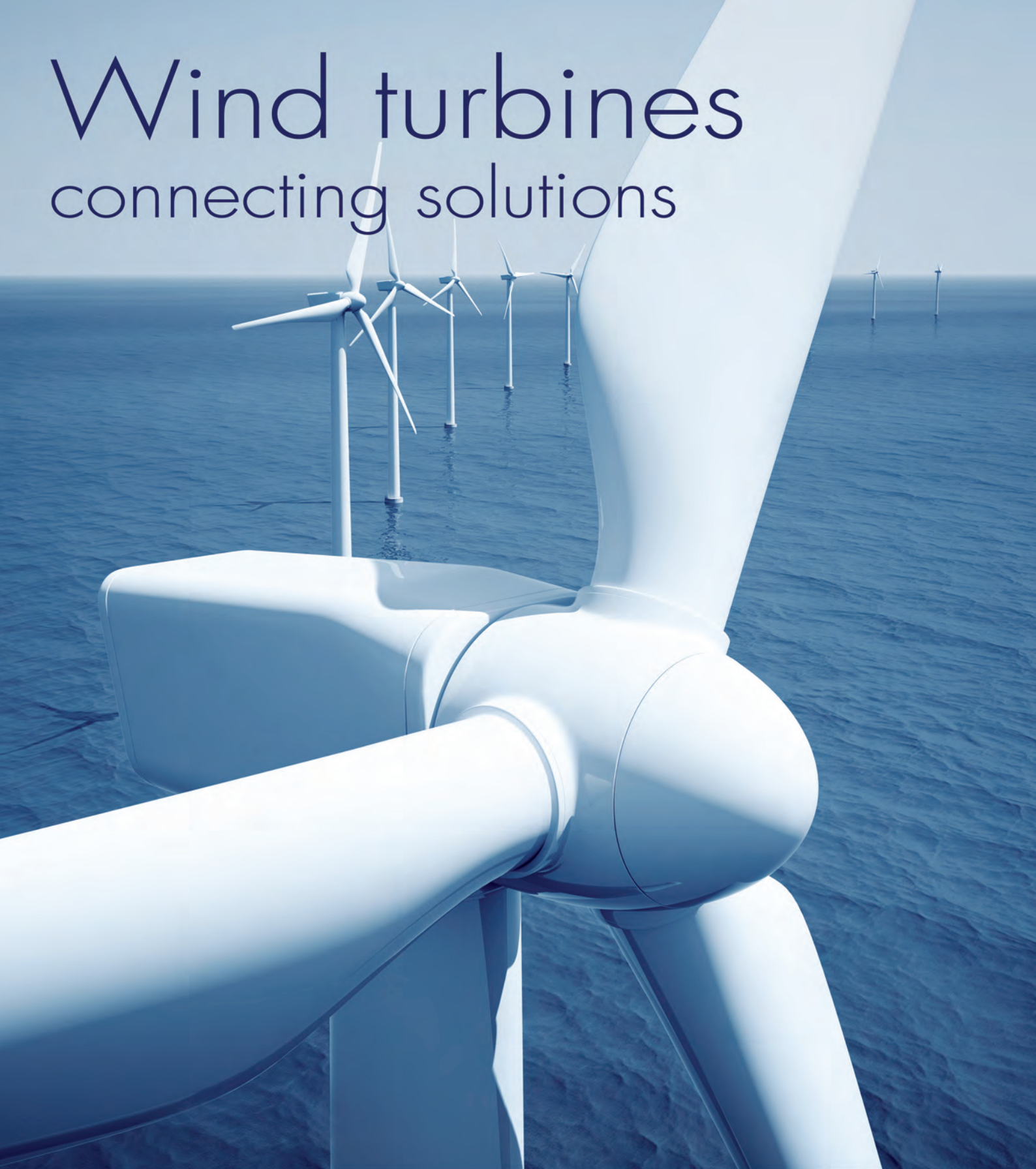


Wind turbines

connecting solutions



Connecting



Cable ties



Earthing
connections



Insulation



Tooling



mecatraccion

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

Copper tubular lugs from 6 to 95 mm ²	7
Copper tubular lugs from 120 to 240 mm ²	8
Copper tubular lugs from 6 to 50 mm ² bent at 90°	9
Copper tubular lugs from 70 to 240 mm ² bent at 90°	10
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Cable ties

