

# Wind turbines

## connecting solutions



Connecting



Cable ties



Earthing  
connections



Insulation



Tooling



mecatraction

SIGAME GROUP



# Wind turbines

## connecting solutions

*With the rapid development of wind farms in Europe and the world (nearly 15,000 today with a power of 313 GW), choosing a reliable and durable connection to connect the electrical components of a wind turbine is essential for trouble free operation. An improper or poor quality connection can cause malfunctions and create the need for frequent and costly maintenance.*

*Mecatraction has over 30 years of experience in industrial connections and guarantees its complete range of pre-insulated and tubular products through quality and traceability, creating confidence in mobile systems and the high stress levels that exist within wind turbines.*

*Mecatraction has been a supplier to wind turbine manufacturers and associated systems for several years, giving the company considerable expertise in this field.*

*Mecatraction is a subsidiary of the SICAME GROUP, a global leader in accessories for the high to low voltage markets.*





## Connecting

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## Tooling

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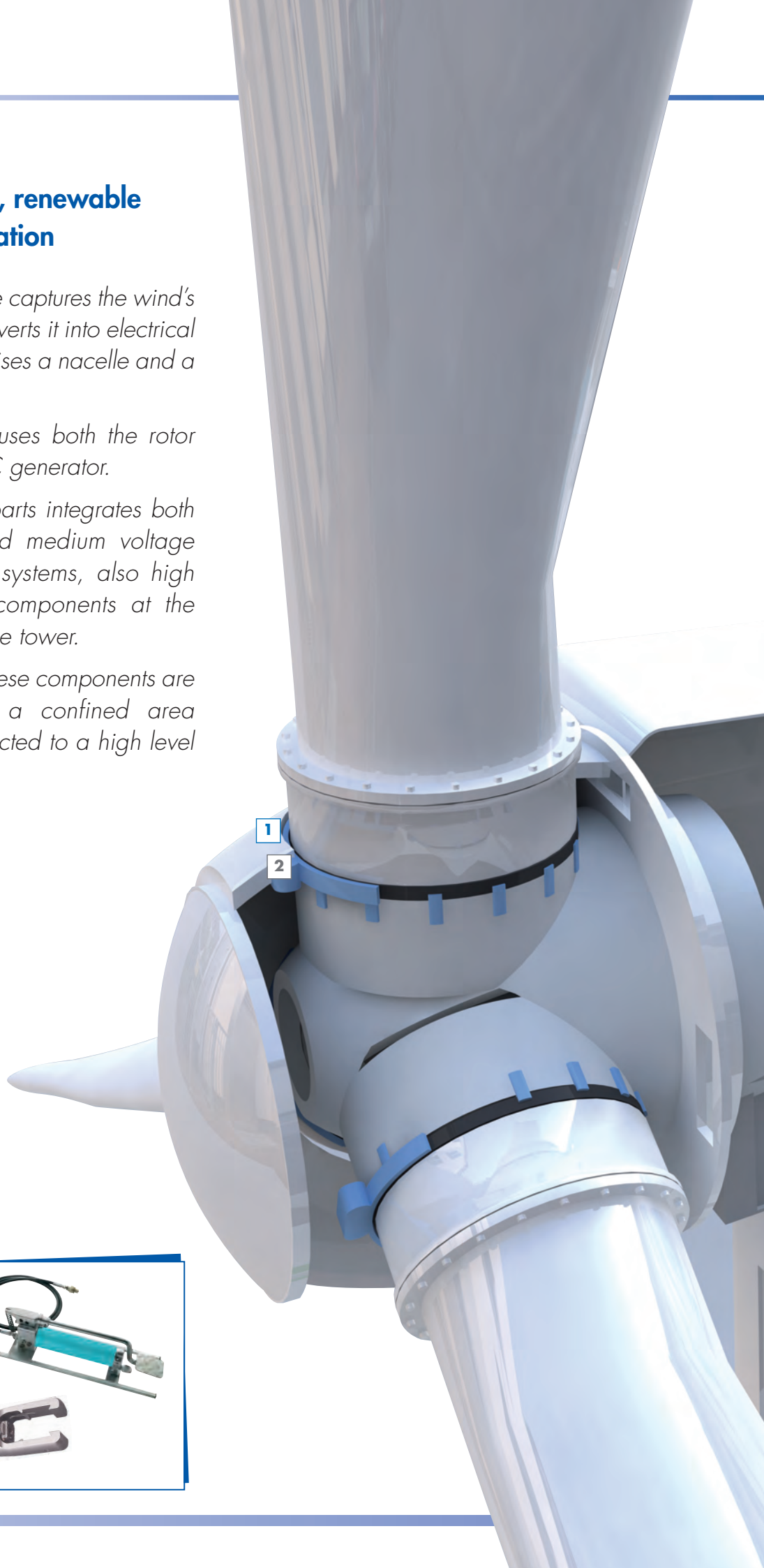
## Wind turbine, renewable power generation

*The wind turbine captures the wind's energy and converts it into electrical power. It comprises a nacelle and a tower.*

*The nacelle houses both the rotor hub and the DC generator.*

*Each of these parts integrates both low and medium voltage control systems, also high voltage components at the base of the tower.*

*All of these components are within a confined area and subjected to a high level of stress.*



### TOOLS



# Wind turbine connecting solutions

**1** COPPER TERMINALS



**2** TUBULAR LUGS



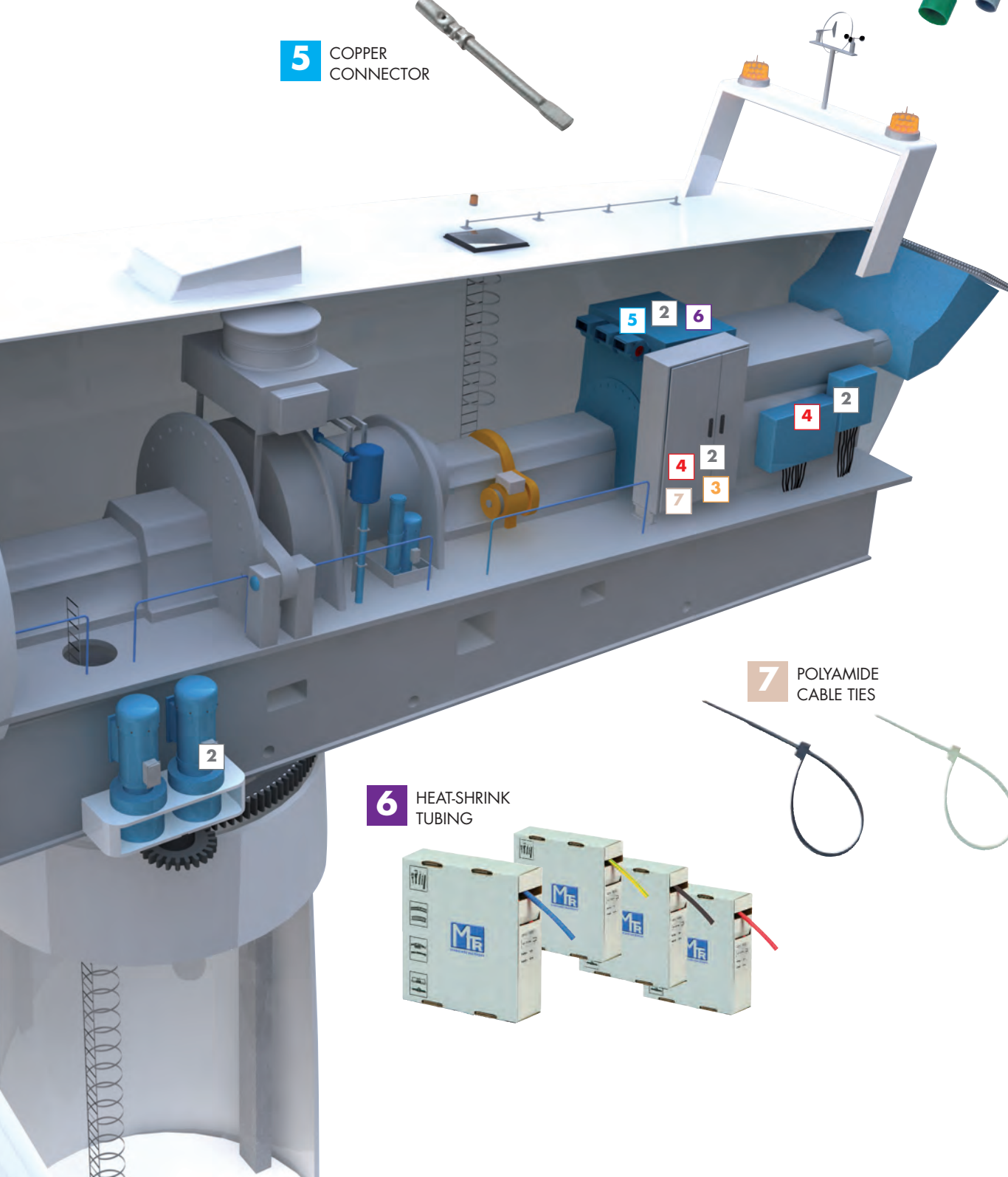
**3** ALUMINIUM COPPER LUGS



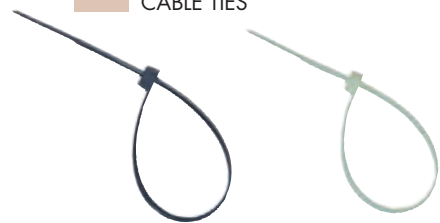
**4** PREINSULATED TERMINALS



**5** COPPER CONNECTOR



**7** POLYAMIDE CABLE TIES



**6** HEAT-SHRINK TUBING





## Base of the tower

The base of the tower contains the control and command cabinets as well as voltage transformer connected to the main substation of the park.

**1** TUBULAR LUGS



**2** PREINSULATED TERMINALS



**3** C TYPE COPPER CONNECTORS



**4** POLYAMIDE CABLE TIES



**5** COPPER BUTT CONNECTORS



**7** DOUBLE CRIMP LUGS



**6** EARTHING COPPER TUBULAR LUGS



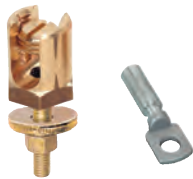
**8** DOUBLE CRIMP LUGS



**9** ALUMINIUM LUGS



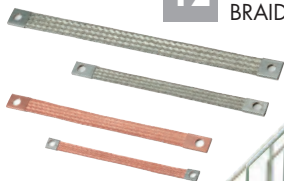
**10** BRASS EARTHING LINE SUPPORTS



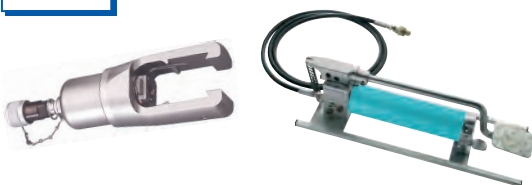
**11** MECHANICAL CONNECTORS



**12** MASS BRAIDS



### TOOLS



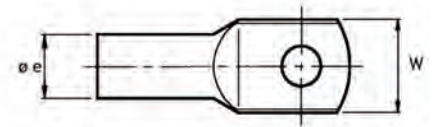
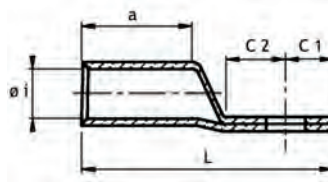
**3** **11**  
**6** **10**

# Wind turbine connecting solutions

## COPPER TUBULAR LUGS FROM 6 TO 95 mm<sup>2</sup>

Compliant with DIN-EN 61238-1

- Electric copper (EN 13600).
- Other treatments upon request.
- Funnel entry.
- For lugs with inspection hole, remove "SV" from part number (eg. DE25-8).

