

Power cable compression lugs  
Installation of solderless compression lugs  
on power cables



# Compression power cable lugs solutions

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# Color-Keyed® system

## The ABB method is better

The ABB method of installing compression lugs on power cables is designed to provide a high degree of reliability in electrical wiring. This method allows electrical workers to make installations with a little effort and at a considerable savings in time. The benefit, of course, is a high-quality connection at a low installed cost.

Just four easy steps to a perfect connection! \*

### Step 1



Carefully strip the insulation on de-energized wires to avoid nicking or cutting conductors (wire brush if required).



Strands cut



Nicked strands



Strip the insulation to the proper length so that conductors can be fully inserted into the lug barrel.



Strip length too short

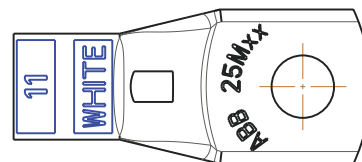
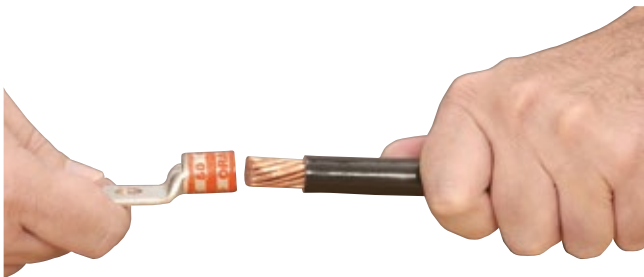


Strip length too long



### Step 2

Determine the proper lug for the cable size being used. Lugs are marked to show cable size.



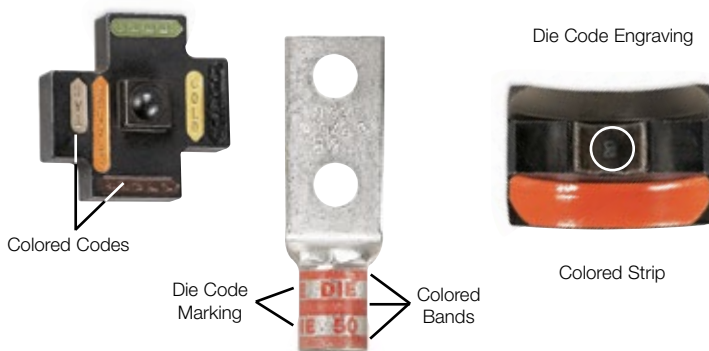
\* Pictures and explanations are based on Blackburn AWG product range. Tools, dies, lugs and markings may differ for each product range

### Step 3

Select the proper installing die and appropriate tool.



Blackburn® Lugs featuring the Color-Keyed® system have colored bands or colored dots that correspond to color markings on the dies. Lugs and dies also have a die code number marked or stamped on them. Dies have a code number engraved in the crimp surface.



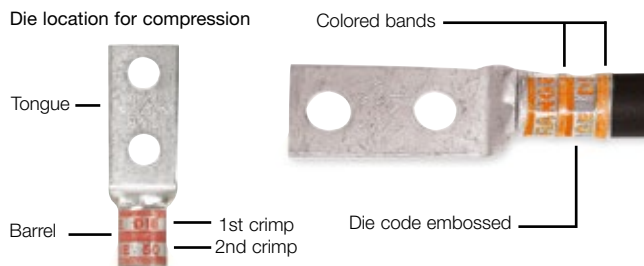
### Step 4

Locate tool with correct die in proper position on lug and activate tool.



When making multiple crimps, make the first crimp nearest the tongue and work towards the barrel end.

When properly crimped, the die code number will be embossed on the lug for easy inspection to determine if correct die and lug combination were used.



**Copper**  
Die located  
BETWEEN bands



**Aluminum**  
Die located  
ON Bands



Blackburn® Lugs featuring the Color-Keyed® system are banded by colored stripes or engraving to indicate location of die on lug for compression.

ABB uses full-width and half-width dies dependent on lug size and tool used. Half-width dies are marked with the letter "H" after the die code number.

Refer to the instruction sheet supplied with the lugs for information regarding strip length, die selection and number of compressions required.

# HEX crimping technology

## Precision dies form a solid homogenous mass

The ABB method utilizing compression tools with matching dies forms the lug and conductor into a solid, homogenous mass to provide an optimum electrical bond between lug and conductor.



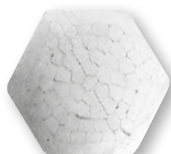
ABB method\* dies are designed to produce a circumferential, hex- or diamond-shaped compression rather than a simple indent. Precision dies are an integral part of the ABB method. The precision hardened steel dies exert tremendous, controlled pressure on the lug and conductor. The dies compress the lug around the cable, converting the round strands to hexagonal or diamond shapes and forming the strands and lug into a solid mass. Each die is designed so that all conductors receive the same amount of compression force.

The circumferential compression creates a large area of high-pressure contact between cable and lug which, in turn, assures high conductivity, low resistance, and high pullout values which exceed UL/IEC/CE requirements. These features result in a permanent, low installed cost connection. You can install it, and forget it.

### The ABB system tells you where to place the installing die.

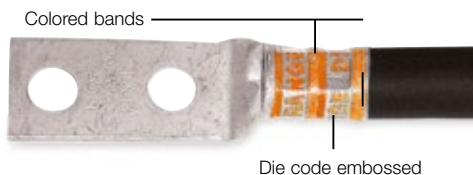


Before compression, a typical cross section of cable and lug consists of about 75% metal and 25% air.



After air compression by the ABB Method, the cross section looks like this, nearly 100% metal with virtually no air spaces.

Blackburn® lugs featuring the Color-Keyed® system not only identify the correct installing die to be used for positive compressions, but also indicate the proper placement of the die on the lug. This is done by the bands of color on the lug which match the color on the dies. Compression is made between or on these color bands. The color name is also spelled on the lug as an added means of identification.







Dies that are used in AAB hand and hydraulic tools contain the “die code” numbers which are engraved on the compression surface of the die. Under compression, this number becomes embossed on the completed connection for inspection purposes. The inspector compares the die code number embossed on the lug with the die table to ensure that the proper lug was compressed with the correct die for that particular size conductor.

\* Pictures and explanations are based on Blackburn AWG product range. Tools, dies, lugs and markings may differ for each product range

# Color-Keyed® Lugs

## Quick guide



Type	Standard barrel	Wire sizes in mm <sup>2</sup>													
		6	10	16	25	35	50	70	95	120	150	185	240	300	400
One hole	Straight 	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	45 degrees 	X	X	X	X	X	X	X	X	X	X	X	X		
	90 degrees 	X	X	X	X	X	X	X	X	X	X	X	X	X	
Two holes	Straight 				X	X	X	X	X	X	X	X	X	X	

# Color-Keyed® Dies selector

## Quick guide

Conductor Size [mm <sup>2</sup> ]	Color-Keyed®		
	Lug Part number	H-CK 240 B-CK 240 T-CK 240	H-CK 400 B-CK 400 T-CK 400
6	6Mx-A	6TON06M	
10	10Mx-A	6TON08M	15508M
16	16Mx-A	6TON09M	15509M
25	25Mx-A	6TON11M	15511M
35	35Mx-A	6TON13M	15513M
50	50Mx-A	6TON145M	155145M
70	70Mx-A	6TON17M	15517M
95	95Mx-A	6TON20M	15520M
120	120Mx-A	6TON22M	15522M
150	150Mx-A	6TON25M	15525M
185	185Mx-A	6TON27M	15527M
240	240Mx-A	6TON30M	15530M
300	300Mx-A		15532M
400	400Mx-A		15536M

\* For other tools compatibility, please contact your ABB local contact or check our website for your local contact number

<http://new.abb.com/low-voltage/products/connectivity-grounding>

# Color-Keyed® lugs

## Copper / Straight – one hole type



### Technical Information

#### Application

- Copper tin plated Metric Compression Lug for power cables for rated voltage up to 36kV. From 6 to 400 mm<sup>2</sup>
- Intended for electricity distribution or industrial networks in which they can be subjected to short-circuits of relatively high intensity and duration
- Specially designed to accommodate both stranded (class 2) and flexible (class 5) power cables according to IEC 60228

#### Characteristics

- Straight - one hole lug with Color Keyed technology (error-free installation)
- Hole inspection to ease installation control
- Short Circuit resistance\*
- Chamfer barrel to assist installation work

#### Material

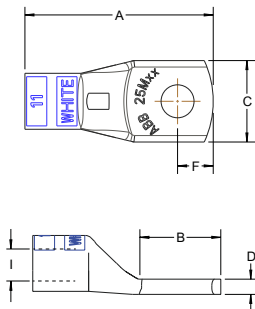
- Copper. Comply to EN13600

#### Surface

- Tin plated

#### Certification

- Comply to IEC 61238 - CE declaration

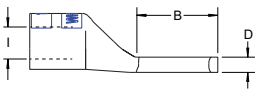
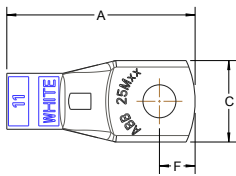


Nominal X-Section [mm <sup>2</sup> ]	Stud Bolt Size	Part Number	GID Number	Die selection			Dimensions						PCs per box	
				Colour code	Die code	Compression Tooling	l	A	B	C	D	F		
														H-CK 240 B-CK 240 T-CK 240
6	M4	6M4-A	7TAA302010R0054	Orange	⊕6	6TON06M	4.0	24.3	11.0	9.4	1.7	5.0	50	
	M5	6M5-A	7TAA302010R0057					25.3	12.0	9.4	1.7	5.5		
	M6	6M6-A	7TAA302010R0058					26.3	13.0	9.8	1.6	6.0		
	M8	6M8-A	7TAA302010R0055					29.3	16.0	13.0	1.2	7.0		
	M10	6M10-A	7TAA302010R0056					31.3	18.0	16.0	1.0	8.0		
10	M5	10M5-A	7TAA302010R0000	Purple	⊕8	6TON08M	15508M	5.0	29.9	13.0	11.5	3.0	6.0	50
	M6	10M6-A	7TAA302010R0001						29.9	13.0	11.5	3.0	6.0	
	M8	10M8-A	7TAA302010R0002						32.9	16.0	13.5	2.2	7.0	
	M10	10M10-A	7TAA302010R0003						34.9	18.1	16.0	2.2	8.0	
16	M6	16M6-A	7TAA302010R0004	Yellow	⊕9	6TON09M	15509M	6.0	33.0	16.0	13.0	3.0	7.0	50
	M8	16M8-A	7TAA302010R0005						33.0	16.0	13.0	3.0	7.0	
	M10	16M10-A	7TAA302010R0006						38.0	22.0	16.0	2.3	10.0	
	M12	16M12-A	7TAA302010R0007						47.0	25.0	22.0	2.3	12.0	
25	M6	25M6-A	7TAA302010R0008	White	⊕11	6TON11M	15511M	8.0	37.0	17.0	16.0	3.0	7.0	50
	M8	25M8-A	7TAA302010R0009						38.0	18.0	16.0	3.0	8.0	
	M10	25M10-A	7TAA302010R0010						42.0	22.0	17.0	2.7	10.0	
	M12	25M12-A	7TAA302010R0011						47.0	25.0	22.0	2.7	12.0	
35	M6	35M6-A	7TAA302010R0012	Red	⊕13	6TON13M	15513M	9.0	44.8	20.0	18.0	4.2	10.0	10
	M8	35M8-A	7TAA302010R0013						44.8	20.0	18.0	4.2	10.0	
	M10	35M10-A	7TAA302010R0014						45.8	21.0	18.0	4.2	10.0	
	M12	35M12-A	7TAA302010R0015						52.0	26.0	22.0	3.7	12.0	
50	M6	50M6-A	7TAA302010R0016	Blue	⊕14.5	6TON145M	155145M	11.0	50.2	23.0	21.0	3.5	11.0	10
	M8	50M8-A	7TAA302010R0017						50.2	23.0	21.0	3.5	11.0	
	M10	50M10-A	7TAA302010R0018						50.2	23.0	21.0	3.5	11.0	
	M12	50M12-A	7TAA302010R0019						53.2	26.0	22.0	3.0	12.0	
70	M6	70M6-A	7TAA302010R0020	Brown	⊕17	6TON17M	15517M	13.0	55.0	23.0	25.0	4.0	11.0	10
	M8	70M8-A	7TAA302010R0021						55.0	23.0	25.0	4.0	11.0	
	M10	70M10-A	7TAA302010R0022						55.0	23.0	25.0	4.0	11.0	
	M12	70M12-A	7TAA302010R0023						58.0	26.0	25.0	4.0	12.0	
	M16	70M16-A	7TAA302010R0024						64.0	32.0	28.0	3.7	15.0	