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Earthing connections

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Tooling

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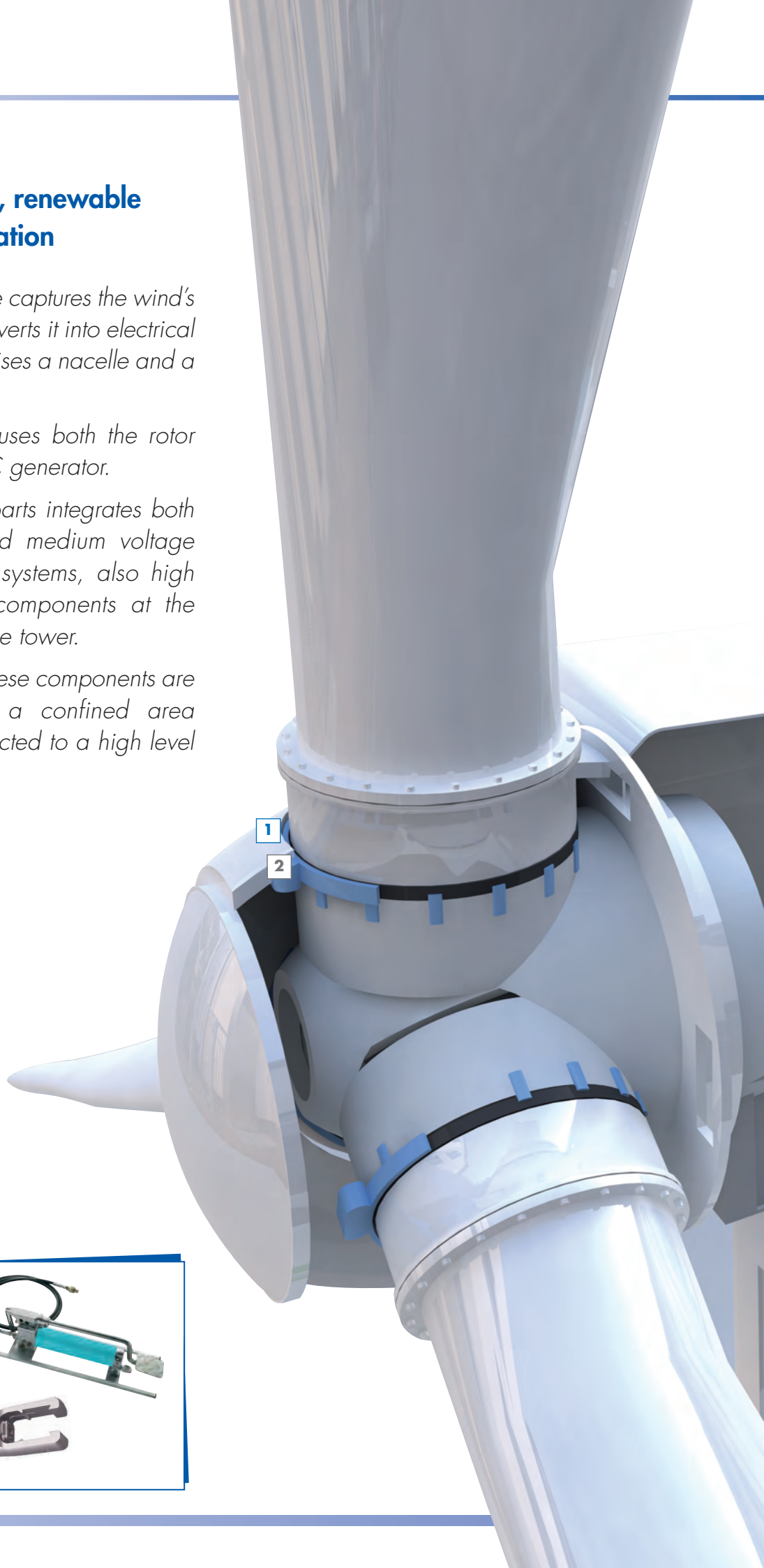
Wind turbine, renewable power generation