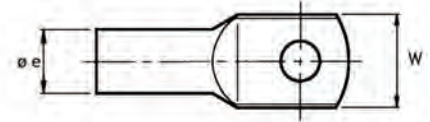
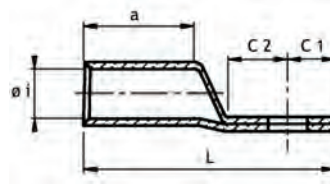


Conductor size (mm <sup>2</sup> )	Item code	Part number	Packing	Stud size (mm)	Dimensions (mm)							Type of dies
					W	øi	øe	C1	C2	a	L	
6	7 360 200	DE 6-4 SV	100	4	10	3.5	6.5	6.8	6.5	9	26.5	...R6
	7 360 215	DE 6-5 SV	100	5	10	3.5	6.5	6.8	6.5	9	26.5	
	7 360 230	DE 6-6 SV	100	6	12	3.5	6.5	6.8	6.5	9	26.5	
	7 360 245	DE 6-8 SV	100	8	15	3.5	6.5	9.8	9.5	9	32.5	
10	7 360 315	DE 10-5 SV	100	5	12	4.5	7	6.8	6.5	10	28	...R10
	7 360 330	DE 10-6 SV	100	6	12	4.5	7	6.8	6.5	10	28	
	7 360 345	DE 10-8 SV	100	8	15	4.5	7	9.8	9.5	10	34	
	7 360 360	DE 10-10 SV	100	10	17	4.5	7	11.8	11.5	10	38	
16	7 360 415	DE 16-5 SV	100	5	12	5.5	8.5	6.8	6.5	13	31.5	...R16
	7 360 430	DE 16-6 SV	100	6	12	5.5	8.5	6.8	6.5	13	31.5	
	7 360 445	DE 16-8 SV	100	8	15	5.5	8.5	9.8	9.5	13	37.5	
	7 360 460	DE 16-10 SV	100	10	17	5.5	8.5	11.8	11.5	13	41.5	
25	7 360 510	DE 25-5 SV	50	5	14	7	10	7	7	15	35.5	...R25
	7 360 525	DE 25-6 SV	50	6	14	7	10	7	7	15	35.5	
	7 360 540	DE 25-8 SV	50	8	16	7	10	9.5	9.5	15	40.5	
	7 360 555	DE 25-10 SV	50	10	18	7	10	11.5	11.5	15	44.5	
	7 360 570	DE 25-12 SV	50	12	19	7	10	13	13.5	15	48	
35	7 360 610	DE 35-6 SV	50	6	17	8.5	12	7	7	17	39	...R35
	7 360 625	DE 35-8 SV	50	8	17	8.5	12	9.5	9.5	17	44	
	7 360 640	DE 35-10 SV	50	10	19	8.5	12	11.5	11.5	17	48	
	7 360 655	DE 35-12 SV	50	12	21	8.5	12	13	13.5	17	51.5	
	7 360 670	DE 35-14 SV	50	14	21	8.5	12	14	14.5	17	53.5	
50	7 360 710	DE 50-6 SV	50	6	20	10	14	9.5	9.5	19	47	...R50
	7 360 725	DE 50-8 SV	50	8	20	10	14	9.5	9.5	19	47	
	7 360 740	DE 50-10 SV	50	10	20	10	14	11.5	11.5	19	51	
	7 360 755	DE 50-12 SV	50	12	23	10	14	13	13.5	19	54.5	
	7 360 770	DE 50-14 SV	50	14	23	10	14	14	14.5	19	56.5	
70	7 360 865	DE 70-8 SV	25	8	23	12	16.5	11.5	11.5	21	54	...R70
	7 360 880	DE 70-10 SV	25	10	23	12	16.5	11.5	11.5	21	54	
	7 360 895	DE 70-12 SV	25	12	23	12	16.5	13	13.5	21	57.5	
	7 360 910	DE 70-14 SV	25	14	23	12	16.5	14	14.5	21	59.5	
	7 360 950	DE 70-16 SV	25	16	28	12	16.5	15.5	16	21	62.5	
95	7 361 000	DE 95-8 SV	25	8	26	13.5	18	11.5	11.5	25	59	...R95
	7 361 015	DE 95-10 SV	25	10	26	13.5	18	11.5	11.5	25	59.5	
	7 361 030	DE 95-12 SV	25	12	26	13.5	18	13	13.5	25	63	
	7 361 045	DE 95-14 SV	25	14	26	13.5	18	14	14.5	25	65	
	7 361 060	DE 95-16 SV	25	16	28	13.5	18	15.5	16	25	68	

## COPPER TUBULAR LUGS FROM 120 TO 240 mm<sup>2</sup>

Compliant with DIN-EN 61238-1

- Electric copper (EN 13600).
- Other treatments upon request.
- Funnel entry.
- For lugs with inspection hole, remove "SV" from part number (eg. DE120-8).



Conductor size (mm <sup>2</sup> )	Item code	Part number	Packing	Stud size (mm)	Dimensions (mm)							Type of dies
					W	Øi	Øe	C1	C2	a	L	
120	7 361 105	DE 120-8 SV	20	8	28	15	19.5	13	13.5	26	65.5	...R120
	7 361 120	DE 120-10 SV	20	10	28	15	19.5	13	13.5	26	65.5	
	7 361 135	DE 120-12 SV	20	12	28	15	19.5	13	13.5	26	65.5	
	7 361 150	DE 120-14 SV	20	14	28	15	19.5	14	14.5	26	67.5	
	7 361 165	DE 120-16 SV	20	16	30	15	19.5	15.5	16	26	70.5	
150	7 361 205	DE 150-8 SV	20	8	31	16.5	21	14.5	14.5	30	73	...R150
	7 361 220	DE 150-10 SV	20	10	31	16.5	21	14.5	14.5	30	73	
	7 361 235	DE 150-12 SV	20	12	31	16.5	21	14.5	14.5	30	73	
	7 361 250	DE 150-14 SV	20	14	31	16.5	21	14.5	14.5	30	73	
	7 361 265	DE 150-16 SV	20	16	31	16.5	21	15.5	16	30	75.5	
185	7 361 315	DE 185-10 SV	10	10	35	19	24	17	18	30	81	...R185
	7 361 330	DE 185-12 SV	10	12	35	19	24	17	18	30	81	
	7 361 345	DE 185-14 SV	10	14	35	19	24	17	18	30	81	
	7 361 360	DE 185-16 SV	10	16	35	19	24	17	18	30	81	
	7 361 380	DE 185-20 SV	10	20	39	19	24	21	22	30	89	
240	7 361 415	DE 240-10 SV	10	10	39	21	26	17	18	35	88	...R240
	7 361 430	DE 240-12 SV	10	12	39	21	26	17	18	35	88	
	7 361 445	DE 240-14 SV	10	14	39	21	26	17	18	35	88	
	7 361 460	DE 240-16 SV	10	16	39	21	26	17	18	35	88	
	7 361 480	DE 240-20 SV	10	20	39	21	26	21	22	35	96	
300	7 361 530	DE 300-12 SV	5	12	43	23.5	29.5	17	18	44	99	...R300
	7 361 545	DE 300-14 SV	5	14	43	23.5	29.5	17	18	44	99	
	7 361 560	DE 300-16 SV	5	16	43	23.5	29.5	17	18	44	99	
	7 361 580	DE 300-20 SV	5	20	43	23.5	29.5	21	22	44	107	
400	7 361 630	DE 400-12 SV	5	12	49	27	34	23	23	44	112	...R400
	7 361 645	DE 400-14 SV	5	14	49	27	34	23	23	44	112	
	7 361 660	DE 400-16 SV	5	16	49	27	34	23	23	44	112	
	7 361 680	DE 400-20 SV	5	20	49	27	34	23	23	44	112	

Tooling: see page 29

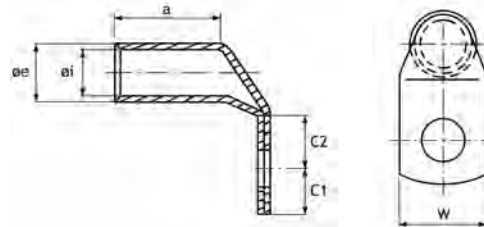


# Wind turbine connecting solutions

## COPPER TUBULAR LUGS FROM 6 TO 50 mm<sup>2</sup> BENT AT 90°

Compliant with DIN-EN 61238-1

- Electric copper (EN 13600).
- Other treatments upon request.
- Funnel entry.
- For lugs with inspection hole, remove "SV" from part number (eg. DE6-5-90E).



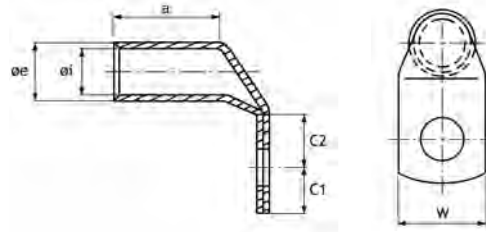
Conductor size (mm <sup>2</sup> )	Item code	Part number	Packing	Stud size (mm)	Dimensions (mm)						Type of dies
					W	Øi	Øe	C1	C2	a	
6	7360225	DE6-5SV90E	100	M5	3.5	6.5	10.0	7.5	7.5	10.0	...R10
	7360240	DE6-6SV90E	100	M6	3.5	6.5	12.0	7.5	7.5	10.0	
	7360255	DE6-8SV90E	100	M8	3.5	6.5	15.0	10.0	10.0	10.0	
	7360270	DE6-10SV90E	100	M10	3.5	6.5	17.0	12.0	12.0	10.0	
	7360285	DE6-12SV90E	100	M12	3.5	6.5	19.0	13.0	13.0	10.0	
10	7360325	DE10-5SV90E	100	M5	4.5	7.0	12.0	6.5	7.5	10.0	...R10
	7360340	DE10-6SV90E	100	M6	4.5	7.0	12.0	6.5	7.5	10.0	
	7360355	DE10-8SV90E	100	M8	4.5	7.0	15.0	10.0	10.0	10.0	
	7360370	DE10-10SV90E	100	M10	4.5	7.0	17.0	12.0	12.0	10.0	
	7360385	DE10-12SV90E	100	M12	4.5	7.0	19.0	13.0	13.0	10.0	
16	7360425	DE16-5SV90E	100	M5	5.5	8.5	12.0	5.5	6.5	13.0	...R16
	7360440	DE16-6SV90E	100	M6	5.5	8.5	12.0	6.5	7.5	13.0	
	7360455	DE16-8SV90E	100	M8	5.5	8.5	15.0	8.5	9.5	13.0	
	7360470	DE16-10SV90E	100	M10	5.5	8.5	17.0	10.5	11.5	13.0	
	7360485	DE16-12SV90E	100	M12	5.5	8.5	19.0	12.0	13.0	13.0	
25	7360520	DE25-5SV90E	100	M5	7.0	10.0	14.0	7.5	7.5	15.0	...R25
	7360535	DE25-6SV90E	100	M6	7.0	10.0	14.0	7.5	7.5	15.0	
	7360550	DE25-8SV90E	100	M8	7.0	10.0	16.0	10.0	10.0	15.0	
	7360565	DE25-10SV90E	100	M10	7.0	10.0	18.0	12.0	12.0	15.0	
	7360580	DE25-12SV90E	100	M12	7.0	10.0	19.0	13.0	13.0	15.0	
	7360590	DE25-14SV90E	100	M14	7.0	10.0	21.0	14.5	14.5	15.0	
35	7360612	DE35-6SV90E	100	M6	8.5	12.0	17.0	7.5	7.5	17.0	...R35
	7360635	DE35-8SV90E	100	M8	8.5	12.0	17.0	10.0	10.0	17.0	
	7360650	DE35-10SV90E	100	M10	8.5	12.0	19.0	12.0	12.0	17.0	
	7360667	DE35-12SV90E	100	M12	8.5	12.0	21.0	13.0	13.0	17.0	
	7360680	DE35-14SV90E	100	M14	8.5	12.0	21.0	14.5	14.5	17.0	
	7360695	DE35-16SV90E	100	M16	8.5	12.0	26.0	16.0	16.0	17.0	
50	7360720	DE50-6SV90E	100	M6	10.0	14.0	20.0	10.0	10.0	19.0	...R50
	7360735	DE50-8SV90E	100	M8	10.0	14.0	20.0	10.0	10.0	19.0	
	7360750	DE50-10SV90E	100	M10	10.0	14.0	20.0	12.0	12.0	19.0	
	7360765	DE50-12SV90E	100	M12	10.0	14.0	23.0	13.0	13.0	19.0	
	7360780	DE50-14SV90E	100	M14	10.0	14.0	23.0	14.5	14.5	19.0	
	7360795	DE50-16SV90E	100	M16	10.0	14.0	28.0	16.0	16.0	19.0	
	7360810	DE50-20SV90E	100	M20	10.0	14.0	30.0	19.0	19.0	19.0	