\* Six short-circuits are applied after the 200th heat cycle (IEC 61238-1 total of 1000 Heat cycle test). The short-circuit current level shall be such that it raises the bare reference conductors from a temperature of ≤35 °C to a temperature between 250 °C and 270 °C



# Color-Keyed® lugs Copper / Straight – one hole type



Nominal X-Section [mm <sup>2</sup> ]	Stud Bolt Size	Part Number	GID Number	PinDie selection			Dimensions						PCs per box	
				Colour code	Die code	Compression Tooling	I	A	B	C	D	F		
95	M8	95M8-A	7TAA302010R0025	Green	⊕20	6TON20M	15520M	15.0	69.0	32.0	29.0	5.0	15.0	10
	M10	95M10-A	7TAA302010R0026						69.0	32.0	29.0	5.0	15.0	
	M12	95M12-A	7TAA302010R0027						69.0	32.0	29.0	5.0	15.0	
	M16	95M16-A	7TAA302010R0028						69.0	32.0	29.0	5.0	15.0	
120	M8	120M8-A	7TAA302010R0029	Pink	⊕22	6TON22M	15522M	17.0	73.0	32.0	32.0	5.0	15.0	10
	M10	120M10-A	7TAA302010R0030						73.0	32.0	32.0	5.0	15.0	
	M12	120M12-A	7TAA302010R0031						73.0	32.0	32.0	5.0	15.0	
	M16	120M16-A	7TAA302010R0032						73.0	32.0	32.0	5.0	15.0	
150	M10	150M10-A	7TAA302010R0033	Black	⊕25	6TON25M	15525M	19.0	80.0	32.0	36.0	6.0	15.0	10
	M12	150M12-A	7TAA302010R0034						80.0	32.0	36.0	6.0	15.0	
	M16	150M16-A	7TAA302010R0035						80.0	32.0	36.0	6.0	15.0	
	M20	150M20-A	7TAA302010R0036						87.0	39.0	36.0	6.0	19.0	
185	M10	185M10-A	7TAA302010R0037	Orange	⊕27	6TON27M	15527M	21.0	86.0	32.0	39.0	6.0	15.0	6
	M12	185M12-A	7TAA302010R0038						86.0	32.0	39.0	6.0	15.0	
	M16	185M16-A	7TAA302010R0039						86.0	32.0	39.0	6.0	15.0	
	M20	185M20-A	7TAA302010R0040						93.0	39.0	39.0	6.0	19.0	
240	M10	240M10-A	7TAA302010R0041	Purple	⊕30	6TON30M	15530M	24.0	95.0	39.0	44.0	6.0	19.0	6
	M12	240M12-A	7TAA302010R0042						24.0	39.0	44.0	6.0	19.0	
	M16	240M16-A	7TAA302010R0043						24.0	39.0	44.0	6.0	19.0	
	M20	240M20-A	7TAA302010R0044						24.0	39.0	44.0	6.0	19.0	
300	M10	300M10-A	7TAA302010R0045	Yellow	⊕32		15532M	26.0	115.0	53.0	48.0	6.0	22.0	6
	M12	300M12-A	7TAA302010R0046						115.0	53.0	48.0	6.0	22.0	
	M16	300M16-A	7TAA302010R0047						115.0	53.0	48.0	6.0	22.0	
	M20	300M20-A	7TAA302010R0048						115.0	53.0	48.0	6.0	22.0	
	M24	300M24-A	7TAA302010R0049						115.0	53.0	48.0	6.0	22.0	
400	M12	400M12-A	7TAA302010R0050	White	⊕36		15536M	27.4	124.0	53.0	51.1	6.8	22.0	3
	M16	400M16-A	7TAA302010R0051						124.0	53.0	51.1	6.8	22.0	
	M20	400M20-A	7TAA302010R0052						124.0	53.0	51.1	6.8	22.0	
	M24	400M24-A	7TAA302010R0053						124.0	53.0	51.1	6.8	22.0	

# Color-Keyed® lugs

## Copper / 45 degrees – one hole type



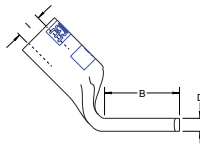
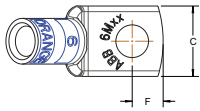
### Technical Information

#### Application

- Copper tin plated Metric Compression Lug for power cables for rated voltage up to 36kV. From 6 to 240 mm<sup>2</sup>
- Intended for electricity distribution or industrial networks in which they can be subjected to short-circuits of relatively high intensity and duration
- Specially designed to accommodate both stranded (class 2) and flexible (class 5) power cables according to IEC 60228

#### Characteristics

- 45 degrees - one hole lug with Color Keyed technology (error-free installation)
- Short Circuit resistance\*
- Hole inspection to ease installation control
- Chamfer barrel to assist installation work



#### Material

- Copper. Comply to EN13600

#### Surface

- Tin plated

#### Certification

- Comply to IEC 61238 - CE declaration

Nominal X-Section [mm <sup>2</sup> ]	Stud Bolt Size	Part Number	GID Number	Die selection			Dimensions					PCs per box	
				Colour code	Die code	Compression Tooling	L	B	C	D	F		
6	M6	6M6-A-45	7TAA302030R0031	Orange	⊠6	6TON06M		4.0	13.0	9.8	1.6	6.0	100
	M8	6M8-A-45	7TAA302030R0032						16.0	13.0	1.2	7.0	
10	M6	10M6-A-45	7TAA302030R0004	Purple	⊠8	6TON08M	15508M	5.0	13.0	11.5	3.0	6.0	50
	M8	10M8-A-45	7TAA302030R0005						16.0	13.5	2.2	7.0	
16	M6	16M6-A-45	7TAA302030R0006	Yellow	⊠9	6TON09M	15509M	6.0	16.0	13.0	3.0	7.0	50
	M8	16M8-A-45	7TAA302030R0007						16.0	13.0	3.0	7.0	
25	M6	25M6-A-45	7TAA302030R0008	White	⊠11	6TON11M	15511M	8.0	17.0	16.0	3.0	7.0	50
	M8	25M8-A-45	7TAA302030R0009						18.0	16.0	3.0	8.0	
	M10	25M10-A-45	7TAA302030R0010						22.0	17.0	2.7	10.0	
35	M6	35M6-A-45	7TAA302030R0011	Red	⊠13	6TON13M	15513M	9.0	20.0	18.0	4.2	10.0	10
	M8	35M8-A-45	7TAA302030R0012						20.0	18.0	4.2	10.0	
	M10	35M10-A-45	7TAA302030R0013						21.0	18.0	4.2	10.0	
50	M8	50M8-A-45	7TAA302030R0015	Blue	⊠14,5	6TON145M	155145M	11.0	23.0	21.0	3.5	11.0	10
	M10	50M10-A-45	7TAA302030R0014						23.0	21.0	3.5	11.0	
	M12	50M12-A-45	7TAA302030R0000						26.0	22.0	3.0	12.0	
70	M8	70M8-A-45	7TAA302030R0026	Brown	⊠17	6TON17M	15517M	13.0	23.0	25.0	4.0	11.0	10
	M10	70M10-A-45	7TAA302030R0027						23.0	25.0	4.0	11.0	
	M12	70M12-A-45	7TAA302030R0016						26.0	25.0	4.0	12.0	
95	M10	95M10-A-45	7TAA302030R0001	Green	⊠20	6TON20M	15520M	15.0	32.0	29.0	5.0	15.0	10
	M12	95M12-A-45	7TAA302030R0002						32.0	29.0	5.0	15.0	
	M16	95M16-A-45	7TAA302030R0003						32.0	29.0	5.0	15.0	
120	M10	120M10-A-45	7TAA302030R0017	Pink	⊠22	6TON22M	15522M	17.0	32.0	32.0	5.0	15.0	10
	M12	120M12-A-45	7TAA302030R0018						32.0	32.0	5.0	15.0	
	M16	120M16-A-45	7TAA302030R0019						32.0	32.0	5.0	15.0	
150	M10	150M10-A-45	7TAA302030R0020	Black	⊠25	6TON25M	15525M	19.0	32.0	36.0	6.0	15.0	10
	M12	150M12-A-45	7TAA302030R0021						32.0	36.0	6.0	15.0	
	M16	150M16-A-45	7TAA302030R0022						32.0	36.0	6.0	15.0	
185	M10	185M10-A-45	7TAA302030R0023	Orange	⊠27	6TON27M	15527M	21.0	32.0	39.0	6.0	15.0	6
	M12	185M12-A-45	7TAA302030R0024						32.0	39.0	6.0	15.0	
	M16	185M16-A-45	7TAA302030R0025						32.0	39.0	6.0	15.0	
240	M10	240M10-A-45	7TAA302030R0028	Purple	⊠30	6TON30M	15530M	24.0	39.0	44.0	6.0	19.0	6
	M12	240M12-A-45	7TAA302030R0029						39.0	44.0	6.0	19.0	
	M16	240M16-A-45	7TAA302030R0030						39.0	44.0	6.0	19.0	

\* Six short-circuits are applied after the 200th heat cycle (IEC 61238-1 total of 1000 Heat cycle test). The short-circuit current level shall be such that it raises the bare reference conductors from a temperature of ≤35 °C to a temperature between 250 °C and 270 °C

# Color-Keyed® lugs

## Copper / 90 degrees – one hole type



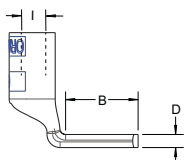
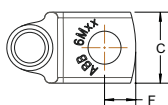
### Technical Information

#### Application

- Copper tin plated Metric Compression Lug for power cables for rated voltage up to 36kV. From 6 to 240 mm<sup>2</sup>
- Intended for electricity distribution or industrial networks in which they can be subjected to short-circuits of relatively high intensity and duration
- Specially designed to accommodate both stranded (class 2) and flexible (class 5) power cables according to IEC 60228

#### Characteristics

- 90 degrees - one hole lug with Color Keyed technology (error-free installation)
- Short Circuit resistance\*
- Hole inspection to ease installation control
- Chamfer barrel to assist installation work