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



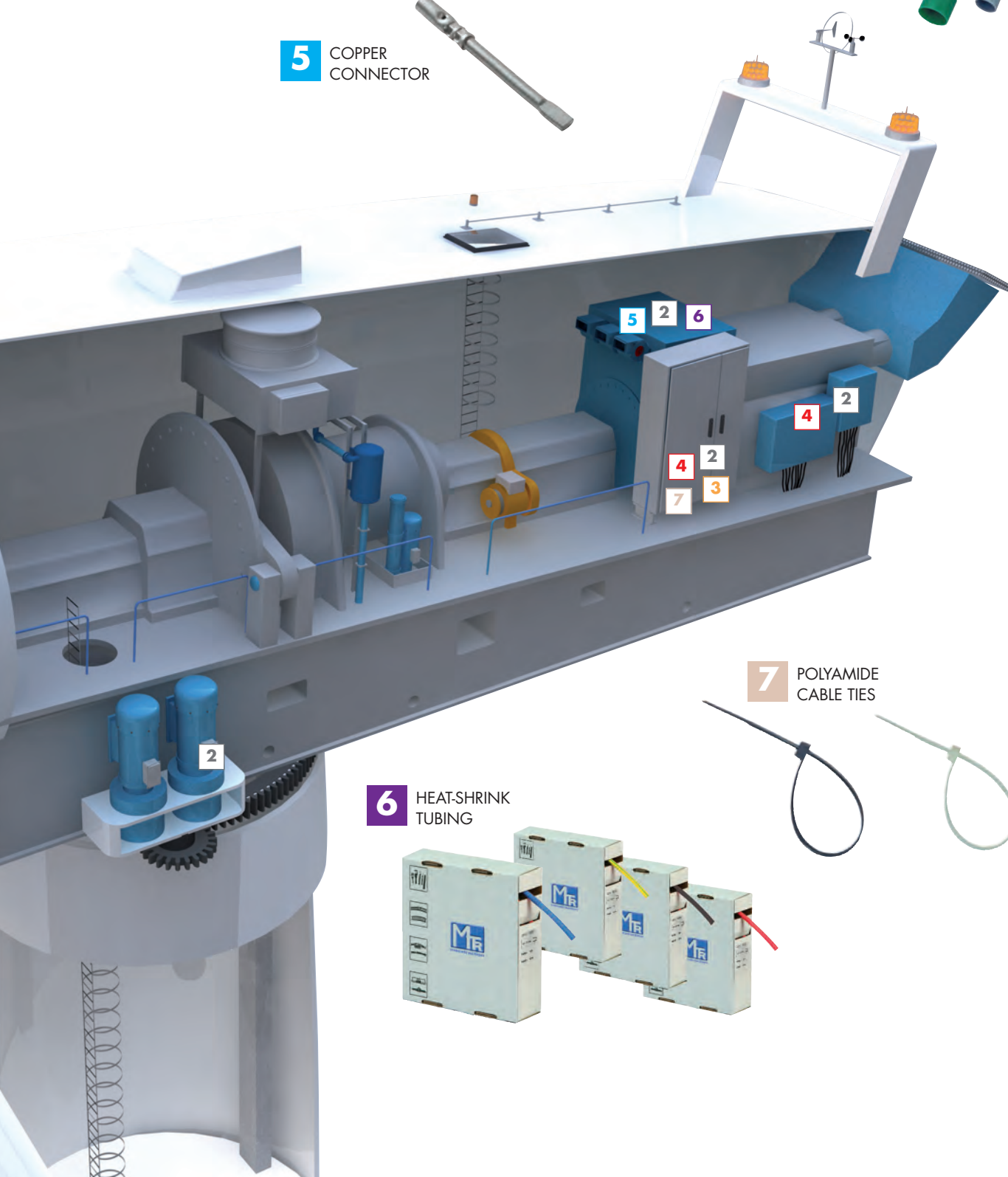
3 ALUMINIUM COPPER LUGS



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



4
6 **5**

1 **2** **12**

4 **3**
1 **2** **12**
8 **7**

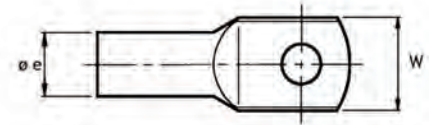
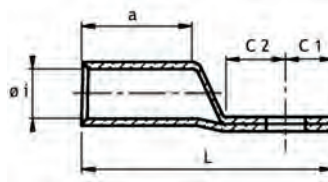
3 **11**
6 **10**

Wind turbine connecting solutions

COPPER TUBULAR LUGS FROM 6 TO 95 mm²

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).