Tooling: see page 29

## COPPER TUBULAR LUGS FROM 70 TO 240 mm<sup>2</sup> BENT AT 90°

Compliant with DIN-EN 61238-1

- Electric copper (EN 13600).
- Other treatments upon request.
- Funnel entry.
- For lugs with inspection hole, remove "SV" from part number (eg. DE6-5-90E).



Conductor size (mm <sup>2</sup> )	Item code	Part number	Packing	Stud size (mm)	Dimensions (mm)						Type of dies
					W	Øi	Øe	C1	C2	α	
70	7360860	DE70-6SV90E	50	M6	12.0	16.5	24.0	10.0	10.0	21.0	...R70
	7360875	DE70-8SV90E	50	M8	12.0	16.5	24.0	10.0	10.0	21.0	
	7360890	DE70-10SV90E	50	M10	12.0	16.5	24.0	12.0	12.0	21.0	
	7360905	DE70-12SV90E	50	M12	12.0	16.5	24.0	13.0	13.0	21.0	
	7360920	DE70-14SV90E	50	M14	12.0	16.5	24.0	14.5	14.5	21.0	
	7360960	DE70-16SV90E	50	M16	12.0	16.5	28.0	16.0	16.0	21.0	
	7360975	DE70-20SV90E	50	M20	12.0	16.5	30.0	19.0	19.0	21.0	
95	7361010	DE95-8SV90E	50	M8	13.5	18.0	26.0	12.0	14.0	25.0	...R95
	7361025	DE95-10SV90E	50	M10	13.5	18.0	26.0	12.0	17.0	25.0	
	7361040	DE95-12SV90E	50	M12	13.5	18.0	26.0	13.0	18.0	25.0	
	7361055	DE95-14SV90E	50	M14	13.5	18.0	26.0	14.5	20.0	25.0	
	7361070	DE95-16SV90E	50	M16	13.5	18.0	28.0	16.0	22.0	25.0	
	7361085	DE95-20SV90E	50	M20	13.5	18.0	30.0	22.0	24.0	25.0	
120	7361115	DE120-8SV90E	50	M8	15.0	19.5	28.0	14.0	16.0	26.0	...R120
	7361130	DE120-10SV90E	100	M10	15.0	19.5	28.0	14.0	17.0	26.0	
	7361145	DE120-12SV90E	100	M12	15.0	19.5	28.0	14.0	18.0	26.0	
	7361160	DE120-14SV90E	100	M14	15.0	19.5	28.0	15.0	20.0	26.0	
	7361175	DE120-16SV90E	50	M16	15.0	19.5	30.0	16.0	22.0	26.0	
	7361190	DE120-20SV90E	50	M20	15.0	19.5	36.0	22.0	24.0	26.0	
150	7361230	DE150-10SV90E	50	M10	16.5	21	31	12	17	30	...R150
	7361245	DE150-12SV90E	50	M12	16.5	21	31	12	18	30	
185	7361340	DE185-12SV90E	10	M12	19	24	35	14	22	32	...R185
	7361390	DE185-20SV90E	10	M20	19	24	39	21	12	30	
240	7361425	DE240-10SV90E	20	M10	21	26	39	16.75	18.25	35	...R240
	7361440	DE240-12SV90E	20	M12	21	26	39	16.75	18.25	35	
	7361470	DE240-16SV90E	50	M16	21	26	39	16.75	18.25	35	

Tooling: see page 29

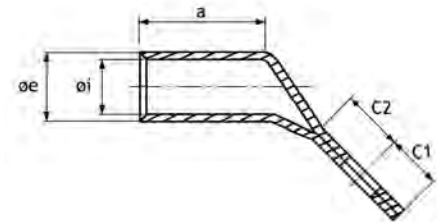
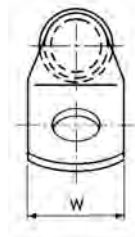
# Wind turbine connecting solutions

## COPPER TUBULAR LUGS FROM 6 TO 35 mm<sup>2</sup> BENT AT 45°

- Electric copper (EN 13600).
- Other treatments upon request.
- Funnel entry.
- For lugs with inspection hole, remove "SV" from part number (eg. DE6-5-45E).



Compliant with DIN-EN 61238-1



Conductor size (mm <sup>2</sup> )	Item code	Part number	Packing	Stud size (mm)	Dimensions (mm)						Type of dies
					W	Øi	Øe	C1	C2	a	
6	7360227	DE6-5SV45E	100	M5	3.5	6.5	10.0	7.5	7.5	9.0	...R6
	7360242	DE6-6SV45E	100	M6	3.5	6.5	12.0	7.5	7.5	9.0	
	7360257	DE6-8SV45E	100	M8	3.5	6.5	15.0	10.0	10.0	9.0	
	7360272	DE6-10SV45E	100	M10	3.5	6.5	17.0	12.0	12.0	9.0	
	7360287	DE6-12SV45E	100	M12	3.5	6.5	19.0	13.0	13.0	9.0	
10	7360327	DE10-5SV45E	100	M5	4.5	7.0	12.0	6.5	7.5	10.0	...R10
	7360342	DE10-6SV45E	100	M6	4.5	7.0	12.0	6.5	7.5	10.0	
	7360357	DE10-8SV45E	100	M8	4.5	7.0	15.0	10.0	10.0	10.0	
	7360372	DE10-10SV45E	100	M10	4.5	7.0	17.0	12.0	12.0	10.0	
	7360387	DE10-12SV45E	100	M12	4.5	7.0	19.0	13.0	13.0	10.0	
16	7360427	DE16-5SV45E	100	M5	5.5	8.5	12.0	5.5	6.5	13.0	...R16
	7360442	DE16-6SV45E	100	M6	5.5	8.5	12.0	6.5	7.5	13.0	
	7360457	DE16-8SV45E	100	M8	5.5	8.5	15.0	8.5	9.5	13.0	
	7360468	DE16-10SV45E	100	M10	5.5	8.5	17.0	10.5	11.5	13.0	
	7360487	DE16-12SV45E	100	M12	5.5	8.5	19.0	12.0	13.0	13.0	
25	7360522	DE25-5SV45E	100	M5	7.0	10.0	14.0	7.5	7.5	15.0	...R25
	7360533	DE25-6SV45E	100	M6	7.0	10.0	14.0	7.5	7.5	15.0	
	7360552	DE25-8SV45E	100	M8	7.0	10.0	16.0	10.0	10.0	15.0	
	7360567	DE25-10SV45E	100	M10	7.0	10.0	18.0	12.0	12.0	15.0	
	7360582	DE25-12SV45E	50	M12	7.0	10.0	19.0	13.0	13.0	15.0	
	7360592	DE25-14SV45E	50	M14	7.0	10.0	21.0	14.5	14.5	15.0	
35	7360622	DE35-6SV45E	100	M6	8.5	12.0	17.0	7.5	7.5	17.0	...R35
	7360637	DE35-8SV45E	100	M8	8.5	12.0	17.0	10.0	10.0	17.0	
	7360652	DE35-10SV45E	100	M10	8.5	12.0	19.0	12.0	12.0	17.0	
	7360669	DE35-12SV45E	100	M12	8.5	12.0	21.0	13.0	13.0	17.0	
	7360682	DE35-14SV45E	50	M14	8.5	12.0	21.0	14.5	14.5	17.0	

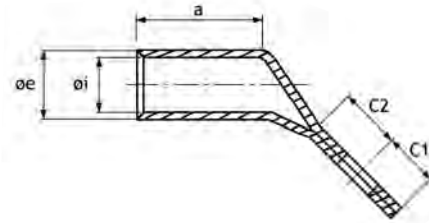
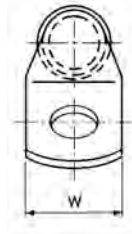
Tooling: see page 29



## COPPER TUBULAR LUGS FROM 50 TO 185 mm<sup>2</sup> BENT AT 45°

Compliant with DIN-EN 61238-1

- Electric copper (EN 13600).
- Other treatments upon request.
- Funnel entry.
- For lugs with inspection hole, remove "SV" from part number (eg. DE6-5-45E).