#### Material

- Copper. Comply to EN13600

#### Surface

- Tin plated

#### Certification

- Comply to IEC 61238 - CE declaration

Nominal X-Section [mm <sup>2</sup> ]	Stud Bolt Size	Part Number	GID Number	Die selection				Dimensions					PCs per box
				Colour code	Die code	Compression Tooling		I	B	C	D	F	
						H-CK 240 B-CK 240 T-CK 240	H-CK 400 B-CK 400 T-CK 400	[mm]	[mm]	[mm]	[mm]	[mm]	
6	M6	6M6-A-90	7TAA302040R0031	Orange	⊕6	6TON06M		4.0	13.0	9.8	1.6	6.0	100
	M8	6M8-A-90	7TAA302040R0032						16.0	13.0	1.2	7.0	
10	M6	10M6-A-90	7TAA302040R0000	Purple	⊕8	6TON08M	15508M	5.0	13.0	11.5	3.0	6.0	50
	M8	10M8-A-90	7TAA302040R0001						16.0	13.5	2.2	7.0	
16	M6	16M6-A-90	7TAA302040R0002	Yellow	⊕9	6TON09M	15509M	6.0	16.0	13.0	3.0	7.0	50
	M8	16M8-A-90	7TAA302040R0003						16.0	13.0	3.0	7.0	
25	M6	25M6-A-90	7TAA302040R0004	White	⊕11	6TON11M	15511M	8.0	17.0	16.0	3.0	7.0	50
	M8	25M8-A-90	7TAA302040R0005						18.0	16.0	3.0	8.0	
	M10	25M10-A-90	7TAA302040R0006						22.0	17.0	2.7	10.0	
35	M6	35M6-A-90	7TAA302040R0007	Red	⊕13	6TON13M	15513M	9.0	20.0	18.0	4.2	10.0	10
	M8	35M8-A-90	7TAA302040R0008						20.0	18.0	4.2	10.0	
	M10	35M10-A-90	7TAA302040R0009						21.0	18.0	4.2	10.0	
50	M8	50M8-A-90	7TAA302040R0010	Blue	⊕14,5	6TON145M	155145M	11.0	23.0	21.0	3.5	11.0	10
	M10	50M10-A-90	7TAA302040R0011						23.0	21.0	3.5	11.0	
	M12	50M12-A-90	7TAA302040R0030						26.0	22.0	3.0	12.0	
70	M8	70M8-A-90	7TAA302040R0012	Brown	⊕17	6TON17M	15517M	13.0	23.0	25.0	4.0	11.0	10
	M10	70M10-A-90	7TAA302040R0013						23.0	25.0	4.0	11.0	
	M12	70M12-A-90	7TAA302040R0026						26.0	25.0	4.0	12.0	
95	M10	95M10-A-90	7TAA302040R0014	Green	⊕20	6TON20M	15520M	15.0	32.0	29.0	5.0	15.0	10
	M12	95M12-A-90	7TAA302040R0015						32.0	29.0	5.0	15.0	
	M16	95M16-A-90	7TAA302040R0016						32.0	29.0	5.0	15.0	
120	M10	120M10-A-90	7TAA302040R0017	Pink	⊕22	6TON22M	15522M	17.0	32.0	32.0	5.0	15.0	10
	M12	120M12-A-90	7TAA302040R0018						32.0	32.0	5.0	15.0	
	M16	120M16-A-90	7TAA302040R0019						32.0	32.0	5.0	15.0	
150	M10	150M10-A-90	7TAA302040R0020	Black	⊕25	6TON25M	15525M	19.0	32.0	36.0	6.0	15.0	10
	M12	150M12-A-90	7TAA302040R0021						32.0	36.0	6.0	15.0	
	M16	150M16-A-90	7TAA302040R0022						32.0	36.0	6.0	15.0	
185	M10	185M10-A-90	7TAA302040R0027	Orange	⊕27	6TON27M	15527M	21.0	32.0	39.0	6.0	15.0	6
	M12	185M12-A-90	7TAA302040R0028						32.0	39.0	6.0	15.0	
	M16	185M16-A-90	7TAA302040R0029						32.0	39.0	6.0	15.0	
240	M10	240M10-A-90	7TAA302040R0023	Purple	⊕30	6TON30M	15530M	24.0	39.0	44.0	6.0	19.0	6
	M12	240M12-A-90	7TAA302040R0024						39.0	44.0	6.0	19.0	
	M16	240M16-A-90	7TAA302040R0025						39.0	44.0	6.0	19.0	

\* Six short-circuits are applied after the 200th heat cycle (IEC 61238-1 total of 1000 Heat cycle test). The short-circuit current level shall be such that it raises the bare reference conductors from a temperature of ≤35 °C to a temperature between 250 °C and 270 °C

# Color-Keyed® lugs

## Copper / Straight – two hole type



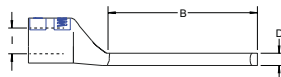
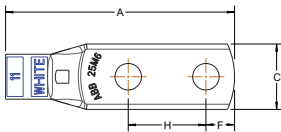
### Technical Information

#### Application

- Copper tin plated Metric Compression Lug for power cables for rated voltage up to 36kV. From 25 to 300 mm<sup>2</sup>
- Intended for electricity distribution or industrial networks in which they can be subjected to short-circuits of relatively high intensity and duration
- Specially designed to accommodate both stranded (class 2) and flexible (class 5) power cables according to IEC 60228

#### Characteristics

- Straight - two holes lug with Color Keyed technology (error-free installation)
- Short Circuit resistance\*
- Hole inspection to ease installation control
- Chamfer barrel to assist installation work



#### Material

- Copper. Comply to EN13600

#### Surface

- Tin plated

#### Certification

- Comply to IEC 61238 - CE declaration

Nominal X-Section [mm <sup>2</sup> ]	Stud Bolt Size	Part Number	GID Number	Die selection			Dimensions							PCs per box	
				Colour code	Die code	Compression Tooling	I	A	B	C	D	F	H		
25	M6	25M6-A-2	7TAA302020R0000	White	11	H-CK 240 B-CK 240 T-CK 240	H-CK 400 B-CK 400 T-CK 400	8.0	56.0	38.0	16.0	3.0	7.0	19.0	50
	M8	25M8-A-2	7TAA302020R0001			6TON11M	15511M		66.0	48.0	16.0	3.0	10.0	25.0	
35	M6	35M6-A-2	7TAA302020R0002	Red	13			9.0	61.6	38.0	18.0	4.2	7.0	19.0	50
	M8	35M8-A-2	7TAA302020R0003						6TON13M	15513M	71.7	48.0	18.0	4.2	
50	M10	50M10-A-2	7TAA302020R0004	Blue	14.5			11.0	73.7	46.9	21.0	3.5	8.9	25.0	10
	M12	50M12-A-2	7TAA302020R0005						6TON145M	155145M	96.7	70.0	22.0	3.5	
70	M10	70M10-A-2	7TAA302020R0006	Brown	17			13.0	80.6	49.0	25.0	4.0	11.0	25.0	10
	M12	70M12-A-2	7TAA302020R0007						6TON17M	15517M	101.7	70.0	25.0	4.0	
95	M10	95M10-A-2	7TAA302020R0008	Green	20			15.0	90.0	53.0	29.0	5.0	11.0	25.0	10
	M12	95M12-A-2	7TAA302020R0009						6TON20M	15520M	110.0	73.0	40.0	5.0	
120	M10	120M10-A-2	7TAA302020R0010	Pink	22			17.0	98.0	57.0	32.0	5.0	14.0	25.0	10
	M12	120M12-A-2	7TAA302020R0011						6TON22M	15522M	104.0	63.0	32.0	5.0	
150	M10	150M10-A-2	7TAA302020R0012	Black	25			19.0	102.6	55.0	36.0	6.0	11.0	25.0	10
	M12	150M12-A-2	7TAA302020R0013						6TON25M	15525M	120.7	73.0	36.0	6.0	
185	M10	185M10-A-2	7TAA302020R0014	Orange	27			21.0	111.0	57.0	39.0	6.0	13.0	25.0	6
	M12	185M12-A-2	7TAA302020R0015						6TON27M	15527M	128.6	75.0	39.0	6.0	
240	M10	240M10-A-2	7TAA302020R0016	Purple	30			24.0	115.0	59.0	44.0	6.0	12.0	25.0	6
	M12	240M12-A-2	7TAA302020R0017						6TON30M	15530M	130.0	74.3	44.0	6.0	
300	M10	300M10-A-2	7TAA302020R0019	Yellow	32			26.0	119.0	57.0	48.0	6.0	12.0	25.0	6
	M12	300M12-A-2	7TAA302020R0018						6TON32M	15532M	137.1	75.0	48.0	6.0	


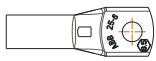


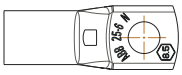



\* Six short-circuits are applied after the 200th heat cycle (IEC 61238-1 total of 1000 Heat cycle test). The short-circuit current level shall be such that it raises the bare reference conductors from a temperature of ≤35 °C to a temperature between 250 °C and 270 °C

# Spec-Kon® lugs

## Quick guide



②-⑤  
60288

Type	Standard barrel	Long barrel	Wire sizes in mm <sup>2</sup>														
			6	10	16	25	35	50	70	95	120	150	185	240	300	400	
One hole	Straight 		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	45 degrees 		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	90 degrees 		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Narrow tongue straight 		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Two holes	Straight 					X	X	X	X	X	X	X	X	X	X	X	X
	Butt splice 		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

# Spec-Kon® Dies selector

## Quick guide

Conductor Size [mm <sup>2</sup> ]	Spec-Kon®		
	Lug Part number	H-CK 240 B-CK 240 T-CK 240	H-CK 400 B-CK 400 T-CK 400
6	6Mx	6TON06M	
10	10Mx	6TON07M	15507M
16	16Mx	6TON075M	155075M
25	25Mx	6TON085M	155085M
35	35Mx	6TON11M	15511M
50	50Mx	6TON12M	15512M
70	70Mx	6TON145M	155145M
95	95Mx	6TON15M	15515M
120	120Mx	6TON18M	15518M
150	150Mx	6TON21M	15521M
185	185Mx	6TON23M	15523M
240	240Mx		15526M
300	300Mx		15529M
400	400Mx		15536M

\* For other tools compatibility, please contact your ABB local contact or check our website for your local contact number

<http://new.abb.com/low-voltage/products/connectivity-grounding>

# Spec-Kon® lugs

## Copper / Straight – one hole type



### Technical Information

#### Application

- Copper Tin plated Metric Compression Lug for power cables for rated voltage up to 36kV. From 6 to 400 mm<sup>2</sup>
- Specially designed to accommodate both stranded (class 2) and flexible (class 5) power cables according to IEC 60228

#### Characteristics

- Straight - one hole lug with die code making to assist installation work and inspection
- Hole inspection to ease installation control
- Chamfer barrel to assist installation work