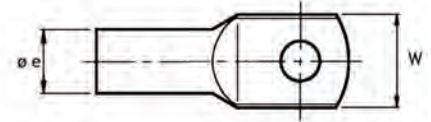
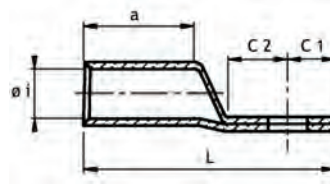


Conductor size (mm ²)	Item code	Part number	Packing	Stud size (mm)	Dimensions (mm)							Type of dies
					W	øi	øe	C1	C2	a	L	
6	7 360 200	DE 6-4 SV	100	4	10	3.5	6.5	6.8	6.5	9	26.5	...R6
	7 360 215	DE 6-5 SV	100	5	10	3.5	6.5	6.8	6.5	9	26.5	
	7 360 230	DE 6-6 SV	100	6	12	3.5	6.5	6.8	6.5	9	26.5	
	7 360 245	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 mm²

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).



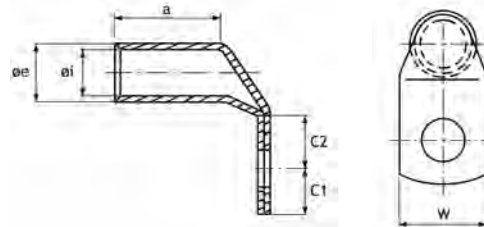
Conductor size (mm ²)	Item code	Part number	Packing	Stud size (mm)	Dimensions (mm)							Type of dies
					W	Øi	Øe	C1	C2	a	L	
120	7 361 105	DE 120-8 SV	20	8	28	15	19.5	13	13.5	26	65.5	...R120
	7 361 120	DE 120-10 SV	20	10	28	15	19.5	13	13.5	26	65.5	
	7 361 135	DE 120-12 SV	20	12	28	15	19.5	13	13.5	26	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 mm² 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).

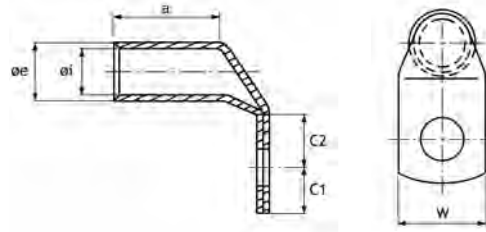
Conductor size (mm ²)	Item code	Part number	Packing	Stud size (mm)	Dimensions (mm)						Type of dies
					W	Øi	Øe	C1	C2	a	
6	7360225	DE6-5SV90E	100	M5	3.5	6.5	10.0	7.5	7.5	10.0	...R10
	7360240	DE6-6SV90E	100	M6	3.5	6.5	12.0	7.5	7.5	10.0	
	7360255	DE6-8SV90E	100	M8	3.5	6.5	15.0	10.0	10.0	10.0	
	7360270	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 mm² 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 ²)	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

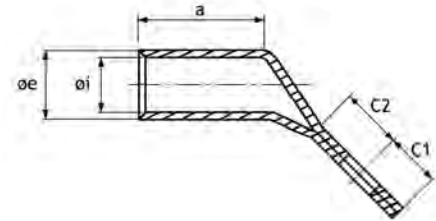
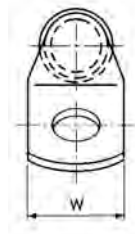
Wind turbine connecting solutions

COPPER TUBULAR LUGS FROM 6 TO 35 mm² 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



