mm.

Technical characteristics

- Triangle
- 1/2" Square inserting the socket wrench
- Rods length 80.5 mm
- Transmission ratio 1:24
- Max. engine torque 65 Nm
- Min. driving torque 3.5 Nm
- Weight 941 g

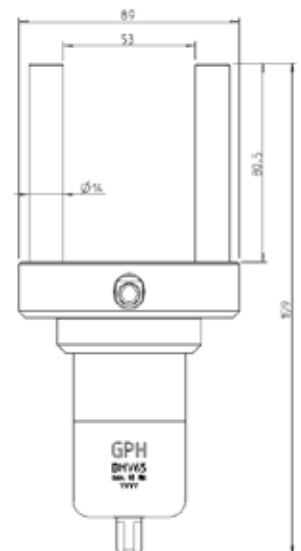


Kit contents

- Tool case with foam pads
- Outer hexagon tools SW10, 13, 14, 17, 19, 22, 24
- Inner hexagon tools SW5, 6, 8, 10
- Hexagon socket key SW5
- Instruction manual

Design

- Rods, assembled, length 80.5 mm
- Rod socket
- Inner tapped hole for Ø < 40 mm
- Outer tapped hole for Ø < 53 mm
- 1/2" Square with ball coupling
- Release hole
- Gearbox
- Triangle
- Hexagon socket key SW5



Material

- Operating parts and rods manufactured of high strength quality steel
- Engine body made of aluminum with anodised surface

Important notice

- The torque amplifier is not approved for live working installation.
- The tool is not allowed to be used in combination with an impact wrench.
- Consider the installation instruction of the respective mechanical connector or cable lug.

Ordering instructions

Type	Max. engine torque (Nm)	Package	Dimensions (mm)	Weight (g)
DREHMOMENTVERSTÄRKER DMV65 IM KOFFER	65	Tool case	375 x 240 x 120	2600

DMV65

Torque amplifier, isolated, with tool case

Application

The isolated torque amplifier DMV65 is appropriate for a gentle removal of shear-off-head bolts in mechanical connectors using standard cordless screwdrivers. According to manufacturer self-test referring to EN 60900, the electrical isolation between installer and connector is given by the tool. Nevertheless, wearing of personal protective equipment (PPE) is mandatory.

Technical characteristics

- Triangle
- 1/2" Square inserting the socket wrench
- Rods length 81 mm
- Transmission ratio 1:24
- Max. engine torque 65 Nm
- Min. driving torque 3.5 Nm
- Weight 1380 g

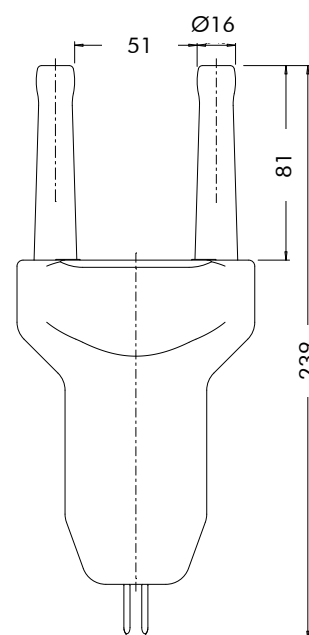


Kit contents

- Tool case with foam pads
- Outer hexagon tools SW10, 13, 14, 17, 19, 22, 24
- Inner hexagon tools SW5, 6, 8, 10
- Hexagon socket key SW5
- Instruction manual

Design

- Installed rods, insulated, length 81 mm
- Cover plate
- Inner tapped hole for $\varnothing < 36$ mm
- Outer tapped hole for $\varnothing < 48$ mm
- Gearbox, insulated
- Triangle
- Hexagon socket key SW5



Material

- Operating parts and rods manufactured of high strength quality steel with plastic-covered surfaces (Polyamide PA)
- Engine body made of aluminum with plastic cover (Polyoxymethylene POM)

Important notice

- The contact with other connectors nearby must be avoided.
- The tool is not allowed to be used with an impact wrench.
- Consider the installation instruction of the respective mechanical connector or cable lug.

Ordering instructions

Type	Max. engine torque (Nm)	Package	Dimensions (mm)	Weight (g)
DREHMOMENTVERSTÄRKER POTENTIALGETRENNT DMV65	65	Tool case	375 x 240 x 120	3000

iDMV65

Torque amplifier iDMV65 with integrated drive and tool case

Application

The integrated torque amplifier DMV65 is the appropriate all-in-one tool for a gentle removal of shear-off-head bolts in mechanical connectors. It enables an optimum clamping force using mechanical GPH® connectors with conductor cross-sections up to 630 mm². For the comfortable handling during the installation, the power unit is integrated into the gearbox.

Technical characteristics

- 1/2" Square inserting the socket wrench
- Rods length 80.5 mm
- Max. engine torque 65 Nm
- Li-Ion battery (12V/2.0 Ah)
- Charging time approx. 30 min
- Weight 2100 g



Kit contents

- Tool case with foam pads
- Outer hexagon tools SW10, 13, 14, 17, 19, 22, 24
- Inner hexagon tools SW5, 6, 8, 10
- Hexagon socket key SW5
- Instruction manual

Design

- Integrated cordless screw driver
- Installed rods, length 80.5 mm
- Rod socket
- Inner tapped hole for $\varnothing < 40$ mm
- Outer tapped hole for $\varnothing < 53$ mm
- 1/2" Square with ball coupling and release function
- Release hole
- Gearbox
- Hexagon socket key SW5



Material

- Cordless quality screw driver with battery charger
- Operating parts and rods manufactured of high strength quality steel
- Engine body made of aluminum with anodised surface

Important notice

- The torque amplifier is not approved for live working installation.
- Consider the installation instruction of the respective mechanical connector or cable lug.

Ordering instructions

Type	Max. engine torque (Nm)	Package	Dimensions (mm)	Weight (g)
DREHMOMENTVERSTÄRKER MIT INTEGRIERTEM ANTRIEB iDMV65 IM KOFFER	65	Tool case	340 x 230 x 70	4200