#### Material

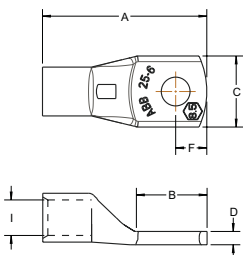
- Copper. Comply to EN13600

#### Surface

- Tin plated

#### Certification

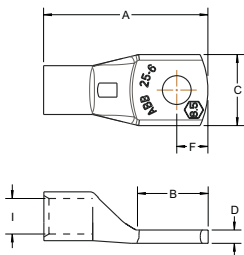
- Comply to IEC 61238 - CE declaration



Nominal X-Section [mm <sup>2</sup> ]	Stud Bolt Size	Part Number	GID Number	Die selection		Dimensions						PCs per box
				Die code	Compression Tooling	l	A	B	C	D	F	
6	M5	6M5	7TCA302310R0017				28.2	14.0	10.0	1.2	6.2	100
	M6	6M6	7TCA302310R0000	⊕6	6TON06M	3.8	28.2	14.0	10.8	1.2	6.2	
	M8	6M8	7TCA302310R0001				32.0	16.0	13.0	1.0	8.0	
10	M5	10M5	7TCA302310R0002				32.3	15.8	11.0	1.2	6.0	100
	M6	10M6	7TCA302310R0003	⊕7	6TON07M	4.5	32.3	15.8	11.0	1.2	6.0	
	M8	10M8	7TCA302310R0004				32.3	16.5	13.0	1.1	8.0	
	M10	10M10	7TCA302310R0005			4.4	32.3	16.5	14.5	1.7	8.0	
16	M5	16M5	7TCA302310R0006				35.7	16.8	13.0	1.3	6.5	100
	M6	16M6	7TCA302310R0007	⊕7.5	6TON075M	6.0	35.7	16.8	13.0	1.3	6.5	
	M8	16M8	7TCA302310R0008				35.7	16.8	13.0	1.2	6.5	
	M10	16M10	7TCA302310R0009				37.9	18.2	15.0	1.1	8.0	
25	M6	25M6	7TCA302310R0010				40.0	18.0	14.0	1.6	8.0	100
	M8	25M8	7TCA302310R0011	⊕8.5	6TON085M	7.3	40.0	18.0	15.5	1.6	8.0	
	M10	25M10	7TCA302310R0012				40.0	18.0	15.5	1.5	8.0	
35	M6	35M6	7TCA302310R0013				44.0	19.5	15.5	2.1	8.5	100
	M8	35M8	7TCA302310R0014	⊕11	6TON11M	8.9	44.0	19.5	15.5	2.1	8.5	
	M10	35M10	7TCA302310R0015				44.0	19.5	15.5	2.1	8.5	
	M12	35M12	7TCA302310R0016				49.5	25.0	21.5	1.5	11.5	
50	M6	50M6	7TCA302320R0000				49.0	21.5	18.0	2.5	10.0	50
	M8	50M8	7TCA302320R0001	⊕12	6TON12M	9.8	49.0	21.5	18.0	2.5	10.0	
	M10	50M10	7TCA302320R0002				49.0	21.5	18.0	2.5	10.0	
	M12	50M12	7TCA302320R0003				52.5	25.0	23.0	1.8	11.0	
70	M6	70M6	7TCA302320R0004				56.0	26.0	20.8	2.9	11.5	50
	M8	70M8	7TCA302320R0005	⊕14.5	6TON145M	12.2	56.0	26.0	20.8	2.9	11.5	
	M10	70M10	7TCA302320R0006				56.0	26.0	20.8	2.9	11.5	
	M12	70M12	7TCA302320R0007				56.0	26.0	20.8	2.8	11.5	
95	M8	95M8	7TCA302320R0008				62.0	27.5	24.5	3.1	13.0	50
	M10	95M10	7TCA302320R0009	⊕15	6TON15M	13.5	62.0	27.5	24.5	3.1	13.0	
	M12	95M12	7TCA302320R0010				62.0	27.5	24.5	3.0	13.0	
	M16	95M16	7TCA302320R0011				62.0	27.5	24.5	2.9	13.0	

# Spec-Kon® lugs

## Copper / Straight – one hole type



Nominal X-Section	Stud Bolt Size	Part Number	GID Number	Die selection			Dimensions						PCs per box
				Die code	Compression Tooling		I	A	B	C	D	F	
[mm <sup>2</sup> ]					H-CK 240 B-CK 240 T-CK 240	H-CK 400 B-CK 400 T-CK 400	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
120	M8	120M8	7TCA302320R0012	18	6TON18M	15518M	15.2	66.5	28.0	27.5	3.5	13.5	50
	M10	120M10	7TCA302320R0013					66.5	28.0	27.5	3.5	13.5	
	M12	120M12	7TCA302320R0014					66.5	28.0	27.5	3.5	13.5	
	M16	120M16	7TCA302320R0015					66.5	28.0	27.5	3.4	13.5	
150	M8	150M8	7TCA302330R0000	21	6TON21M	15521M	16.5	73.0	33.5	30.5	4.5	15.5	20
	M10	150M10	7TCA302330R0001					73.0	33.5	30.5	4.5	15.5	
	M12	150M12	7TCA302330R0002					73.0	33.5	30.5	4.5	15.5	
	M16	150M16	7TCA302330R0003					73.0	33.5	30.5	4.3	15.5	
	M20	150M20	7TCA302330R0004					76.5	37.0	30.5	4.3	15.5	
185	M10	185M10	7TCA302330R0005	23	6TON23M	15523M	18.6	75.0	33.5	33.5	4.6	16.0	20
	M12	185M12	7TCA302330R0006					75.0	33.5	33.5	4.6	16.0	
	M16	185M16	7TCA302330R0007					75.0	33.5	33.5	4.4	16.0	
	M20	185M20	7TCA302330R0008					80.0	38.5	33.5	4.4	17.5	
240	M10	240M10	7TCA302330R0009	26		15526M	20.8	89.0	39.0	37.5	5.3	18.0	20
	M12	240M12	7TCA302330R0010					89.0	39.0	37.5	5.3	18.0	
	M16	240M16	7TCA302330R0011					89.0	39.0	37.5	5.3	18.0	
	M20	240M20	7TCA302330R0012					89.0	39.0	37.5	5.2	18.0	
300	M10	300M10	7TCA302330R0013	29		15529M	23.5	96.5	39.0	42.5	5.4	18.0	10
	M12	300M12	7TCA302330R0014					96.5	39.0	42.5	5.4	18.0	
	M16	300M16	7TCA302330R0015					96.5	39.0	42.5	5.4	18.0	
	M20	300M20	7TCA302330R0016					96.5	39.0	42.5	5.3	18.0	
400	M12	400M12	7TCA302330R0017	36		15536M	27.0	109.5	44.0	49.5	7.5	20.0	5
	M16	400M16	7TCA302330R0018					109.5	44.0	49.5	7.5	20.0	
	M20	400M20	7TCA302330R0019					109.5	44.0	49.5	7.5	20.0	

# Spec-Kon® lugs

## Copper / 45 degrees – one hole type



### Technical Information

#### Application

- Copper Tin plated Metric Compression Lug for power cables for rated voltage up to 36kV. From 6 to 400 mm<sup>2</sup>
- Specially designed to accommodate both stranded (class 2) and flexible (class 5) power cables according to IEC 60228

#### Characteristics

- 45 degrees - one hole lug with die code making to assist installation work and inspection
- Hole inspection to ease installation control
- Chamfer barrel to assist installation work

#### Material

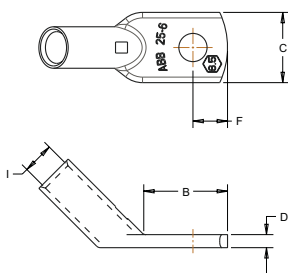
- Copper. Comply to EN13600

#### Surface

- Tin plated

#### Certification

- Comply to IEC 61238 - CE declaration

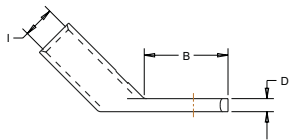
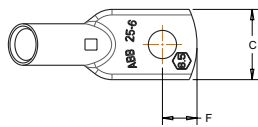


Nominal X-Section [mm <sup>2</sup> ]	Stud Bolt Size	Part Number	GID Number	Die selection		Dimensions					PCs per box	
				Die code	Compression Tooling	I	B	C	D	F		
6	M5	6M5-45	7TCA302340R0000									100
	M6	6M6-45	7TCA302340R0001	⊠6	6TON06M	3.8	14.0	10.8	1.2	6.2		
	M8	6M8-45	7TCA302340R0002				16.0	13.0	1.0	8.0		
10	M5	10M5-45	7TCA302340R0003									100
	M6	10M6-45	7TCA302340R0004	⊠7	6TON07M	15507M	4.5	15.8	11.0	1.2	6.0	
	M8	10M8-45	7TCA302340R0005				16.5	13.0	1.1	8.0		
	M10	10M10-45	7TCA302340R0006				4.4	16.5	14.5	1.7	8.0	
16	M5	16M5-45	7TCA302340R0007									100
	M6	16M6-45	7TCA302340R0008	⊠7.5	6TON075M	155075M	6.0	16.8	13.0	1.3	6.5	
	M8	16M8-45	7TCA302340R0009				16.8	13.0	1.2	6.5		
	M10	16M10-45	7TCA302340R0010				18.2	15.0	1.1	8.0		
25	M6	25M6-45	7TCA302340R0011									100
	M8	25M8-45	7TCA302340R0012	⊠8.5	6TON085M	155085M	7.3	18.0	15.5	1.6	8.0	
	M10	25M10-45	7TCA302340R0013				18.0	15.5	1.5	8.0		
35	M6	35M6-45	7TCA302340R0014									100
	M8	35M8-45	7TCA302340R0015	⊠11	6TON11M	15511M	8.9	19.5	15.5	2.1	8.5	
	M10	35M10-45	7TCA302340R0016				19.5	15.5	2.1	8.5		
	M12	35M12-45	7TCA302340R0017				25.0	21.5	1.5	11.5		
50	M6	50M6-45	7TCA302350R0000									50
	M8	50M8-45	7TCA302350R0001	⊠12	6TON12M	15512M	9.8	21.5	18.0	2.5	10.0	
	M10	50M10-45	7TCA302350R0002				21.5	18.0	2.5	10.0		
	M12	50M12-45	7TCA302350R0003				25.0	23.0	1.8	11.0		
70	M6	70M6-45	7TCA302350R0004									50
	M8	70M8-45	7TCA302350R0005	⊠14.5	6TON145M	155145M	12.2	26.0	20.8	2.9	11.5	
	M10	70M10-45	7TCA302350R0006				26.0	20.8	2.9	11.5		
	M12	70M12-45	7TCA302350R0007				26.0	20.8	2.8	11.5		
95	M8	95M8-45	7TCA302350R0008									50
	M10	95M10-45	7TCA302350R0009	⊠15	6TON15M	15515M	13.5	27.5	24.5	3.1	13.0	
	M12	95M12-45	7TCA302350R0010				27.5	24.5	3.1	13.0		
	M16	95M16-45	7TCA302350R0011				27.5	24.5	2.9	13.0		