Conductor size (mm <sup>2</sup> )	Item code	Part number	Packing	Stud size (mm)	Dimensions (mm)					Type of dies	
					W	øi	øe	C1	C2		a
50	7360722	DE50-6SV45E	100	M6	10.0	14.0	20.0	10.0	10.0	19.0	...R50
	7360737	DE50-8SV45E	100	M8	10.0	14.0	20.0	10.0	10.0	19.0	
	7360752	DE50-10SV45E	100	M10	10.0	14.0	20.0	12.0	12.0	19.0	
	7360767	DE50-12SV45E	100	M12	10.0	14.0	23.0	13.0	13.0	19.0	
	7360782	DE50-14SV45E	25	M14	10.0	14.0	23.0	14.5	14.5	19.0	
	7360797	DE50-16SV45E	100	M16	10.0	14.0	28.0	16.0	16.0	19.0	
70	7360862	DE70-6SV45E	50	M6	12.0	16.5	24.0	10.0	10.0	21.0	...R70
	7360877	DE70-8SV45E	50	M8	12.0	16.5	24.0	10.0	10.0	21.0	
	7360892	DE70-10SV45E	50	M10	12.0	16.5	24.0	12.0	12.0	21.0	
	7360907	DE70-12SV45E	50	M12	12.0	16.5	24.0	13.0	13.0	21.0	
	7360922	DE70-14SV45E	50	M14	12.0	16.5	24.0	14.5	14.5	21.0	
	7360902	DE70-16v45E	100	M16	12.0	16.5	28.0	16.0	16.0	21.0	
95	7360977	DE70-20SV45E	100	M20	12.0	16.5	30.0	19.0	19.0	21.0	...R95
	7361012	DE95-8SV45E	50	M8	13.5	18.0	26.0	12.0	14.0	25.0	
	7361027	DE95-10SV45E	50	M10	13.5	18.0	26.0	12.0	17.0	25.0	
	7361042	DE95-12SV45E	50	M12	13.5	18.0	26.0	13.0	18.0	25.0	
	7361057	DE95-14SV45E	25	M14	13.5	18.0	26.0	14.5	20.0	25.0	
	7361072	DE95-16SV45E	50	M16	13.5	18.0	28.0	16.0	22.0	25.0	
120	7361087	DE95-20SV45E	50	M20	13.5	18.0	30.0	22.0	24.0	25.0	...R120
	7361117	DE120-8SV45E	50	M8	15.0	19.5	28.0	14.0	16.0	26.0	
	7361132	DE120-10SV45E	50	M10	15.0	19.5	28.0	14.0	17.0	26.0	
	7361147	DE120-12SV45E	50	M12	15.0	19.5	28.0	14.0	18.0	26.0	
	7361162	DE120-14SV45E	25	M14	15.0	19.5	28.0	15.0	20.0	26.0	
	7361177	DE120-16SV45E	50	M16	15.0	19.5	30.0	16.0	22.0	26.0	
150	7361192	DE120-20SV45E	50	M20	15.0	19.5	36.0	22.0	24.0	26.0	...R150
	7361232	DE150-10SV45E	50	M10	16.5	21	31	14	17	30	
185	7361342	DE185-12SV45E	50	M12	19	24	35	18	22	30	...R185
	7361372	DE185-16SV45E	25	M16	19	24	35	18	22	30	

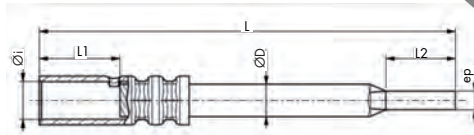
Tooling: see page 29

# Wind turbine connecting solutions

## COPPER CONNECTORS FOR ANNEALED WIRE

Compliant with NF C 20-130

- General features.
- Material : tin plated copper.
- Funnel entry (bell entry for 150 mm<sup>2</sup>).
- Annealed wire has to be soldered over flat termination.
- Cable has to be crimped in tubular termination.
- Suited to wall lead-through.

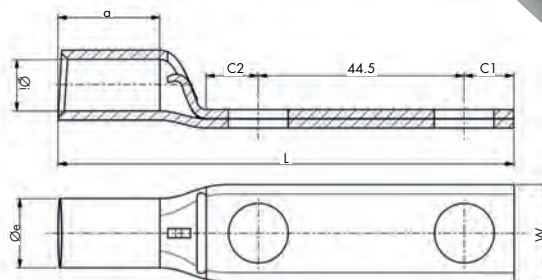


Conductor size (mm <sup>2</sup> )	Item code	Part number	Packing	Dimensions (mm)						Type of dies
				Øi	L1	L2	L	D	EP	
10	7520510	PL10MJ	15	4.3	17	20	114	4	2.5	..HCU10
25	7520511	PL25MJ	100	7	22	20	124	6	3.5	..HCU25
35	7520512	PL35MJ	100	8.2	22	20	124	8	5	..HCU35
50	7520513	PL50MJ	100	9.6	25	20	130	8.6	5	..HCU50
70	7520514	PL70MJ	100	11.5	30	20	140	10	6	..HCU70
95	7520515	PL95MJ	50	13.5	33	20	143	12	7	..HCU95
120	7520516	PL120MJ	50	15	33	30	178	14	8	..HCU120
150	7520520	PL150MJCT	25	16.2	35	30	180	14	8	..HCU150

## TWO HOLE NEMA SPACING COPPER TUBULAR LUGS

Compliant with NF C 20-130

- Electrolytic tin-plating process.
- Other plating on request.
- Funnel entry.

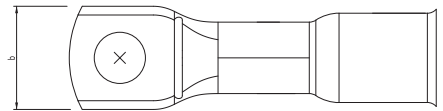
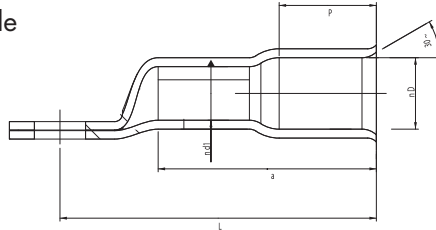


Conductor size (mm <sup>2</sup> )	Item code	Part number	Packing	Dimensions (mm)							Type of dies
				W	Øi	Øe	C1	C2	a	L	
16	7406440	16-12-45C	100	17	5.3	8	16.25	21.25	15	103	..HCU16
25	7406520	25-12-45C	50	18	6.6	9.5	16.25	21.25	15	105	..HCU25
35	7406590	35-12-45C	50	19	7.9	11	16.25	21.25	17	108	..HCU35
50	7406660	50-12-45C	50	20	9.2	12.5	16.25	21.25	19	111	..HCU50
70	7406704	70-12-45CPC	100	21	11	15	10.75	11.25	22	98.5	..HCU70
95	7406810	95-12-45C	25	24	13.1	17	16.25	21.25	28	121	..HCU95
120	7406860	120-12-45C	50	28	14.5	19	16.25	21.25	33	130	..HCU120
150	7406943	150-12-45C	25	30	16.2	21	16.75	17.25	32	124.5	..HCU150
150	7406958	150-14-45C	25	30	16.2	21	16.75	17.25	32	124.5	..HCU150
185	7407010	185-12-45C	25	33	18	23	16.75	19	36	134	..HCU185
185	7407028	185-14-45C	25	33	18	23	16.75	19	36	134	..HCU185
240	7407101	240-12-45C	25	37	20.6	26	18.75	20.25	40	140.5	..HCU240
300	7407171	300-12-45C	10	41	23	28	19	21	41.5	145.5	..HCU300
400	7407230	400-12-45C	10	47	26	32	20	25	43.5	155.5	..HCU400
400	7407231	400-14-45C	10	47	26	32	20	25	43.5	155.5	..HCU400
500	7407290	500-12-45C	6	56	29.2	39.5	21	30.5	53	172	..HCU500
630	7407361	630-12-45C	6	61	33.5	42	27	60.5	61	195	..HCU630

Tooling: see page 29

## EXPANDED COPPER TUBULAR TERMINALS FOR CRIMPING ON CORE AND INSULATION

- Electrolytic copper (EN 13600).
- Electrolytic tin-plating process.
- Bell entry.
- "B" Crimping on core.
- Hexagonal crimping on insulation.
- Application:
  - Flexible Cu cables and highly flexible strand.
  - Earthing and short circuiting, equipotentiality.



### Tooling

Nominal section (mm <sup>2</sup> )	Item code	Part number	Packing	Stud size (mm)	Dimensions (mm)						EC1270 - HC120 SC120 - EC1270KCM	
					Ød1	ØD 0/+0.2	p	L	a	b ± 1	Conductor crimping	Insulation crimping
16	7341840	TRSE16-8	250	8	7	8.7	28	65	48	16	C12TRSE16BS	C12TRSE16FH
	7341841	TRSE16-10	250	10	7	8.7	28	67	48	18		
	7341842	TRSE16-12	250	12	7	8.7	28	68	48	19		
25	7341843	TRSE25-8	250	8	8.5	11.3	27	70	47	19	C12TRSE25BS	C12TRSE25FH
	7341844	TRSE25-10	250	10	8.5	11.3	27	72	47	19		
	7341845	TRSE25-12	250	12	8.5	11.3	27	73	47	21		
35	7341846	TRSE35-8	100	8	10	11.8	27	73	49	20	C12TRSE35BS	C12TRSE35FH
	7341847	TRSE35-10	100	10	10	11.8	27	75	49	20.5		
	7341848	TRSE35-12	100	12	10	11.8	27	76	49	23		
50	7341849	TRSE50-10	200	10	11	14.3	31	85	56	22	C12TRSE50BS	C12TRSE50FH
	7341850	TRSE50-12	200	12	11	14.3	31	86	56	23		
70	7341851	TRSE70-10	50	10	13.5	16.5	35	94	63	25	C12TRSE70BS	C12TRSE70FH
	7341852	TRSE70-12	50	12	13.5	16.5	35	94	63	25		
95	7341853	TRSE95-10	75	10	15.5	19.5	34.5	104.5	67	32	C12TRSE95BS	C12TRSE95FH
	7341854	TRSE95-12	75	12	15.5	19.5	34.5	104.5	67	32		
120	7341855	TRSE120-10	50	10	17	22.1	33	108	71	34	C12TRSE120BS	C12TRSE120FH
	7341856	TRSE120-12	50	12	17	22.1	33	108	71	34		
150	7341857	TRSE150-12	50	12	19	23.4		107	72	39	C12TRSE150BS	C12TRSE150FH

Tooling: see page 29

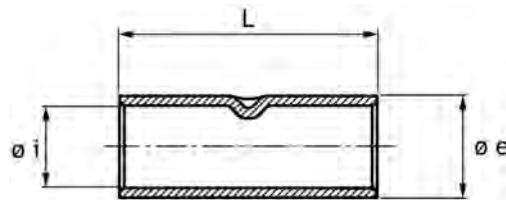


# Wind turbine connecting solutions

## COPPER BUTT CONNECTORS

- Electrolytic copper (EN 13600).
- Electrolytic tin-plating process.
- Funnel entry.

Compliant with DIN-EN 61238-1



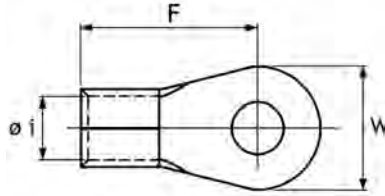
Nominal section (mm <sup>2</sup> )	Item code	Part number	Packing	Dimensions (mm)			Type of dies
				Øi	Øe	L	
6	7 435 061	DEM 6	100	3.5	6.5	24	..R 6
10	7 435 071	DEM 10	100	4.5	7	28	..R 10
16	7 435 081	DEM 16	100	5.5	8.5	34	..R 16
25	7 435 091	DEM 25	100	7	10	38	..R 25
35	7 435 101	DEM 35	100	8.5	12	42	..R 35
50	7 435 111	DEM 50	50	10	14	48	..R 50
70	7 435 121	DEM 70	50	12	16.5	52	..R 70
95	7 435 131	DEM 95	50	13.5	18	59	..R 95
120	7 435 141	DEM 120	50	15	19.5	62	..R 120
150	7 435 151	DEM 150	50	16.5	21	72	..R 150
185	7 435 161	DEM 185	50	19	24	72	..R 185
240	7 435 171	DEM 240	50	21	26	82	..R 240
300	7 435 181	DEM 300	25	23.5	29.5	102	..R 300
400	7 435 191	DEM 400	25	27	34	102	..R 400

Tooling: see page 29

## NON INSULATED SILVER BRAZED TERMINALS FROM 0.5 TO 25 mm<sup>2</sup>

Compliant with DIN 46234

- Electrolytic tin-plating process.