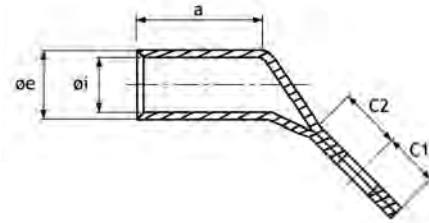
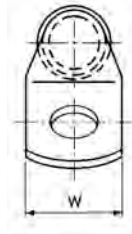
Conductor size (mm ²)	Item code	Part number	Packing	Stud size (mm)	Dimensions (mm)						Type of dies
					W	Øi	Øe	C1	C2	a	
6	7360227	DE6-5SV45E	100	M5	3.5	6.5	10.0	7.5	7.5	9.0	...R6
	7360242	DE6-6SV45E	100	M6	3.5	6.5	12.0	7.5	7.5	9.0	
	7360257	DE6-8SV45E	100	M8	3.5	6.5	15.0	10.0	10.0	9.0	
	7360272	DE6-10SV45E	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 mm² 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 ²)	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	

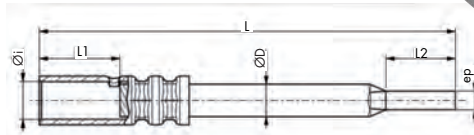
Tooling: see page 29

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 mm²).
- Annealed wire has to be soldered over flat termination.
- Cable has to be crimped in tubular termination.
- Suited to wall lead-through.

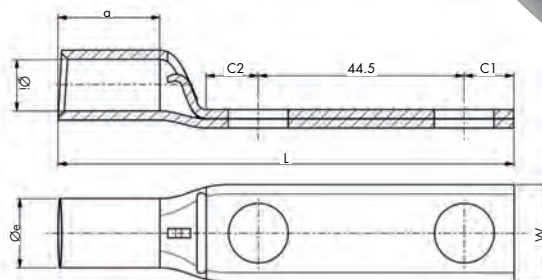


Conductor size (mm ²)	Item code	Part number	Packing	Dimensions (mm)						Type of dies
				Øi	L1	L2	L	D	EP	
10	7520510	PL10MJ	15	4.3	17	20	114	4	2.5	..HCU10
25	7520511	PL25MJ	100	7	22	20	124	6	3.5	..HCU25
35	7520512	PL35MJ	100	8.2	22	20	124	8	5	..HCU35
50	7520513	PL50MJ	100	9.6	25	20	130	8.6	5	..HCU50
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.

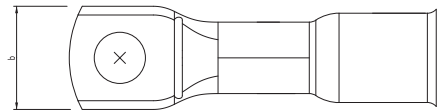
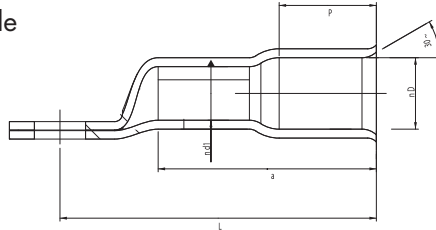


Conductor size (mm ²)	Item code	Part number	Packing	Dimensions (mm)							Type of dies
				W	Øi	Øe	C1	C2	a	L	
16	7406440	16-12-45C	100	17	5.3	8	16.25	21.25	15	103	..HCU16
25	7406520	25-12-45C	50	18	6.6	9.5	16.25	21.25	15	105	..HCU25
35	7406590	35-12-45C	50	19	7.9	11	16.25	21.25	17	108	..HCU35
50	7406660	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 ²)	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

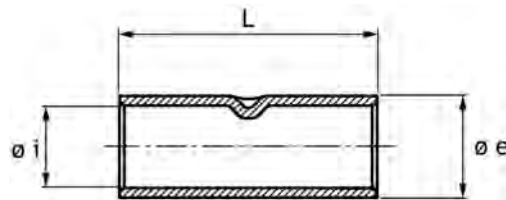
Tooling: see page 29

Wind turbine connecting solutions

COPPER BUTT CONNECTORS

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

Compliant with DIN-EN 61238-1



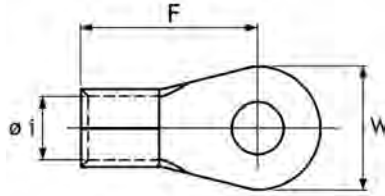
Nominal section (mm ²)	Item code	Part number	Packing	Dimensions (mm)			Type of dies
				Øi	Øe	L	
6	7 435 061	DEM 6	100	3.5	6.5	24	..R 6
10	7 435 071	DEM 10	100	4.5	7	28	..R 10
16	7 435 081	DEM 16	100	5.5	8.5	34	..R 16
25	7 435 091	DEM 25	100	7	10	38	..R 25
35	7 435 101	DEM 35	100	8.5	12	42	..R 35
50	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 mm²