# Spec-Kon® lugs

## Copper / 45 degrees – one hole type



Nominal X-Section	Stud Bolt Size	Part Number	GID Number	Die selection		Dimensions					PCs per box	
				Die code	Compression Tooling	I	B	C	D	F		
[mm <sup>2</sup> ]					H-CK 240 B-CK 240 T-CK 240	H-CK 400 B-CK 400 T-CK 400	[mm]	[mm]	[mm]	[mm]	[mm]	
120	M8	120M8-45	7TCA302350R0012	⊠18	6TON18M	15518M	15.2	28.0	27.5	3.5	13.5	50
	M10	120M10-45	7TCA302350R0013					28.0	27.5	3.5	13.5	
	M12	120M12-45	7TCA302350R0014					28.0	27.5	3.5	13.5	
	M16	120M16-45	7TCA302350R0015					28.0	27.5	3.4	13.5	
150	M8	150M8-45	7TCA302360R0000	⊠21	6TON21M	15521M	16.5	33.5	30.5	4.5	15.5	50
	M10	150M10-45	7TCA302360R0001					33.5	30.5	4.5	15.5	
	M12	150M12-45	7TCA302360R0002					33.5	30.5	4.5	15.5	
	M16	150M16-45	7TCA302360R0003					33.5	30.5	4.3	15.5	
	M20	150M20-45	7TCA302360R0004					37.0	30.5	4.3	15.5	
185	M10	185M10-45	7TCA302360R0005	⊠23	6TON23M	15523M	18.6	33.5	33.5	4.6	16.0	20
	M12	185M12-45	7TCA302360R0006					33.5	33.5	4.6	16.0	
	M16	185M16-45	7TCA302360R0007					33.5	33.5	4.4	16.0	
	M20	185M20-45	7TCA302360R0008					38.5	33.5	4.4	17.5	
240	M10	240M10-45	7TCA302360R0009	⊠26		15526M	20.8	39.0	37.5	5.3	18.0	20
	M12	240M12-45	7TCA302360R0010					39.0	37.5	5.3	18.0	
	M16	240M16-45	7TCA302360R0011					39.0	37.5	5.3	18.0	
	M20	240M20-45	7TCA302360R0012					39.0	37.5	5.2	18.0	
300	M10	300M10-45	7TCA302360R0013	⊠29		15529M	23.5	39.0	42.5	5.4	18.0	10
	M12	300M12-45	7TCA302360R0014					39.0	42.5	5.4	18.0	
	M16	300M16-45	7TCA302360R0015					39.0	42.5	5.4	18.0	
	M20	300M20-45	7TCA302360R0016					39.0	42.5	5.3	18.0	
400	M12	400M12-45	7TCA302360R0017	⊠36		15536M	27.0	44.0	49.5	7.5	20.0	5
	M16	400M16-45	7TCA302360R0018					44.0	49.5	7.5	20.0	
	M20	400M20-45	7TCA302360R0019					44.0	49.5	7.5	20.0	

# Spec-Kon® lugs

## Copper / 90 degrees – one hole type



### Technical Information

#### Application

- Copper Tin plated Metric Compression Lug for power cables for rated voltage up to 36kV. From 6 to 400 mm<sup>2</sup>
- Specially designed to accommodate both stranded (class 2) and flexible (class 5) power cables according to IEC 60228

#### Characteristics

- 90 degrees - one hole lug with die code making to assist installation work and inspection
- Hole inspection to ease installation control
- Chamfer barrel to assist installation work

#### Material

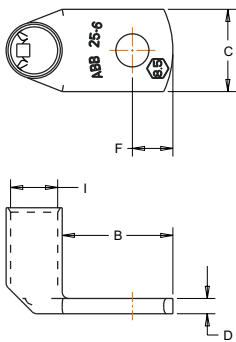
- Copper. Comply to EN13600

#### Surface

- Tin plated

#### Certification

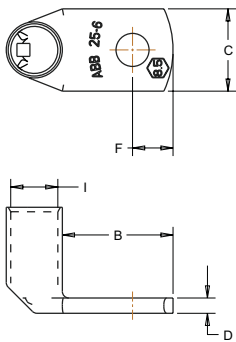
- Comply to IEC 61238 - CE declaration



Nominal X-Section [mm <sup>2</sup> ]	Stud Bolt Size	Part Number	GID Number	Die selection		Dimensions					PCs per box		
				Die code	Compression Tooling	I [mm]	B [mm]	C [mm]	D [mm]	F [mm]			
6	M5	6M5-90	7TCA302370R0000									100	
	M6	6M6-90	7TCA302370R0001	⊠6	6TON06M	3,8	14.0	10.8	1.2	6.2			
	M8	6M8-90	7TCA302370R0002				16.0	13.0	1.0	8.0			
10	M5	10M5-90	7TCA302370R0003									100	
	M6	10M6-90	7TCA302370R0004	⊠7	6TON07M	15507M	4,5	15.8	11.0	1.2	6.0		
	M8	10M8-90	7TCA302370R0005					16.5	13.0	1.1	8.0		
	M10	10M10-90	7TCA302370R0006				4,4	16.5	14.5	1.7	8.0		
16	M5	16M5-90	7TCA302370R0007									100	
	M6	16M6-90	7TCA302370R0008	⊠7.5	6TON075M	155075M	6,0	16.8	13.0	1.3	6.5		
	M8	16M8-90	7TCA302370R0009					16.8	13.0	1.2	6.5		
	M10	16M10-90	7TCA302370R0010					18.2	15.0	1.1	8.0		
25	M6	25M6-90	7TCA302370R0011									100	
	M8	25M8-90	7TCA302370R0012	⊠8.5	6TON085M	155085M	7,3	18.0	14.0	1.6	8.0		
	M10	25M10-90	7TCA302370R0013					18.0	15.5	1.5	8.0		
35	M6	35M6-90	7TCA302370R0014									100	
	M8	35M8-90	7TCA302370R0015	⊠11	6TON11M	15511M	8,9	19.5	15.5	2.1	8.5		
	M10	35M10-90	7TCA302370R0016					19.5	15.5	2.1	8.5		
	M12	35M12-90	7TCA302370R0017					25.0	21.5	1.5	11.5		
50	M6	50M6-90	7TCA302380R0000									50	
	M8	50M8-90	7TCA302380R0001	⊠12	6TON12M	15512M	9,8	21.5	18.0	2.5	10.0		
	M10	50M10-90	7TCA302380R0002					21.5	18.0	2.5	10.0		
	M12	50M12-90	7TCA302380R0003					25.0	23.0	1.8	11.0		
70	M6	70M6-90	7TCA302380R0004									50	
	M8	70M8-90	7TCA302380R0005	⊠14.5	6TON145M	155145M	12,2	26.0	20.8	2.9	11.5		
	M10	70M10-90	7TCA302380R0006					26.0	20.8	2.9	11.5		
	M12	70M12-90	7TCA302380R0007					26.0	20.8	2.8	11.5		
95	M8	95M8-90	7TCA302380R0008									50	
	M10	95M10-90	7TCA302380R0009	⊠15	6TON15M	15515M	13,5	27.5	24.5	3.1	13.0		
	M12	95M12-90	7TCA302380R0010					27.5	24.5	3.0	13.0		
	M16	95M16-90	7TCA302380R0011					27.5	24.5	2.9	13.0		

# Spec-Kon® lugs

## Copper / 90 degrees – one hole type



Nominal X-Section	Stud Bolt Size	Part Number	GID Number	Die selection		Dimensions					PCs per box	
				Die code	Compression Tooling	I	B	C	D	F		
[mm²]					H-CK 240 B-CK 240 T-CK 240	H-CK 400 B-CK 400 T-CK 400	[mm]	[mm]	[mm]	[mm]	[mm]	
120	M8	120M8-90	7TCA302380R0012	18	6TON18M	15518M	15,2	28.0	27.5	3.5	13.5	50
	M10	120M10-90	7TCA302380R0013					28.0	27.5	3.5	13.5	
	M12	120M12-90	7TCA302380R0014					28.0	27.5	3.5	13.5	
	M16	120M16-90	7TCA302380R0015					28.0	27.5	3.4	13.5	
150	M8	150M8-90	7TCA302390R0000	21	6TON21M	15521M	16,5	33.5	30.5	4.5	15.5	20
	M10	150M10-90	7TCA302390R0001					33.5	30.5	4.5	15.5	
	M12	150M12-90	7TCA302390R0002					33.5	30.5	4.5	15.5	
	M16	150M16-90	7TCA302390R0003					33.5	30.5	4.3	15.5	
	M20	150M20-90	7TCA302390R0004					37.0	30.5	4.3	15.5	
185	M10	185M10-90	7TCA302390R0005	23	6TON23M	15523M	18,6	33.5	33.5	4.6	16.0	20
	M12	185M12-90	7TCA302390R0006					33.5	33.5	4.6	16.0	
	M16	185M16-90	7TCA302390R0007					33.5	33.5	4.4	16.0	
	M20	185M20-90	7TCA302390R0008					38.5	33.5	4.4	17.5	
240	M10	240M10-90	7TCA302390R0009	26		15526M	20,8	39.0	37.5	5.3	18.0	20
	M12	240M12-90	7TCA302390R0010					39.0	37.5	5.3	18.0	
	M16	240M16-90	7TCA302390R0011					39.0	37.5	5.3	18.0	
	M20	240M20-90	7TCA302390R0012					39.0	37.5	5.2	18.0	
300	M10	300M10-90	7TCA302390R0013	29		15529M	23,5	39.0	42.5	5.4	18.0	10
	M12	300M12-90	7TCA302390R0014					39.0	42.5	5.4	18.0	
	M16	300M16-90	7TCA302390R0015					39.0	42.5	5.4	18.0	
	M20	300M20-90	7TCA302390R0016					39.0	42.5	5.3	18.0	
400	M12	400M12-90	7TCA302390R0017	36		15536M	27,0	44.0	49.5	7.5	20.0	5
	M16	400M16-90	7TCA302390R0018					44.0	49.5	7.5	20.0	
	M20	400M20-90	7TCA302390R0019					44.0	49.5	7.5	20.0	

# Spec-Kon® lugs

## Copper / Straight long barrel – one hole type



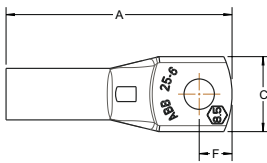
### Technical Information

#### Application

- Copper Tin plated Metric Compression Lug for power cables for rated voltage up to 36kV. From 6 to 400 mm<sup>2</sup>
- Specially designed to accommodate both stranded (class 2) and flexible (class 5) power cables according to IEC 60228

#### Characteristics

- Straight long barrel - one hole lug with die code making to assist installation work and inspection
- Hole inspection to ease installation control
- Chamfer barrel to assist installation work



#### Material

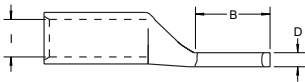
- Copper. Comply to EN13600

#### Surface

- Tin plated

#### Certification

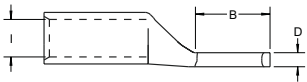
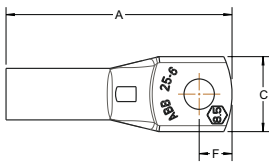
- Comply to IEC 61238 - CE declaration