Nominal section (mm <sup>2</sup> )	Item code	Part number	Packing	Stud size (mm)	Dimensions (mm)			Type of dies
					W	F	Øi	
0.5 - 1.5	7 385 300	BY1M32D	100	3	6	11	1.6	MB 524
	7 385 301	BY1M37D	100	3.5	6	11	1.6	
	7 385 302	BY1M43D	100	4	8	12	1.6	
	7 385 303	BY1M53D	100	5	8	12,5	1.6	
	7 385 304	BY1M65D	100	6	11	15	1.6	
1.5 - 2.5	7 385 306	BY25M32D	100	3	6	11	2.3	MB 524
	7 385 307	BY25M37D	100	3.5	6	11	2.3	
	7 385 308	BY25M43D	100	4	8	12	2.3	
	7 385 309	BY25M53D	100	5	8	13,5	2.3	
	7 385 310	BY25M65D	100	6	10	14	2.3	
	7 385 311	BY25M84D	100	8	11	16	2.3	
2.5 - 6	7 385 313	BY6M43D	100	4	8	14	3.6	MB 526
	7 385 314	BY6M53D	100	5	10	15	3.6	
	7 385 315	BY6M65D	100	6	11	16	3.6	
	7 385 316	BY6M84D	100	8	14	19	3.6	
	7 385 317	BY6M105D	100	10	18	21	3.6	
10	7 385 318	BY5-10	100	5	10	16	4.5	..DMB 10
	7 385 319	BY6-10	100	6	11	17	4.5	
	7 385 320	BY8-10	100	8	14	20	4.5	
	7 385 321	BY10-10	100	10	18	21	4.5	
	7 385 322	BY12-10	100	12	22	23	4.5	
16	7 385 323	BY5-16	100	5	11	20	5.8	..DMB 16
	7 385 324	BY6-16	100	6	11	20	5.8	
	7 385 325	BY8-16	100	8	14	22	5.8	
	7 385 326	BY10-16	100	10	18	24	5.8	
	7 385 327	BY12-16	100	12	22	26	5.8	
25	7 385 328	BY6-25	100	6	12	25	7.5	..DMB 25
	7 385 329	BY8-25	100	8	16	25	7.5	
	7 385 330	BY10-25	100	10	18	26	7.5	
	7 385 331	BY12-25	100	12	22	31	7.5	

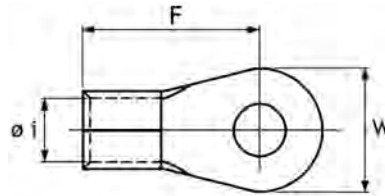
Tooling: see page 29

# Wind turbine connecting solutions

## NON INSULATED SILVER BRAZED TERMINALS FROM 35 TO 240 mm<sup>2</sup>

Compliant with DIN 46234

- Electrolytic tin-plating process.



Nominal section (mm <sup>2</sup> )	Item code	Part number	Packing	Stud size (mm)	Dimensions (mm)			Type of dies
					W	F	Øi	
35	7 385 332	BY6-35	100	6	15	26	9.4	..DMB 35
	7 385 333	BY8-35	100	8	16	26	9.4	
	7 385 334	BY10-35	100	10	18	27	9.4	
	7 385 335	BY12-35	100	12	22	31	9.4	
	7 385 336	BY16-35	100	16	28	32	9.4	
50	7 385 339	BY10-50	50	10	18	34	11	..DMB 50
	7 385 340	BY12-50	50	12	22	36	11	
	7 385 341	BY16-50	50	16	28	40	11	
70	7 385 343	BY8-70	50	8	22	38	13	C6DMB70
	7 385 344	BY10-70	50	10	22	38	13	
	7 385 345	BY12-70	50	12	22	38	13	
	7 385 346	BY16-70	50	16	28	42	13	
95	7 385 348	BY10-95	25	10	24	42	15	C6DMB95
	7 385 349	BY12-95	25	12	24	42	15	
	7 385 350	BY16-95	25	16	28	44	15	
120	7 385 352	BY10-120	25	10	24	44	16.4	C6DMB120
	7 385 353	BY12-120	25	12	24	44	16.4	
	7 385 354	BY16-120	25	16	28	48	16.4	
150	7 385 355	BY10-150	25	10	30	50	19	On request
	7 385 356	BY12-150	25	12	30	50	19	
	7 385 357	BY16-150	25	16	30	50	19	
185	7 385 359	BY12-185	25	12	36	50	21	On request
	7 385 360	BY16-185	25	16	36	50	21	
240	7 385 362	BY12-240	10	12	38	56	23.5	On request
	7 385 363	BY16-240	10	16	38	56	23.5	

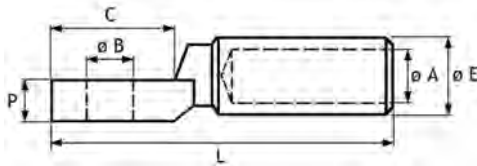
Tooling: see page 29



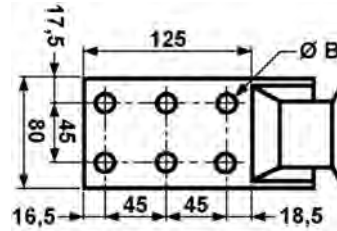
## ALUMINIUM TERMINAL ENDS, DEEP INDENT CRIMPING

Compliant with NF C 33-090-1

- Massive aluminium terminal ends for the connection of aluminium cables on aluminium device terminals.
- The aluminium barrel, closed by a protection cap, is covered inside with neutral grease for a better electrical contact.
- Crimping by deep indent.



Tongue from C0 A 25 to C5 A 400



Tongue from C6 A 500 to C8 A 1300

Nominal section (mm <sup>2</sup> )	Packing 3 pieces		Dimensions (mm)					Type of dies	
	Item code	Part number	ØA	ØE	C	ØB	L	Dies	Indents
25	7 581 511	C0 A 25	6.5	16	33 x 32	13	90	..MC 0E	0E
35	7 581 521	C0 A 35	8	16	33 x 32	13	90	..MC 0E	0E
50	7 581 531	C1 A 50	9	20	33 x 32	16	101	..MC 1E	1E
70-75	7 581 541	C1 A 70	11	20	33 x 32	16	101	..MC 1E	1E
95	7 581 551	C1 A 95	12.5	20	33 x 32	16	101	..MC 1E	1E
120	7 581 561	C2 A 120	13.7	25	37 x 37	16	121	..MC 2E	2E
150	7 581 571	C2 A 150	15.5	25	37 x 37	16	121	..MC 2E	2E
185	7 581 581	C4 A 185	17	32	39 x 39	16	121	..MC 4E	4E
240	7 581 591	C4 A 240	19.5	32	39 x 39	16	121	..MC 4E	4E
300	7 581 601	C5 A 300	23.3	40	39 x 39	16.5	170	..MC 5E	5E
400	7 581 611	C5 A 400	26	40	39 x 39	16.5	170	..MC 5E	5E
500	7 581 621	C6 A 500	29.1	47	125 x 80	6 Ø 16.5	275	..MC 6E	6E
630	7 581 631	C6 A 630	32.5	47	125 x 80	6 Ø 16.5	275	..MC 6E	6E
800	7 581 641	C7 A 800	37.5	60	125 x 80	6 Ø 16.5	310	..MC 7E	7E
1 000	7 581 651	C7 A 1000	42	60	125 x 80	6 Ø 16.5	310	..MC 7E	7E
1 200	7 581 661	C8 A 1200	45.5	65	125 x 80	6 Ø 16.5	340	..MC 8E	8E
1 300	7 581 671	C8 A 1300	47.5	65	125 x 80	6 Ø 16.5	340	..MC 8E	8E

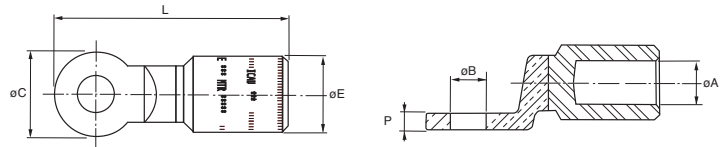
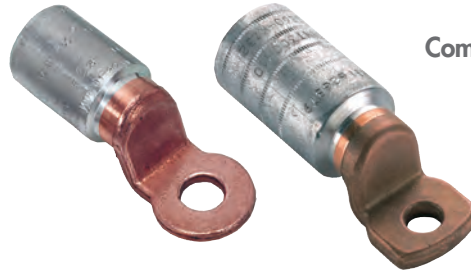
Tooling: see page 29

# Wind turbine connecting solutions

## ALUMINIUM-COPPER LUGS, HEXAGONAL COMPRESSION TYPE

Compliant with NF C 63-061 -  
Class B

- Application on industrial networks.
- Friction welded aluminium-copper lugs.
- Aluminium barrel is covered inside with contact grease.
- Crimping by hexagonal compression.

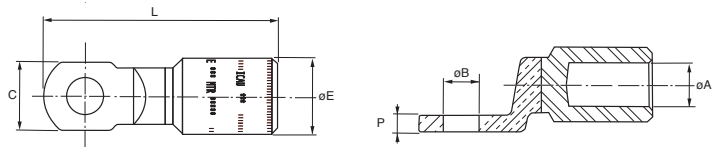


### Range with ring tongue terminals

Nominal section (mm <sup>2</sup> )	Item code	Part number	Dimensions (mm)						Type of dies
			ØA	ØE	ØC	ØB	L	P	
35	7 585 011	ICAU35	8	16	16.5	8.4	56	4.5	..E 140
50	7 585 021	ICAU50	9	16	16.5	8.4	56	4.5	..E 140
70	7 585 031	ICAU70	11	20	20	10.5	65.5	5	..E 173
95	7 585 041	ICAU95	12.5	20	20	10.5	65.5	5	..E 173
120	7 585 051	ICAU120	13.7	20	20	10.5	65.5	5	..E 173
150	7 585 062	ICAU150	15.5	27	30	12.8	84	6	..E 235
185	7 585 072	ICAU185	17	27	30	12.8	84	6	..E 235
240	7 585 082	ICAU240	19.5	27	30	12.8	84	6	..E 235
300	7 585 092	ICAU300	23.3	32	36	14.6	98	7	..X 260

Tooling: see page 29

### Range with narrow tongue terminals



Nominal section (mm <sup>2</sup> )	Item code	Part number	Dimensions (mm)						Type of dies
			ØA	ØE	ØC	ØB	L	P	
150	7 586 050	ICAUC150M10	15.5	27	25	10.5	83	6	..E 235
	7 586 051	ICAUC150M12				12.8			
185	7 586 060	ICAUC185M10	17	27	25	10.5	83	6	...E 235
	7 586 061	ICAUC185M12				12.8			
240	7 586 070	ICAUC240M10	19.5	27	30	10.5	85	7	..E 235
	7 586 071	ICAUC240M12				12.8			
300	7 586 080	ICAUC300M10	23.3	32	30	10.5	93	7	..X 260
	7 586 081	ICAUC300M14				14.5			

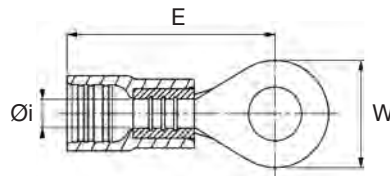
Tooling: see page 29

## PREINSULATED RING TERMINALS

- Tin-plated copper.
- Grooves in the barrel improve the contact with the cable strands and provide a better tensile strength.
- 6.6 Polyamide insulating sleeve.
- "Easy entry" conical entry.
- Max. operating temperature: +105°C.
- Flammability rating: UL 94V2.