Compliant with DIN 46234

- Electrolytic tin-plating process.



Nominal section (mm ²)	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	

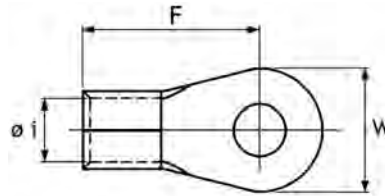
Tooling: see page 29

Wind turbine connecting solutions

NON INSULATED SILVER BRAZED TERMINALS FROM 35 TO 240 mm²

Compliant with DIN 46234

- Electrolytic tin-plating process.



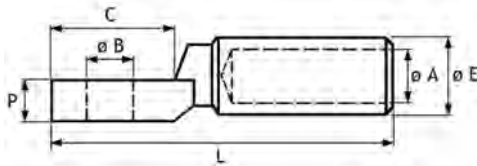
Nominal section (mm ²)	Item code	Part number	Packing	Stud size (mm)	Dimensions (mm)			Type of dies
					W	F	Øi	
35	7 385 332	BY6-35	100	6	15	26	9.4	..DMB 35
	7 385 333	BY8-35	100	8	16	26	9.4	
	7 385 334	BY10-35	100	10	18	27	9.4	
	7 385 335	BY12-35	100	12	22	31	9.4	
	7 385 336	BY16-35	100	16	28	32	9.4	
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

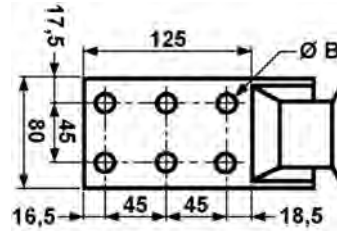
ALUMINIUM TERMINAL ENDS, DEEP INDENT CRIMPING

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 ²)	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

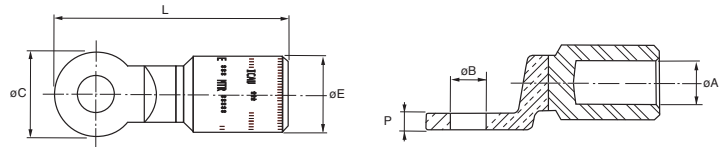
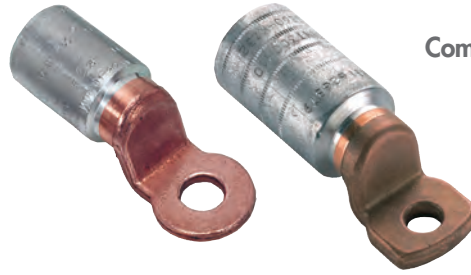
Tooling: see page 29

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.

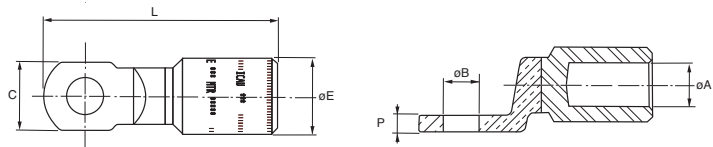


Range with ring tongue terminals

Nominal section (mm ²)	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 ²)	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			

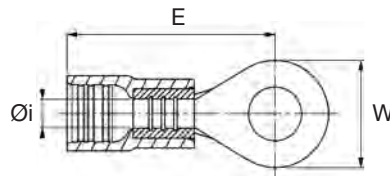
Tooling: see page 29

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 ²)	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

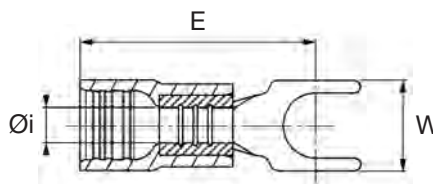
Tooling: see page 29

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.