Nominal X-Section [mm <sup>2</sup> ]	Stud Bolt Size	Part Number	GID Number	Die selection		Dimensions						PCs per box	
				Die code	Compression Tooling		I [mm]	A [mm]	B [mm]	C [mm]	D [mm]		F [mm]
					H-CK light B-CK light T-CK light	H-CK 400 B-CK 400 T-CK 400							
6	M5	6M5-LB	7TCA302400R0000	⊕6	6TON06M		3.8	38.7	14.0	10.0	1.2	6.2	100
	M6	6M6-LB	7TCA302400R0001					38.7	14.0	10.8	1.2	6.2	
	M8	6M8-LB	7TCA302400R0002					41.0	16.0	13.0	1.0	8.0	
10	M5	10M5-LB	7TCA302400R0003	⊕7	6TON07M	15507M	4.5	43.8	15.8	11.0	1.2	6.0	100
	M6	10M6-LB	7TCA302400R0004					43.8	15.8	11.0	1.2	6.0	
	M8	10M8-LB	7TCA302400R0005					43.8	16.5	13.0	1.1	8.0	
	M10	10M10-LB	7TCA302400R0006					44.4	16.5	14.5	1.7	8.0	
16	M5	16M5-LB	7TCA302400R0007	⊕7.5	6TON075M	155075M	6.0	47.2	16.8	13.0	1.3	6.5	50
	M6	16M6-LB	7TCA302400R0008					47.2	16.8	13.0	1.3	6.5	
	M8	16M8-LB	7TCA302400R0009					47.2	16.8	13.0	1.2	6.5	
	M10	16M10-LB	7TCA302400R0010					46.9	18.2	15.0	1.1	8.0	
25	M6	25M6-LB	7TCA302400R0011	⊕8.5	6TON085M	155085M	7.3	48.5	18.0	14.0	1.6	8.0	50
	M8	25M8-LB	7TCA302400R0012					48.5	18.0	15.5	1.6	8.0	
	M10	25M10-LB	7TCA302400R0013					48.5	18.0	15.5	1.5	8.0	
35	M6	35M6-LB	7TCA302400R0014	⊕11	6TON11M	15511M	8.9	57.0	19.5	15.5	2.1	8.5	50
	M8	35M8-LB	7TCA302400R0015					57.0	19.5	15.5	2.1	8.5	
	M10	35M10-LB	7TCA302400R0016					57.0	19.5	15.5	2.1	8.5	
	M12	35M12-LB	7TCA302400R0017					62.5	25.0	21.5	1.5	11.5	
50	M6	50M6-LB	7TCA302410R0000	⊕12	6TON12M	15512M	9.8	62.7	21.5	18.0	2.5	10.0	50
	M8	50M8-LB	7TCA302410R0001					62.7	21.5	18.0	2.5	10.0	
	M10	50M10-LB	7TCA302410R0002					62.7	21.5	18.0	2.5	10.0	
	M12	50M12-LB	7TCA302410R0003					66.2	25.0	23.0	1.8	11.0	
70	M6	70M6-LB	7TCA302410R0004	⊕14.5	6TON145M	155145M	12.2	68.0	26.0	20.8	2.9	11.5	25
	M8	70M8-LB	7TCA302410R0005					68.0	26.0	20.8	2.9	11.5	
	M10	70M10-LB	7TCA302410R0006					68.0	26.0	20.8	2.9	11.5	
	M12	70M12-LB	7TCA302410R0007					68.0	26.0	20.8	2.8	11.5	
95	M8	95M8-LB	7TCA302410R0008	⊕15	6TON15M	15515M	13.5	79.0	27.5	24.5	3.1	13.0	25
	M10	95M10-LB	7TCA302410R0009					79.0	27.5	24.5	3.1	13.0	
	M12	95M12-LB	7TCA302410R0010					79.0	27.5	24.5	3.0	13.0	
	M16	95M16-LB	7TCA302410R0011					79.0	27.5	24.5	2.9	13.0	

# Spec-Kon® lugs

## Copper / Straight long barrel – one hole type



Nominal X-Section	Stud Bolt Size	Part Number	GID Number	Die selection			Dimensions						PCs per box
				Die code	Compression Tooling		I	A	B	C	D	F	
[mm <sup>2</sup> ]					H-CK light B-CK light T-CK light	H-CK 400 B-CK 400 T-CK 400	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
120	M8	120M8-LB	7TCA302410R0012	18	6TON18M	15518M	15.2	80.0	28.0	27.5	3.5	13.5	25
	M10	120M10-LB	7TCA302410R0013					80.0	28.0	27.5	3.5	13.5	
	M12	120M12-LB	7TCA302410R0014					80.0	28.0	27.5	3.5	13.5	
	M16	120M16-LB	7TCA302410R0015					80.0	28.0	27.5	3.4	13.5	
150	M8	150M8-LB	7TCA302420R0000	21	6TON21M	15521M	16.5	100.0	33.5	30.5	4.5	15.5	20
	M10	150M10-LB	7TCA302420R0001					100.0	33.5	30.5	4.5	15.5	
	M12	150M12-LB	7TCA302420R0002					100.0	33.5	30.5	4.5	15.5	
	M16	150M16-LB	7TCA302420R0003					100.0	33.5	30.5	4.3	15.5	
	M20	150M20-LB	7TCA302420R0004					103.5	37.0	30.5	4.3	15.5	
185	M10	185M10-LB	7TCA302420R0005	23	6TON23M	15523M	18.6	100.3	33.5	33.5	4.6	16.0	20
	M12	185M12-LB	7TCA302420R0006					100.3	33.5	33.5	4.6	16.0	
	M16	185M16-LB	7TCA302420R0007					100.3	33.5	33.5	4.4	16.0	
	M20	185M20-LB	7TCA302420R0008					105.3	38.5	33.5	4.4	17.5	
240	M10	240M10-LB	7TCA302420R0009	26		15526M	20.8	115.0	39.0	37.5	5.3	18.0	10
	M12	240M12-LB	7TCA302420R0010					115.0	39.0	37.5	5.3	18.0	
	M16	240M16-LB	7TCA302420R0011					115.0	39.0	37.5	5.3	18.0	
	M20	240M20-LB	7TCA302420R0012					115.0	39.0	37.5	5.2	18.0	
300	M10	300M10-LB	7TCA302420R0013	29		15529M	23.5	122.7	39.0	42.5	5.4	18.0	10
	M12	300M12-LB	7TCA302420R0014					122.7	39.0	42.5	5.4	18.0	
	M16	300M16-LB	7TCA302420R0015					122.7	39.0	42.5	5.4	18.0	
	M20	300M20-LB	7TCA302420R0016					122.7	39.0	42.5	5.3	18.0	
400	M12	400M12-LB	7TCA302420R0017	36		15536M	27.0	127.2	44.0	49.5	7.5	20.0	5
	M16	400M16-LB	7TCA302420R0018					127.2	44.0	49.5	7.5	20.0	
	M20	400M20-LB	7TCA302420R0019					127.2	44.0	49.5	7.5	20.0	

# Spec-Kon® lugs

## Copper / Straight – two hole type



### Technical Information

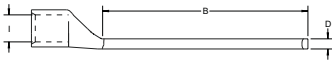
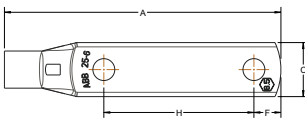
- Application**
- Copper Tin plated Metric Compression Lug for power cables for rated voltage up to 36kV. From 25 to 300 mm<sup>2</sup>
  - Specially designed to accommodate both stranded (class 2) and flexible (class 5) power cables according to IEC 60228

- Characteristics**
- Straight - two hole lug with die code making to assist installation work and inspection
  - Hole inspection to ease installation control
  - Chamfer barrel to assist installation work

**Material** • Copper. Comply to EN13600

**Surface** • Tin plated

**Certification** • Comply to IEC 61238 - CE declaration



Nominal X-Section	Stud Bolt Size	Part Number	GID Number	Die selection		Dimensions							PCs per box	
				Die code	Compression Tooling	I	A	B	C	D	F	H		
[mm <sup>2</sup> ]					H-CK light B-CK light T-CK light	H-CK 400 B-CK 400 T-CK 400	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
25	M6	25M6-2	7TCA302430R0000	8.5	6TON085M	155085M	6.90	84.5	52.5	14.0	1.6	8.0	44.5	50
	M8	25M8-2	7TCA302430R0001				7.30	84.5	52.5	15.5	1.6	8.0	44.5	
35	M8	35M8-2	7TCA302430R0002	11	6TON11M	15511M	8.20	88.8	53.0	15.5	2.1	8.5	44.5	50
	M10	35M10-2	7TCA302430R0003				8.90	88.8	52.5	15.5	2.1	8.5	44.5	
50	M10	50M10-2	7TCA302440R0000	12	6TON12M	15512M	9.80	93.5	54.5	18.0	2.5	10.0	44.5	50
	M12	50M12-2	7TCA302440R0001				9.70	97.0	55.5	23.0	1.8	11.0	44.5	
70	M10	70M10-2	7TCA302440R0002	14.5	6TON145M	155145M	12.20	100.5	56.0	20.8	2.9	11.5	44.5	25
	M12	70M12-2	7TCA302440R0003				100.5	56.0	20.8	2.8	11.5	44.5		
95	M10	95M10-2	7TCA302440R0004	15	6TON15M	15515M	13.50	107.0	58.0	24.5	3.1	13.5	44.5	25
	M12	95M12-2	7TCA302440R0005				107.0	58.0	24.5	3.0	13.5	44.5		
120	M10	120M10-2	7TCA302440R0006	18	6TON18M	15518M	15.20	111.0	59.0	27.5	3.5	14.5	44.5	25
	M12	120M12-2	7TCA302440R0007				111.0	58.0	27.5	3.5	14.5	44.5		
150	M10	150M10-2	7TCA302450R0000	21	6TON21M	15521M	16.50	118.5	61.0	30.5	4.5	16.5	44.5	20
	M12	150M12-2	7TCA302450R0001				118.5	61.0	30.5	4.5	16.5	44.5		
185	M10	185M10-2	7TCA302450R0002	23	6TON23M	15523M	18.60	120.0	62.0	33.5	4.6	17.5	44.5	20
	M12	185M12-2	7TCA302450R0003				124.5	62.0	33.5	4.6	17.5	44.5		
240	M10	240M10-2	7TCA302450R0004	26		15526M	20.80	135.0	64.0	37.5	5.3	19.5	44.5	10
	M12	240M12-2	7TCA302450R0005				135.0	64.0	37.5	5.3	19.5	44.5		
300	M10	300M10-2	7TCA302450R0006	29		15529M	23.50	144.0	64.5	42.5	5.4	20.0	44.5	10
	M12	300M12-2	7TCA302450R0007				144.0	64.5	42.5	5.4	20.0	44.5		
400	M12	400M12-2	7TCA302450R0008	36		15536M	27.0	160.0	68.0	49.5	7.5	23.5	44.5	10

# Spec-Kon® lugs

## Copper / Straight long barrel – two hole type



### Technical Information

#### Application

- Copper Tin plated Metric Compression Lug for power cables for rated voltage up to 36kV. From 25 to 300 mm<sup>2</sup>
- Specially designed to accommodate both stranded (class 2) and flexible (class 5) power cables according to IEC 60288

#### Characteristics

- Straight long barrel - two hole lug with die code making to assist installation work and inspection
- Hole inspection to ease installation control
- Chamfer barrel to assist installation work