Compliant with DIN 46237



Nominal section (mm <sup>2</sup> )	Packing 3 pieces		Insulation Ø max (mm)	Stud size (mm)	Dimensions (mm)		
	Item code	Part number			W	Øi	E
0.5 - 1.5	7 212 320	BE1M27D	4.1	2.5	6	1.6	17
	7 212 325	BE1M32D	4.1	3	6	1.6	17
	7 212 330	BE1M37D	4.1	3.5	6	1.6	17
	7 212 335	BE1M43D	4.1	4	8	1.6	17.5
	7 212 340	BE1M53D	4.1	5	10	1.6	19
	7 212 345	BE1M65D	4.1	6	11	1.6	19
	7 212 350	BE1M84	4.1	8	14	1.6	23
	7 212 355	BE1M105	4.1	10	18	1.6	23
1.5 - 2.5	7 212 360	BE25M32D	4.5	3	6	2.3	17
	7 212 365	BE25M37D	4.5	3.5	6	2.3	17
	7 212 370	BE25M43D	4.5	4	8	2.3	18
	7 212 375	BE25M53D	4.5	5	10	2.3	20
	7 212 380	BE25M65D	4.5	6	11	2.3	22
	7 212 385	BE25M84D	4.5	8	14	2.3	23
	7 212 390	BE25M105D	4.5	10	18	2.3	25
	4 - 6	7 212 395	BE6M43D	6.4	4	8	3.6
7 212 400		BE6M53D	6.4	5	10	3.6	22
7 212 405		BE6M65D	6.4	6	11	3.6	23
7 212 410		BE6M84D	6.4	8	14	3.6	26
7 212 415		BE6M105D	6.4	10	18	3.6	28

Tooling: see page 29

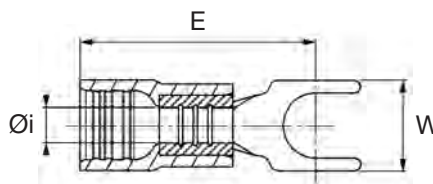


# Wind turbine connecting solutions

## PREINSULATED FORK TERMINALS

Compliant with DIN 46237

- Tin-plated copper.
- Grooves in the barrel improve the contact with the cable strands and provide a better tensile strength.
- 6.6 Polyamide insulating sleeve.
- "Easy entry" conical entry.
- Max. operating temperature: +105°C.
- Flammability rating: UL 94V2.



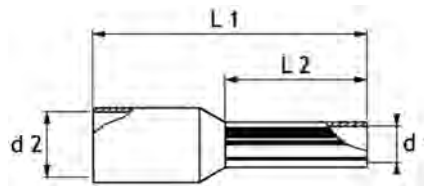
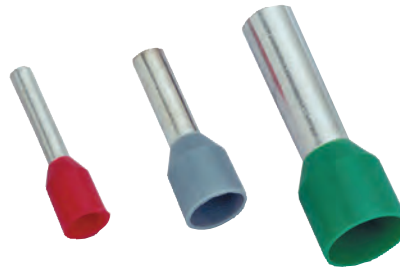
Nominal section (mm <sup>2</sup> )	Packing 3 pieces		Insulation Ø max (mm)	Stud size (mm)	Dimensions (mm)		
	Item code	Part number			W	Øi	E
0.5 - 1.5	7 212 425	BE1FM32D	4	3	6	1.6	17
	7 212 430	BE1FM37D	4	3.5	6	1.6	17
	7 212 435	BE1FM43D	4	4	6.8	1.6	18
	7 212 440	BE1FM53D	4	5	10	1.6	19
	7 212 445	BE1FM65D	4	6	11	1.6	21
1.5 - 2.5	7 212 450	BE25FM32D	4.5	3	5.5	2.3	19
	7 212 455	BE25FM37D	4.5	3.5	6	2.3	17
	7 212 460	BE25FM43D	4.5	4	6.8	2.3	19
	7 212 465	BE25FM53D	4.5	5	10	2.3	20
	7 212 470	BE25FM65D	4.5	6	11	2.3	22
4 - 6	7 212 475	BE6FM43D	6.4	4	8	3.6	21
	7 212 480	BE6FM53D	6.4	5	10	3.6	22
	7 212 485	BE6FM65D	6.4	6	11	3.6	23
	7 212 490	BE6FM84D	6.4	8	14	3.6	26

Tooling: see page 29

## PREINSULATED END SLEEVES

- Material: tin-plated copper.
- Polypropylene insulated sleeve.
- Max. operating temperature: 105°C.

Compliant with DIN 46228/4  
NF C 63023



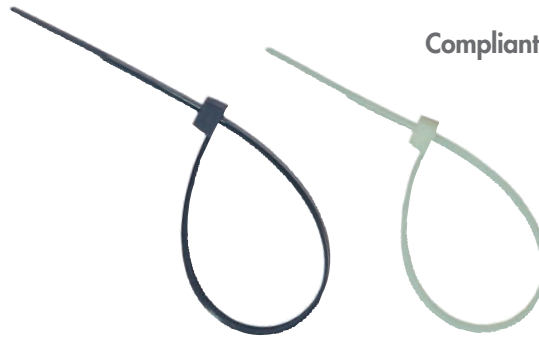
Nominal section (mm <sup>2</sup> )	NF C 63023			DIN 46228/4			DIN 46228/4 except colours			Packing	Dimensions (mm)			
	Item code	Part number	Col.	Item code	Part number	Col.	Item code	Part number	Col.		d1	d2	L1	L2
0.25				7 170 031	CE 002 D	●				1 000	0.75	1.8	10	6
0.34	7 170 041	CE 003	●	7 170 042	CE 003 D	●	7 170 043	CE 003 W	●	1 000	0.8	2	12	8
0.5	7 170 051	CE 005	○	7 170 051	CE 005	○	7 170 052	CE 005 W	●	1 000	1	2.6	14	8
0.75	7 170 071	CE 007	●	7 170 072	CE 007 D	●	7 170 073	CE 007 W	○	1 000	1.2	2.8	14	8
	7 170 081	CE 0072	●	7 170 082	CE 0072 D	●	7 170 083	CE 0072 W	○	1 000	1.2	2.8	18	12
1	7 170 101	CE 010	●	7 170 101	CE 010	●	7 170 102	CE 010 W	●	1 000	1.4	3	14	8
	7 170 261	CE 0103	●	7 170 261	CE 0103	●	7 170 103	CE 0103 W	●	1 000	1.4	3	18	12
1.5	7 170 151	CE 015	●	7 170 151	CE 015	●	7 170 154	CE 015 W	●	1 000	1.7	3.5	14	8
	7 170 152	CE 0152	●	7 170 152	CE 0152	●	7 170 155	CE 0152 W	●	1 000	1.7	3.5	18	12
	7 170 153	CE 0153	●	7 170 153	CE 0153	●	7 170 156	CE 0153 W	●	1 000	1.7	3.5	24	18
2.5	7 170 251	CE 025	●	7 170 256	CE 025 D	●	7 170 256	CE 025 D	●	1 000	2.2	4.2	14	8
	7 170 252	CE 0252	●	7 170 271	CE 0252 D	●	7 170 271	CE 0252 D	●	1 000	2.2	4.2	18	12
	7 170 253	CE 0253	●	7 170 272	CE 0253 D	●	7 170 272	CE 0253 D	●	1 000	2.2	4.2	24	18
4	7 170 421	CA 042	●	7 170 422	CA 042 D	●	7 170 422	CA 042 D	●	1 000	2.8	4.8	17	10
	7 170 401	CA 040	●	7 170 423	CA 040 D	●	7 170 423	CA 040 D	●	1 000	2.8	4.8	20	12
	7 170 431	CA 043	●	7 170 424	CA 043 D	●	7 170 424	CA 043 D	●	1 000	2.8	4.8	26	18
6	7 170 621	CA 062	●	7 170 622	CA 062 D	●	7 170 623	CA 062 W	●	100	3.5	6.3	20	12
	7 170 631	CA 063	●	7 170 632	CA 063 D	●	7 170 633	CA 063 W	●	100	3.5	6.3	26	18
10	7 171 021	CA 102	●	7 171 022	CA 102 D	●	7 171 620	CA 102 W	●	100	4.5	7.6	22	12
	7 171 031	CA 103	●	7 171 032	CA 103 D	●	7 171 033	CA 103 W	●	100	4.5	7.6	28	18
16	7 171 621	CA 162	●	7 171 622	CA 162 D	●	7 171 630	CA 162 W	●	100	5.8	8.8	24	12
	7 171 631	CA 163	●	7 171 632	CA 163 D	●	7 171 633	CA 163 W	●	100	5.8	8.8	28	18
25	7 172 531	CA 253	●	7 172 533	CA 253 D	●	7 172 532	CA 253 W	●	50	7.3	11.2	30	16
	7 172 501	CA 252	●	7 172 502	CA 252 D	●	7 172 503	CA 252 W	●	50	7.3	11.2	36	22
35	7 172 541	CA 352	●	7 172 541	CA 352	●	7 172 542	CA 352 W	●	50	8.3	12.7	30	16
	7 172 551	CA 350	●	7 172 551	CA 350	●	7 172 552	CA 350 W	●	50	8.3	12.7	30	18
50	7 172 561	CA 502	●	7 172 561	CA 502	●	7 172 562	CA 502 W	●	50	10.3	15	36	20

Tooling: see page 29

# Wind turbine connecting solutions

## POLYAMIDE CABLE TIES

- Material: polyamide 6.6.
- Halogen free.
- Melting temperature: 255°C.
- Flammability rating: UL 94 V2.
- Limit oxygen index: 27%.
- Operating temperature: -40°C to +80°C.
- Assembling temperature: -10°C to +60°C.
- Regain of humidity (24 h): 1.3%.
- Resistance to external agents: bases, oils, hydrocarbons, chlorinated solvents.
- Limited resistance to acids. Non resistant to phenols.