#### Material

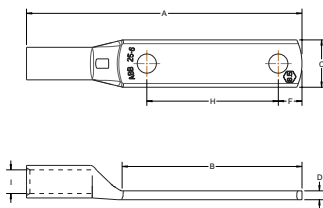
- Copper. Comply to EN13600

#### Surface

- Tin plated

#### Certification

- Comply to IEC 61238 - CE declaration



Nominal X-Section [mm <sup>2</sup> ]	Stud Bolt Size	Part Number	GiD Number	Die selection			Dimensions							PCs per box
				Die code	Compression Tooling		l	A	B	C	D	F	H	
					H-CK light B-CK light T-CK light	H-CK 400 B-CK 400 T-CK 400	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
25	M6	25M6-2LB	7TCA302460R0000	8,5	6TON085M	155085M	6.90	93.0	52.5	14.0	1.6	8.0	44.5	50
	M8	25M8-2LB	7TCA302460R0001				7.30	93.0	52.5	15.5	1.6	8.0	44.5	
35	M8	35M8-2LB	7TCA302460R0002	11	6TON11M	15511M	8.20	101.8	53.0	15.5	2.1	8.5	44.5	50
	M10	35M10-2LB	7TCA302460R0003				8.90	101.8	52.5	15.5	2.1	8.5	44.5	
50	M10	50M10-2LB	7TCA302470R0000	12	6TON12M	15512M	9.80	107.2	54.5	18.0	2.5	10.0	44.5	50
	M12	50M12-2LB	7TCA302470R0001					110.7	55.5	23.0	1.8	11.0	44.5	
70	M10	70M10-2LB	7TCA302470R0002	14,5	6TON145M	155145M	12.20	112.5	56.0	20.8	2.9	11.5	44.5	25
	M12	70M12-2LB	7TCA302470R0003					112.5	56.0	20.8	2.8	11.5	44.5	
95	M10	95M10-2LB	7TCA302470R0004	15	6TON15M	15515M	13.50	124.0	58.0	24.5	3.1	13.5	44.5	25
	M12	95M12-2LB	7TCA302470R0005					124.0	58.0	24.5	3.0	13.5	44.5	
120	M10	120M10-2LB	7TCA302470R0006	18	6TON18M	15518M	15.20	124.5	59.0	27.5	3.5	14.5	44.5	25
	M12	120M12-2LB	7TCA302470R0007					124.5	59.0	27.5	3.5	14.5	44.5	
150	M10	150M10-2LB	7TCA302480R0000	21	6TON21M	15521M	16.50	145.5	61.0	30.5	4.5	16.5	44.5	20
	M12	150M12-2LB	7TCA302480R0001					145.5	61.0	30.5	4.5	16.5	44.5	
185	M10	185M10-2LB	7TCA302480R0002	23	6TON23M	15523M	18.60	145.3	62.0	33.5	4.6	17.5	44.5	20
	M12	185M12-2LB	7TCA302480R0003					149.8	62.0	33.5	4.6	17.5	44.5	
240	M10	240M10-2LB	7TCA302480R0004	26		15526M	20.80	160.0	64.0	37.5	5.3	19.5	44.5	10
	M12	240M12-2LB	7TCA302480R0005					160.0	64.0	37.5	5.3	19.5	44.5	
300	M10	300M10-2LB	7TCA302480R0006	29		15529M	23.50	169.2	64.5	42.5	5.4	20.0	44.5	10
	M12	300M12-2LB	7TCA302480R0007					169.2	64.5	42.5	5.4	20.0	44.5	
400	M12	400M12-2LB	7TCA302480R0008	36		15536M	27.00	177.7	68.0	49.5	7.5	23.5	44.5	10

# Spec-Kon® lugs

## Copper / Straight Narrow Tongue – one hole type



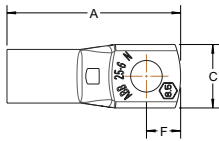
### Technical Information

#### Application

- Copper Tin plated Metric Compression Lug for Switchers and Breakers with reduced space terminal blocks. From 6 to 300 mm<sup>2</sup>
- Specially designed to accommodate both stranded (class 2) and flexible (class 5) power cables according to IEC 60228

#### Characteristics

- Straight Narrow Palm - two hole lug with die code making to assist installation work and inspection
- Hole inspection to ease installation control
- Chamfer barrel to assist installation work



#### Material

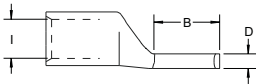
- Copper. Comply to EN13600

#### Surface

- Tin plated

#### Certification

- Comply to IEC 61238 - CE declaration

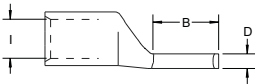
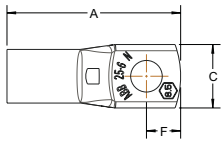


Nominal X-Section	Stud Bolt Size	Part Number	GID Number	Die selection		Dimensions						PCs per box	
				Die code	Compression Tooling	l	A	B	C	D	F		
[mm <sup>2</sup> ]					H-CK light B-CK light T-CK light	H-CK 400 B-CK 400 T-CK 400	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
6	M5	6M5-NP	7TCA302490R0000	⬡6	6TON06M		3.8	27.5	13.3	10.0	1.2	5.5	50
	M6	6M6-NP	7TCA302490R0001					27.5	13.3	10.0	1.2	5.5	
10	M5	10M5-NP	7TCA302490R0002	⬡7	6TON07M	15507M	4.5	31.8	15.3	11.0	1.3	5.5	50
	M6	10M6-NP	7TCA302490R0003					31.8	15.3	11.0	1.3	5.5	
16	M5	16M5-NP	7TCA302490R0004	⬡7.5	6TON075M	155075M	6.0	33.4	14.5	12.0	1.4	5.5	50
	M6	16M6-NP	7TCA302490R0005					33.4	14.5	12.0	1.4	5.5	
25	M6	25M6-NP	7TCA302490R0006	⬡8.5	6TON085M	155085M	7.3	35.5	14.5	13.0	1.8	5.5	25
	M8	25M8-NP	7TCA302490R0007					39.5	18.5	13.0	1.8	7.5	
35	M6	35M6-NP	7TCA302490R0008	⬡11	6TON11M	15511M	8.9	37.2	14.5	14.0	2.2	5.5	25
	M8	35M8-NP	7TCA302490R0009					41.2	18.5	14.0	2.2	7.5	
50	M6	50M6-NP	7TCA302500R0000	⬡12	6TON12M	15512M	9.8	41.2	14.5	14.0	3.1	5.5	25
	M8	50M8-NP	7TCA302500R0001					45.2	18.5	14.0	3.1	7.5	
	M10	50M10-NP	7TCA302500R0002					45.2	18.5	16.5	2.6	7.5	
70	M6	70M6-NP	7TCA302500R0003	⬡15	6TON145M	155145M	12.2	43.2	14.5	15.0	4.0	5.5	25
	M8	70M8-NP	7TCA302500R0004					47.2	18.5	15.0	4.0	7.5	
	M10	70M10-NP	7TCA302500R0005					47.2	18.5	15.0	4.0	7.5	
95	M8	95M8-NP	7TCA302500R0006	⬡15	6TON15M	15515M	13.5	52.0	18.5	16.5	4.3	7.5	25
	M10	95M10-NP	7TCA302500R0007					55.5	22.0	16.5	4.3	9.5	
	M12	95M12-NP	7TCA302500R0008					55.5	22.0	16.5	4.3	9.5	



# Spec-Kon® lugs

## Copper / Straight Narrow Tongue – one hole type



Nominal X-Section [mm <sup>2</sup> ]	Stud Bolt Size	Part Number	GID Number	Die selection			Dimensions						PCs per box
				Die code	Compression Tooling		I	A	B	C	D	F	
					H-CK light B-CK light T-CK light	H-CK 400 B-CK 400 T-CK 400	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
120	M8	120M8-NP	7TCA302500R0009					57.0	18.5	18.6	4.9	7.5	10
	M10	120M10-NP	7TCA302500R0010	18	6TON18M	15518M	15.2	60.5	22.0	18.6	4.9	9.5	
	M12	120M12-NP	7TCA302500R0011					60.5	22.0	18.6	4.9	9.5	
150	M8	150M8-NP	7TCA302510R0000					58.0	18.5	21.0	6.3	7.5	10
	M10	150M10-NP	7TCA302510R0001	21	6TON21M	15521M	16.5	61.5	22.0	21.0	6.3	9.5	
	M12	150M12-NP	7TCA302510R0002					61.5	22.0	21.0	6.3	9.5	
185	M8	185M8-NP	7TCA302510R0003					60.0	18.5	23.0	6.2	7.5	10
	M10	185M10-NP	7TCA302510R0004	23	6TON23M	15523M	18.6	63.3	22.0	23.0	6.2	9.5	
	M12	185M12-NP	7TCA302510R0005					63.3	22.0	23.0	6.2	9.5	
240	M10	240M10-NP	7TCA302510R0006					72.0	22.0	26.0	7.3	9.5	5
	M12	240M12-NP	7TCA302510R0007	26		15526M	20.8	72.0	22.0	26.0	7.3	9.5	
	M16	240M16-NP	7TCA302510R0008					75.5	25.5	26.0	7.3	9.5	
300	M10	300M10-NP	7TCA302510R0009					79.5	22.0	29.0	7.8	9.5	5
	M12	300M12-NP	7TCA302510R0010	29		15529M	23.5	79.5	22.0	29.0	7.8	9.5	
	M16	300M16-NP	7TCA302510R0011					83.0	25.5	29.0	7.8	9.5	

# Spec-Kon® lugs

## Copper / Butt splices



### Technical Information

#### Application

- Copper Tin plated Metric Compression Butt Splices for power cables for rated voltage up to 36kV. From 6 to 400 mm<sup>2</sup>
- Specially designed to accommodate both stranded (class 2) and flexible (class 5) power cables according to IEC 60228

#### Characteristics

- Die code making to assist installation work and inspection
- Hole inspection to ease installation control
- Chamfer barrel to assist installation work

#### Material

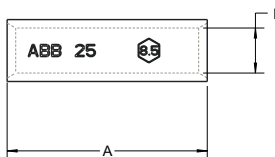
- Copper. Comply to EN13600

#### Surface

- Tin plated

#### Certification

- Comply to IEC 61238 - CE declaration



Nominal X-Section [mm <sup>2</sup> ]	Part Number	GID Number	Die selection			Dimensions		PCs per box
			Die code	Compression Tooling		l [mm]	A [mm]	
				H-CK light B-CK light T-CK light	H-CK 400 B-CK 400 T-CK 400			
6	6-SB	7TCA302520R0000	⊕6	6TON06M		3.8	30.0	100
10	10-SB	7TCA302520R0001	⊕7	6TON07M	15507M	4.5	30.0	100
16	16-SB	7TCA302520R0002	⊕8	6TON075M	155075M	6.0	35.0	100
25	25-SB	7TCA302520R0003	⊕8.5	6TON085M	155085M	7.3	36.0	100
35	35-SB	7TCA302520R0004	⊕11	6TON11M	15511M	8.9	36.0	100
50	50-SB	7TCA302530R0000	⊕12	6TON12M	15512M	9.8	49.0	50
70	70-SB	7TCA302530R0001	⊕14.5	6TON145M	155145M	12.2	52.0	50
95	95-SB	7TCA302530R0002	⊕15	6TON15M	15515M	13.5	54.0	25
120	120-SB	7TCA302530R0003	⊕18	6TON18M	15518M	15.2	57.0	25
150	150-SB	7TCA302540R0000	⊕21	6TON21M	15521M	16.5	57.0	20
185	185-SB	7TCA302540R0001	⊕23	6TON23M	15523M	18.6	61.0	20
240	240-SB	7TCA302540R0002	⊕26		15526M	20.8	72.0	20
300	300-SB	7TCA302540R0003	⊕29		15529M	23.5	75.0	10
400	400-SB	7TCA302540R0004	⊕36		15536M	27.0	95.0	5

# Blackburn lugs – Featuring Color-Keyed® system

## Quick guide AWG copper lugs & splices



Type	Standard barrel	Long barrel	Wire sizes																							
			#10–14 AWG	#8 AWG	#6 AWG	#4 AWG	#3 AWG	#2 AWG	#1 AWG	1/0 AWG	2/0 AWG	3/0 AWG	4/0 AWG	250kcmil	300kcmil	350kcmil	400kcmil	500kcmil	600kcmil	700kcmil	750kcmil	800kcmil	900kcmil	1000kcmil		
One hole	Straight			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	45°				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	90°				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Narrow tongue straight						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Narrow tongue 45						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Two holes	Straight			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	45°				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	90°			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
	Narrow tongue straight						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Butt splice				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