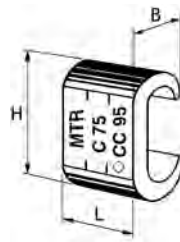
Compliant with MIL-S-23190E

Black		White		Length (mm)	Width (mm)	Ø max bundle (mm)	Tensile strength (DaN)
Packing 100 pieces / bag							
Item code	Part number	Item code	Part number				
7 133 000	CCE 80-2.5	7 133 030	CCE 80-2.5 A	80	2.5	14	8.1
7 133 001	CCE 100-2.5	7 133 031	CCE 100-2.5 A	100	2.5	20	8.1
7 133 002	CCE 160-2.5	7 133 032	CCE 160-2.5 A	160	2.5	36	8.1
7 133 005	CCE 200-2.5	7 133 035	CCE 200-2.5 A	200	2.5	50	8.1
7 133 003	CCE 140-3.6	7 133 033	CCE 140-3.6 A	140	3.6	30	18.2
7 133 007	CCE 200-3.6	7 133 037	CCE 200-3.6 A	200	3.6	50	18.2
7 133 010	CCE 295-3.6	7 133 040	CCE 295-3.6 A	295	3.6	75	18.2
7 133 004	CCE 200-4.8	7 133 034	CCE 200-4.8 A	200	4.8	50	22.2
7 133 009	CCE 295-4.8	7 133 039	CCE 295-4.8 A	295	4.8	75	22.2
7 133 011	CCE 370-4.8	7 133 041	CCE 370-4.8 A	370	4.8	100	22.2
7 133 013	CCE 430-4.8	7 133 043	CCE 430-4.8 A	430	4.8	115	22.2
7 133 006	CCE 200-7.6	7 133 036	CCE 200-7.6 A	200	7.6	50	54.5
7 133 008	CCE 290-7.6	7 133 038	CCE 290-7.6 A	290	7.6	80	54.5
7 133 012	CCE 370-7.6	7 133 042	CCE 370-7.6 A	370	7.6	105	54.5
7 133 015	CCE 550-9	7 133 045	CCE 550-9 A	550	9	140	79.4
7 133 016	CCE 762-9	7 133 046	CCE 762-9 A	762	9	190	79.4
7 133 014	CCE 550-12.7	7 133 044	CCE 550-12.7 A	550	12.7	140	113.5
7 133 017	CCE 762-12.7	7 133 047	CCE 762-12.7 A	730	12.7	190	113.5

Tooling: see page 29

## COMPRESSION TAP-OFF COPPER CONNECTORS TYPE C

Crimping tap made of pure electrolytic copper with a "C" shape enabling joints and taps of Cu-Cu for overhead and grounding connections without cutting the main cable.



Copper			Tin-plated copper			Dimensions (mm)			Capacities						Moun- ting	Type of dies
Item code	Part number	Cdt.	Item code	Part number	Cdt.	L	H	B	Totals		Mini		Maxi			
									Mini	Maxi	1	2	1	2		
7 340 103	C 6	100	7 340 104	C 6 E	100	9	10	6.4	3	12	1.5	1.5	6	6	A	..HCU 10
7 340 132	C 10	100	7 340 131	C 10 E	100	12	12.5	8.5	13	20	10	2x1.5	10	10	A	..HCU 25
7 340 152	C 16	100	7 340 151	C 16 E	100	17	19	11.5	19	32	10	9	16	16	A+B	..HCU 70
											16	2x1.5				
7 340 185	C 25-10	100	7 340 184	C 25-10 E	100	17	19.8	13	17	35	16	1.5	25	10	A	..HCU 95
7 340 180	C 25 PM	50	7 340 181	C 25 PME	50	19	21	11.9	35	41	25	10	25	16	A+B	..HCU 95
											25	10	29.3	29.3	A	
7 340 172	C 25	50	7 340 171	C 25 E	50	20	24.3	15	33	56	27	6	35	16	A+B	..HCU 150
											30	2x1.5	30	16	A+B	
7 340 212	C 35	50	7 340 211	C 35 E	50	20	26.5	15	53	70	30	25	35	35	A+B	..HCU 150
											50	2x1.5	50	16	A+B	
7 340 232	C 50	50	7 340 231	C 50 E	50	20	26.5	17.2	66	100	50	16	50	50	A	..HCU 150
											63	2x1.5	70	30	A	
													75	25	A	
7 340 245	C 70-35	25	7 340 244	C 70-35 E	25	28	33	21	54	110	50	4	70	40	A	..HCU 240
7 340 255	C 70	25	7 340 254	C 70 E	25	28	34	21	85	140	50	35	70	70	A	..HCU 240
											75	30	95	75	A+B	
7 340 262	C 75	25	7 340 261	C 75 E	25	30	41	26	105	170	70	35	95	70	A+B	..CC 95
											90	16				
7 340 285	C 95-35	25	7 340 284	C 95-35 E	25	30	41	26	99	140	95	4	100	40	A	..CC 95
7 340 282	C 95	25	7 340 281	C 95 E	25	30	41	26	150	190	75	75	95	95	A	..CC 95
7 340 332	C 120	25	7 340 331	C 120 E	25	30	45	28	156	240	120	35	120	120	A	..CC 150
											150	6	150	50	A	
7 340 352	C 150	10	7 340 351	C 150 E	10	30	45	28	225	300	150	75	150	150	A+B	..CC 150
7 340 374	C 185-95	10	7 340 372	C 185-95 E	10	30	45	28	260	300	185	75			A+B	..CC 150
											115	95	185	185	A+B	..CC 185
7 340 370	C 185	10	7 340 371	C 185 E	10	35	54	33	210	370	150	60	185	150	A+B	..CC 185
7 340 376	C 240	10	7 340 375	C 240 E	10	40	54	33.5	387	480	240	147	240	240	A	..CC 185
7 340 392	C 240-120	10	7 340 393	C 240-120 E	10	23	68	34	245	360	150	95	240	120	A	..—

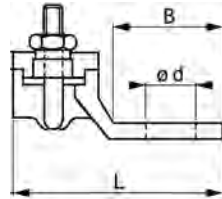
Tooling: see page 29



# Wind turbine connecting solutions

## MECHANICAL CONNECTORS

Mechanical brass connectors are normally fitted with 60 kg zinc plated U bolts. For bronze U bolts please suffix the PN with the letter "B".

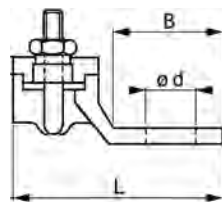


### 1BR series - Ring tongue lugs

Nominal section (mm <sup>2</sup> )	Item code	Part number	Packing	Number of U bolts	Dimensions (mm)		
					Ø B	L	Ø d
6 - 50	7 600 401	1BR921	50	1	21	43	9 (11)
6 - 50	7 600 402	1BR921B	50	1	21	43	9 (11)
6 - 70	7 600 411	1BR1125	25	1	25	55	11 (9-13-15)
6 - 70	7 600 412	1BR1125B	25	1	25	55	11 (9-13-15)
16 - 120	7 600 421	1BR1430	10	1	30	64	13 (15)
16 - 120	7 600 422	1BR1430B	10	1	30	64	13 (15)
25 - 150	7 600 431	1BR1632	10	1	32	70	13 (15)
25 - 150	7 600 432	1BR1632B	10	1	32	70	13 (15)
25 - 185	7 600 441	1BR1836	10	1	36	75	13 (15)
25 - 185	7 600 442	1BR1836B	10	1	36	75	13 (15)
70 - 300	7 600 451	1BR2240	10	1	40	85	19 (15-17)
70 - 300	7 600 452	1BR2240B	10	1	40	85	19 (15-17)

Tooling: see page 29

Mechanical brass connectors are normally fitted with 60 Kg zinc-plated U bolts. For bronze U bolts please suffix the PN with the letter « B ».



### CTR series - Branch tongue lugs

Nominal section (mm <sup>2</sup> )	Item code	Part number	Packing	Number of U bolts	Dimensions (mm)	
					Ø B	Ø d
6 - 75	7 600 731	CTR10	25	1	26	11 (9)*
6 - 75	7 600 732	CTR10B	25	1	26	11 (9)*
35 - 150	7 600 741	CTR16	25	1	26	13
35 - 150	7 600 742	CTR16B	25	1	26	13

\* Non-drilled palm as standard.

Tooling: see page 29

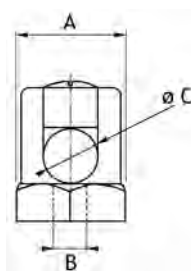
## BRASS EARTHING LINE SUPPORTS

SF series:

- Brass earthing line supports.

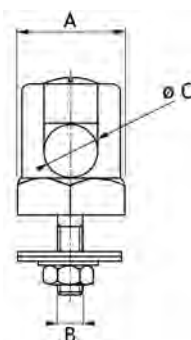
SF + BM series:

- Brass earthing line supports.
- Brass stud and nut and 2 Al-Cu washers.



### SF series

Item code	Part number	Packing	Dimensions (mm)			Item code	Part number	Packing	Dimensions (mm)		
			A	B	ØC				A	B	ØC
7 341 001	SF 66	50	17	M 6	4 to 6	7 341 151	SF 146	20	26	M 6	8 to 14
7 341 011	SF 67	50	17	7 x 150	4 to 6	7 341 161	SF 147	20	26	7 x 150	8 to 14
7 341 021	SF 68	50	17	M 8	4 to 6	7 341 171	SF 148	20	26	M 8	8 to 14
7 341 031	SF 86	50	19	M 6	4 to 8	7 341 181	SF 1410	20	26	M 10	8 to 14
7 341 041	SF 87	50	19	7 x 150	4 to 8	7 341 191	SF 166	20	30	M 6	10 to 16
7 341 051	SF 88	50	19	M 8	4 to 8	7 341 201	SF 167	20	30	7 x 150	10 to 16
7 341 061	SF 810	50	19	M 10	4 to 8	7 341 211	SF 168	20	30	M 8	10 to 16
7 341 071	SF 106	25	21	M 6	6 to 10	7 341 221	SF 1610	20	30	M 10	10 to 16
7 341 081	SF 107	25	21	7 x 150	6 to 10	7 341 231	SF 186	20	32	M 6	18
7 341 091	SF 108	25	21	M 8	6 to 10	7 341 235	SF 187	20	32	7 x 150	18
7 341 101	SF 1010	25	21	M 10	6 to 10	7 341 241	SF 188	20	32	M 8	18
7 341 111	SF 126	25	24	M 6	6 to 12	7 341 271	SF 206	20	36	M 6	20
7 341 121	SF 127	25	24	7 x 150	6 to 12	7 341 281	SF 207	20	36	7 x 150	20
7 341 131	SF 128	25	24	M 8	6 to 12	7 341 291	SF 208	20	36	M 8	20
7 341 141	SF 1210	25	24	M 10	6 to 12	7 341 301	SF 2010	25	36	M 10	20



Tooling: see page 29

### SF + BM series

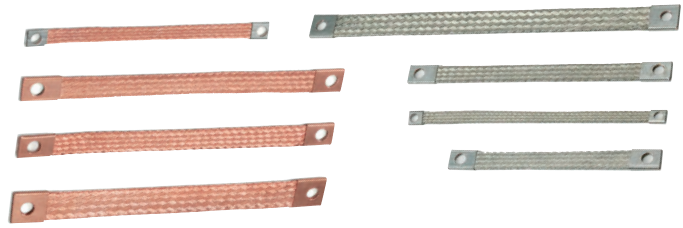
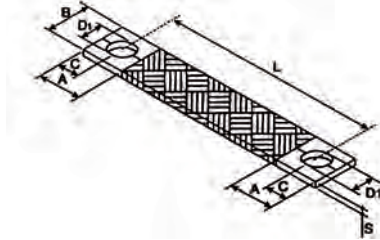
Item code	Part number	Packing	Dimensions (mm)			Item code	Part number	Packing	Dimensions (mm)		
			A	B	ØC				A	B	ØC
7 341 008	SF 66 + BM	25	17	M 6	4 to 6	7 341 162	SF 147 + BM	10	26	7 x 150	8 to 14
7 341 038	SF 86 + BM	25	17	M 6	4 to 8	7 341 198	SF 166 + BM	10	30	M 6	10 to 16
7 341 078	SF 106 + BM	25	21	M 6	6 to 10	7 341 203	SF 167 + BM	10	30	7 x 150	10 to 16
7 341 118	SF 126 + BM	10	24	M 6	6 to 12	7 341 234	SF 186 + BM	10	32	M 6	18
7 341 122	SF 127 + BM	5	24	7 x 150	6 to 12	7 341 278	SF 206 + BM	5	36	M 6	20
7 341 158	SF 146 + BM	5	26	M 6	8 to 14	7 341 282	SF 207 + BM	5	36	7 x 150	20

Tooling: see page 29

# Wind turbine connecting solutions

## MASS BRAIDS

Cu ETP copper wire. Sleeved and flattened ends aid a positive connection. Available plain or tin-plated.



Plain copper		Tin-plated copper		Conductor size mm <sup>2</sup>	Ø wires	Dimensions (mm)					
Item code	Part number	Item code	Part number			L	A	B	C	S	D1
7520300	TMP6-6-100	7520340	TMPE6-6-100	6	0.10	100	13	11	5	2.0	7
7520301	TMP6-6-150	7520341	TMPE6-6-150			150					
7520302	TMP10-8-150	7520342	TMPE10-8-150	10	0.20	150	23	17	10	2.0	9
7520303	TMP10-8-200	7520343	TMPE10-8-200			200					
7520304	TMP10-8-250	7520344	TMPE10-8-250			250					
7520305	TMP16-8-150	7520345	TMPE16-8-150			150					
7520306	TMP16-8-200	7520346	TMPE16-8-200	16	0.20	200	23	17	10	2.5	9
7520307	TMP16-8-250	7520347	TMPE16-8-250			250					
7520308	TMP16-8-300	7520348	TMPE16-8-300			300					
7520309	TMP25-8-150	7520349	TMPE25-8-150			150					
7520310	TMP25-8-200	7520350	TMPE25-8-200	25	0.20	200	23	23	10	3.2	9
7520311	TMP25-8-250	7520351	TMPE25-8-250			250					
7520312	TMP25-8-300	7520352	TMPE25-8-300			300					

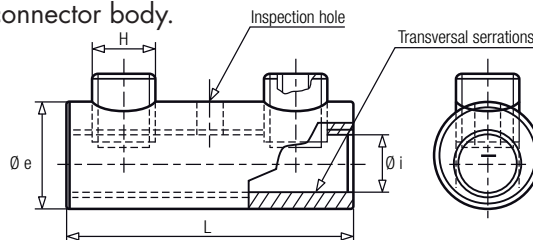
## BOLTED SPLICES FOR COPPER AND ALUMINIUM CABLES

- Body: tin-plated aluminium alloy.
- Steel bolts.
- Inspection hole in the middle of the connector body.
- 2 hexagon socket threads.

### Application

- L.V. (0.6-1 kV) joints for copper and aluminium cables\*.
- Industrial applications.

\* In dry atmosphere.

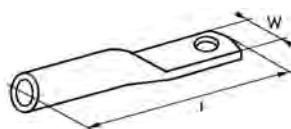


Item code	Part number	Part number				Dimensions (mm)			
		rm	sm	re	se	Ø i	Ø e	L	H
7601500	MT06-25TN	6-25		6-35		7.2	14	40	M8
7601505	MT10-70TN	10-70	35-70	10-70	50-70	12.5	22	57	M12
7601510	MT16-95TN	16-95	35-70	16-50	50-70	14.4	25	55	M12

Tooling: see page 29

## EARTHING COPPER TUBULAR LUGS TIN-PLATED FORGED COPPER LUGS

- Copper tubular lugs.
- Electrolytic tin-plating process.



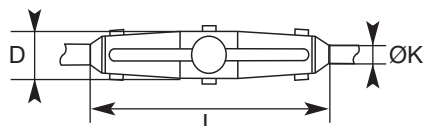
Nominal section (mm <sup>2</sup> )	Packing 50 pieces / box		Hole (mm)	Dimensions (mm)		Type of dies
	Item code	Part number		W	L	
75	7 341 601	CDCT 70-8.5	8	23.5	75	..HCT 75
	7 341 611	CDCT 70-10.5	10	23.5	75	
	7 341 621	CDCT 70-12.5	12	23.5	81.4	
95	7 341 631	CDCT 116-10.5	10	28.5	85	..HCT 95
116	7 341 628	CDCT 95-12	12	25	86	..HCT 116
	7 341 641	CDCT 116-12.5	12	28.5	91	
	7 341 651	CDCT 116-14.5	14	28.5	93	
	7 341 661	CDCT 116-16.5	16	28.5	95	
147	7 341 671	CDCT 147-10.5	10	31.2	98	..HCT 147
	7 341 681	CDCT 147-12.5	12	31.2	98	
	7 341 691	CDCT 147-14.5	14	31.2	102	
	7 341 701	CDCT 147-16.5	16	31.2	104	
181	7 341 712	CDCT 181-10.5 P27	10	35.2	101	..HCT 181
	7 341 714	CDCT 181-12.5	12	35.2	111	
	7 341 721	CDCT 181-14.5	14	35.2	111	
	7 341 735	CDCT 181-16.5	16	35.2	111	
240	7 341 775	CDCT 240-12	12	39	112	..E 215

## STRAIGHT JOINT

Standard packing in cardboard box:

- Mould.
- Separators.
- Resin to be cast.
- Sealing ribbon.
- Installation instructions.
- Without connector.

Application: energy. telephony.



Packing x1		Dimensions (mm)			Capacity (mm <sup>2</sup> )
Item code	Part number	L	D	K	
7 901 059	BJ00	180	24	7-16	4x6
7 901 060	BJ11	190	36	14-22	4x10
7 901 061	BJ12	260	47	14-30	4x25
7 901 062	BJ13	360	55	20-37	4x50
7 901 063	BJ14	400	70	25-42	4x95



# Wind turbine connecting solutions

## HEAT-SHRINK TUBING IN BILBOX DISPENSERS

- The mini-reel BILBOX offers a range of heatshrink tubing with inside diameters before shrinking of 4.8 to 25.4 mm (3/16" to 1").
- Continuous operating temperature: -55°C to +135°C.
- Shrink ratio: 2/1 (except CPX201: 3/1).
- Minimum shrink temperature: 90°C.
- Flexible.
- Flame retardant.
- Resistance to common solvents and fluids.
- 4 colours: black, red, blue, yellow/green.
- Brown and grey colours upon request.



Item code	Part number	Ø before shrinking		Ø after shrinking (mm)	Col	Length in meters
		(mm)	(inch)			
7 469 200	B8CPX100-1-5BK	4.8	3/16"	2.4	●	8
7 469 201	B6CPX100-1-6BK	6.4	1/4"	3.2	●	6
7 469 202	B5CPX100-1-7BK	9.5	3/8"	4.8	●	5
7 469 203	B5CPX100-1-8BK	12.7	1/2"	6.4	●	5
7 469 204	B4CPX100-1-10BK	19.1	3/4"	9.5	●	4
7 469 205	B3CPX100-1-11BK	25.4	1"	12.7	●	3
7 469 207	B8CPX100-1-5RD	4.8	3/16"	2.4	●	8
7 469 208	B6CPX100-1-6RD	6.4	1/4"	3.2	●	6
7 469 209	B5CPX100-1-7RD	9.5	3/8"	4.8	●	5
7 469 210	B5CPX100-1-8RD	12.7	1/2"	6.4	●	5
7 469 211	B4CPX100-1-10RD 19.1	3/4"	9.5	4	●	
7 469 212	B3CPX100-1-11RD	25.4	1" 1	2.7	●	3
7 469 214	B8CPX100-1-5BE	4.8	3/16"	2.4	●	8
7 469 215	B6CPX100-1-6BE	6.4	1/4"	3.2	●	6
7 469 216	B5CPX100-1-7BE	9.5	3/8"	4.8	●	5
7 469 217	B5CPX100-1-8BE	12.7	1/2"	6.4	●	5
7 469 218	B4CPX100-1-10BE	19.1	3/4"	9.5	●	4
7 469 219	B3CPX100-1-11BE	25.4	1"	12.7	●	3
7 469 221	B6CPX201-2	4.8	3/16"	1.5	●	6
7 469 222	B4.5CPX201-3	6.4	1/4"	2.0	●	4.5
7 469 223	B4CPX201-4	9.5	3/8"	3.0	●	4
7 469 224	B3.5CPX201-5	12.7	1/2"	4.0	●	3.5
7 469 225	B3CPX201-6	19.1	3/4"	6.0	●	3
7 469 226	B2CPX201-7	25.4	1"	8.0	●	2

## ELECTRO-HYDRAULIC COMPRESSION TOOL



<b>60 KN Cordless electro-hydraulic compression tool to crimp tubular and Al/Cu lugs and butt connectors</b>	Item code	Part number
<ul style="list-style-type: none"> <li>• Electro-hydraulic compression tool ensures a perfect compression type.</li> <li>• Two stage hydraulic pump (fast advance ram, saving time).</li> <li>• Motor cut out and automatic ram return when crimping is complete.</li> <li>• Dimensions: 360 x 325 x 95 mm.</li> <li>• Weight: 4.200 Kg with battery.</li> </ul>	7 519 401	EDC 620 KCM



USB interface to trace the tool usage history.



Battery charge and service indicator lights.

<b>120 KN Cordless electro-hydraulic compression tool to crimp tubular and Al/Cu lugs and butt connectors</b>	Item code	Part number
<ul style="list-style-type: none"> <li>• Electro-hydraulic compression tool ensures a perfect compression type.</li> <li>• Two stage hydraulic pump (fast advance ram, saving time).</li> <li>• Motor cut out and automatic ram return when crimping is complete.</li> <li>• Dimensions: 425 x 320 x 95 mm.</li> <li>• Weight: 6.400 Kg with battery.</li> </ul>	7 519 402	EC 1270 KCM



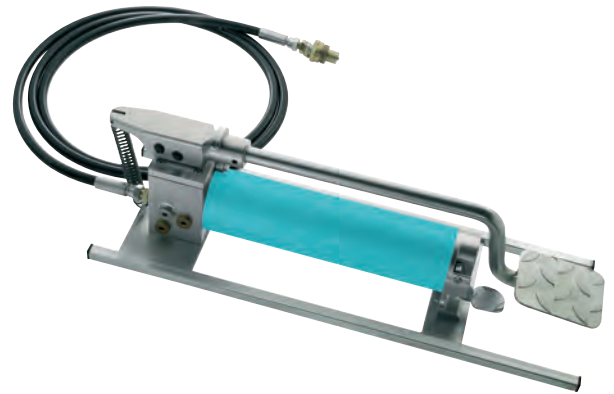
# Wind turbine connecting solutions

## HYDRAULIC CRIMPING TOOLS



200 kN connectable hydraulic compression heads for the crimping of copper tubular lugs, splices and connectors	Item code	Part number
<ul style="list-style-type: none"> <li>Hydraulic compression heads connectable on hydraulic pumps 700 bars.</li> <li>Length: 260 mm.</li> <li>Weight: 5.800 kg</li> </ul>	7 510 141	SU 210 K
	7 510 142	SU 210 E
	7 510 143	SU 210 X

Hydraulic pump 700 bars	Item code	Part number
<ul style="list-style-type: none"> <li>Crimping and rounding with 60 to 250 kN compression heads.</li> <li>Length: 700 mm.</li> <li>Weight: 12.900 kg.</li> <li>Fitted with a 3 m hydraulic hose.</li> </ul>	7 510 075	SPM 4095 K



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