For other tools compatibility, please contact your ABB local contact or check our website for your local contact number

<http://new.abb.com/low-voltage/products/connectivity-grounding>

# Blackburn lugs – Featuring Color-Keyed® system

## Quick guide AWG aluminium lugs & splices



Type		Standard barrel	Wire sizes																						
			#10-14 AWG	#8 AWG	#6 AWG	#4 AWG	#3 AWG	#2 AWG	#1 AWG	1/0 AWG	2/0 AWG	3/0 AWG	4/0 AWG	250kcmi	300kcmi	350kcmi	400kcmi	500kcmi	600kcmi	700kcmi	750kcmi	800kcmi	900kcmi	1000kcmi	
One hole	Straight			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
	Narrow Tongue Straight					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
Two holes	Straight									X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Butt splice		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

## Quick guide AWG cast copper lugs & splices

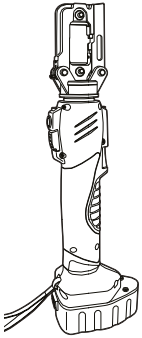
Type		Standard barrel	Wire sizes																						
			#10-14 AWG	#8 AWG	#6 AWG	#4 AWG	#3 AWG	#2 AWG	#1 AWG	1/0 AWG	2/0 AWG	3/0 AWG	4/0 AWG	250kcmi	300kcmi	350kcmi	400kcmi	500kcmi	600kcmi	700kcmi	750kcmi	800kcmi	900kcmi	1000kcmi	
One hole	Straight			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
Two holes	Straight		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Butt splice				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				

For other tools compatibility, please contact your ABB local contact or check our website for your local contact number

<http://new.abb.com/low-voltage/products/connectivity-grounding>

# Tools and accessories

## Hydraulic compression tooling – Battery powered

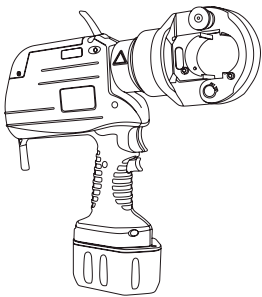


### Battery Hydraulic Compression Tool Set

Product Ref.: B-CK 240  
GID Number: 7TCA131530R0001

#### Characteristics

- Useable dies: Blackburn dies (6 tons series)
- Crimping range: 6-240 mm<sup>2</sup>
- Crimping force: 60 kN
- Weight: 2.3 kg (less battery)
- Length: 455 mm
- Operating pressure: 700 bar
- Scope of delivery: Tool, 2 batteries Bat-Li34, Charger BatC-230, Carrying case



### Battery Hydraulic Compression Tool Set

Product Ref.: B-CK 400  
GID Number: 7TCA131530R0002

#### Characteristics

- Useable dies: U-dies (155 series)
- Crimping range: 10-400 mm<sup>2</sup>
- Crimping force: 140 kN
- Weight: 4.9 kg without Li-Ion-battery
- Length: 330 mm
- Operating pressure: 700 bar
- Scope of delivery: Tool , 2 batteries Bat-Li34, Charger BatC-230 MC, carrying case with die box



## Tools and accessories

### Hydraulic compression tools – Hand and remote head



#### Manual Hydraulic Compression Tool

Product Ref.: H-CK 240  
GID Number: 7TCA131530R0014

##### Characteristics

- Useable dies: Blackburn type (6 tons series)
- Crimping range: 10 - 240 mm<sup>2</sup>
- Crimping force: 58 kN
- Weight: 2.2 kg
- Length: 370 mm



#### Manual Hydraulic Compression Tool

Product Ref.: H-CK 400  
GID Number: 7TCA131530R0000

##### Characteristics

- Useable dies: U-dies (155 series)
- Crimping range: 10-400 mm<sup>2</sup>
- Crimping force: 140 kN
- Weight: 4.9 kg without Li-Ion-battery
- Length: 330 mm



#### Remote-Head Hydraulic Compression Tool

Product Ref.: T-CK 240  
GID Number: 7TCA131530R0003

##### Characteristics

- Useable dies: Blackburn type (6 tons series)
- Crimping range: 10 - 240 mm<sup>2</sup>
- Crimping force: 58 kN
- Weight: 1.6 kg
- Length: 190 mm
- Operating pressure: 700 bar



#### Remote-Head Hydraulic Compression Tool

Product Ref.: T-CK 400  
GID Number: 7TCA131530R0004

##### Characteristics

- Useable dies: U-dies (155 series)
- Crimping range: 16 - 300 mm<sup>2</sup>
- Crimping force: 108 kN
- Weight: 3.6 kg
- Length: 285 mm
- Operating pressure: 700 bar



# Tools and accessories

## Dies and dies selector



### 155-series Set die for Metric Compression Lugs

Product Ref.: 155xxM

#### Characteristics

- Compatible with B-CK 400 / H-CK 400 / T-CK 400\*
- From 10 to 400 mm<sup>2</sup>. Comply to IEC 61238
- Available for metric Color-Keyed® and Spec-Kon®



### 6 ton-series Set die for Metric Compression Lugs

Product Ref.: 6tonxxM

#### Characteristics

- Compatible with B-CK 240 / H-CK 240 / T-CK 240\*
- From 6 to 240 mm<sup>2</sup>. Comply to IEC 61238
- Available for metric Color-Keyed® and Spec-Kon®

Conductor Size [mm <sup>2</sup> ]	Color-Keyed®			Spec-Kon®		
	Lug Part number	H-CK 240 B-CK 240 T-CK 240	H-CK 400 B-CK 400 T-CK 400	Lug Part number	H-CK 240 B-CK 240 T-CK 240	H-CK 400 B-CK 400 T-CK 400
6	6Mx-A	6TON06M		6Mx	6TON06M	
10	10Mx-A	6TON08M	15508M	10Mx	6TON07M	15507M
16	16Mx-A	6TON09M	15509M	16Mx	6TON075M	155075M
25	25Mx-A	6TON11M	15511M	25Mx	6TON085M	155085M
35	35Mx-A	6TON13M	15513M	35Mx	6TON11M	15511M
50	50Mx-A	6TON145M	155145M	50Mx	6TON12M	15512M
70	70Mx-A	6TON17M	15517M	70Mx	6TON145M	155145M
95	95Mx-A	6TON20M	15520M	95Mx	6TON15M	15515M
120	120Mx-A	6TON22M	15522M	120Mx	6TON18M	15518M
150	150Mx-A	6TON25M	15525M	150Mx	6TON21M	15521M
185	185Mx-A	6TON27M	15527M	185Mx	6TON23M	15523M
240	240Mx-A	6TON30M	15530M	240Mx		15526M
300	300Mx-A		15532M	300Mx		15529M
400	400Mx-A		15536M	400Mx		15536M

\* For other tools compatibility, please contact your ABB local contact

## Tools and accessories

### Hydraulic compression tooling – Battery, hand and remote head



#### Battery Cutting Tool Set

Product Ref.: B-Cut 50  
GID Number: 7TCA131530R0006

##### Characteristics

- Cutting capacity: max. 50 mm
- Cutting force: 25 kN
- Weight: 2.1 kg less battery
- Length: 355 mm
- Application: non-ferrous/ideally suited for cutting fine stranded conductors
- Features: electronic overload protection and safety control lever
- Scope of delivery: Tool, 2 batteries Bat-Li34, Charger BatC-230, Carrying case



#### Hand Cutting Tool Set

Product Ref.: H-Cut 22  
GID Number: 7TCA131530R0005

##### Characteristics

- Cutting capacity: max. 22 mm
- Cutting force: 39 kN
- Weight: 2.8 kg
- Length: 390 mm
- Application: steel



#### Remote-Head Cutting Tool Set

Product Ref.: T-Cut 20  
GID Number: 7TCA131530R0007

##### Characteristics

- Cutting capacity: max. 20 mm
- Cutting force: 81 kN
- Weight: 3.8 kg
- Length: 360 mm
- Features 2-step-hydraulic
- Application: steel





# Tools and accessories

## Hydraulic pumps



### Mobile Battery Operated Hydraulic Pump Set

Product Ref.: M-Pump 1300  
GID Number: 7TCA131530R0008

#### Characteristics

- Oil delivery: 1.300 ml/min (low pressure) 200 ml/ min (high pressure)
- Oil filling: 600ml (400ml useable)
- Principle: two parallel working 2 -step piston pumps with rapid advance
- Range of application : mobile battery pump
- Power supply: 14.4 V battery (LiA-34) (useable with one or two batteries)
- Hydraulic connection: Coupling Cejn series 115
- Dimensions (LxWxH): 380 x 205 x 240 mm
- Weight: 7.7 kg less battery
- Working pressure 700bar (can be set from 150 - 850 bar by the manufacturer)
- Features: - wired remote control 5 m (included) - rotatable hydraulic coupling
- Scope of delivery: - Mobile pump - 2 batteries Bat-Li 34 - 2 charger BatC-230



### Mobile Battery Operated Hydraulic Pump Set

Product Ref.: F-Pump 400  
GID Number: 7TCA131530R0009

#### Characteristics

- Oil delivery: 0.4 l/min
- Operating pressure: 700 bar (adjusted)
- Weight: 15.7 kg
- Dimensions (LxWxH): 230 x 230 x 395 mm
- Oil fill: 1.2 l (0.8 l serviceable)
- Power supply: 230 V~ (370 W)
- Operation: one-hand remote control with touch control
- Hose coupling: CEJN-coupling series 115
- Options: adjustable pump pressure from 150 to 850 bar by manufacturer
- Second ON/OFF button on the switchbox
- Two-hand safety switching system
- Switch for selecting two different shut-off pressures
- Selector switch for switching between cutting and crimping
- Included in delivery: Electrohydraulic Fixed Pump, Quick coupling, Foot switch ( if requested)
- There is no hose included in this item.



# Tools and accessories

## Accessories



### Battery Charger

Product Ref.: BatC-230  
GID Number: 7TCA131530R0011

#### Characteristics

- For recharge of all Holger Clasen batteries (14.4V).
- Power supply: 230 V / 50 Hz
- Weight: 0.5 kg
- Measures (L x W x H): 150 x 85 x 75 mm
- Recharge time: Lilon (3,3 Ah) approx. 75 min.
- NiCd (2,0 Ah) approx. 45 min.
- NiMH (3,0 Ah) approx. 90 min



### Li-Ion Battery

Product Ref.: Bat-Li 34  
GID Number: 7TCA131530R0010

#### Characteristics

- Technology: Lithium Ionen
- Voltage: 14.4 V
- Capacity: 3.3 Ah
- Measures (L x W x H): 110 x 70 x 130 mm
- Weight: 0.56 kg
- Charging time: approx. 75 min.
- Useable Charger: BatC-230
- Batterie with low voltage detection and softstart



### Power Supply for battery tower compression tool

Product Ref.: Power-230  
GID Number: 7TCA131530R0012

#### Characteristics

- Input: 220 - 240 V ca. 50-60 Hz 70 W - 800 W
- Output: 14.4 V - 5-60A
- Connection cable: 5 m
- Weight: 0.8 kg



### Hydraulic Hose 3 m

Product Ref.: HydT-3  
GID Number: 7TCA131530R0013

#### Characteristics

- Hose with Oilfill including coupling system (Nipple and coupler)
- Length of hose: 3 m
- Working pressure max. 1000 bar
- Coupling system Cejn Series 115

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