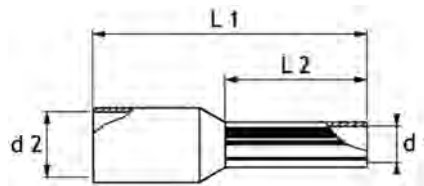
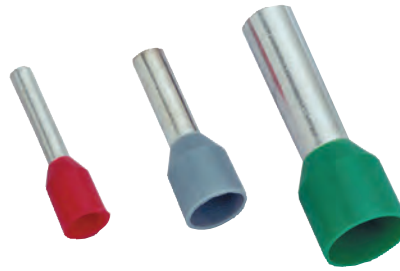
Nominal section (mm ²)	Packing 3 pieces		Insulation Ø max (mm)	Stud size (mm)	Dimensions (mm)		
	Item code	Part number			W	Øi	E
0.5 - 1.5	7 212 425	BE1FM32D	4	3	6	1.6	17
	7 212 430	BE1FM37D	4	3.5	6	1.6	17
	7 212 435	BE1FM43D	4	4	6.8	1.6	18
	7 212 440	BE1FM53D	4	5	10	1.6	19
	7 212 445	BE1FM65D	4	6	11	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



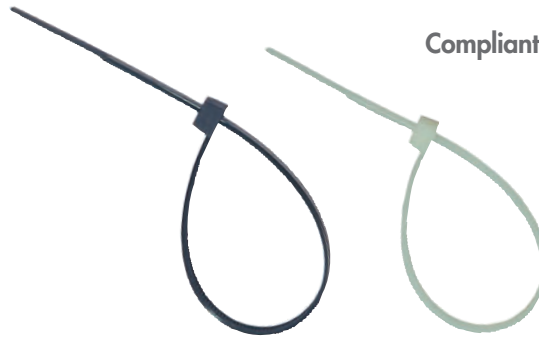
Nominal section (mm ²)	NF C 63023			DIN 46228/4			DIN 46228/4 except colours			Packing	Dimensions (mm)			
	Item code	Part number	Col.	Item code	Part number	Col.	Item code	Part number	Col.		d1	d2	L1	L2
0.25				7 170 031	CE 002 D	●				1 000	0.75	1.8	10	6
0.34	7 170 041	CE 003	●	7 170 042	CE 003 D	●	7 170 043	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.



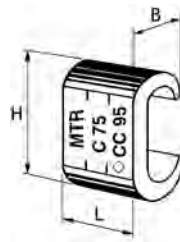
Compliant with MIL-S-23190E

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.



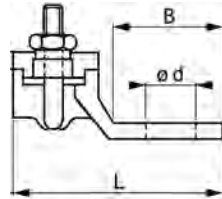
Copper			Tin-plated copper			Dimensions (mm)			Capacities						Moun- ting	Type of dies
Item code	Part number	Cdt.	Item code	Part number	Cdt.	L	H	B	Totals		Mini		Maxi			
									Mini	Maxi	1	2	1	2		
7 340 103	C 6	100	7 340 104	C 6 E	100	9	10	6.4	3	12	1.5	1.5	6	6	A	..HCU 10
7 340 132	C 10	100	7 340 131	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".

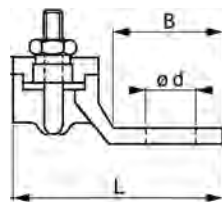


1BR series - Ring tongue lugs

Nominal section (mm ²)	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 ²)	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

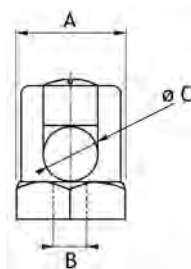
BRASS EARTHING LINE SUPPORTS

SF series:

- Brass earthing line supports.

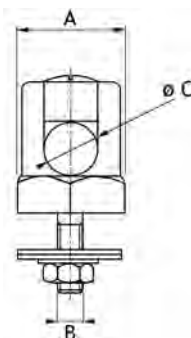
SF + BM series:

- 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

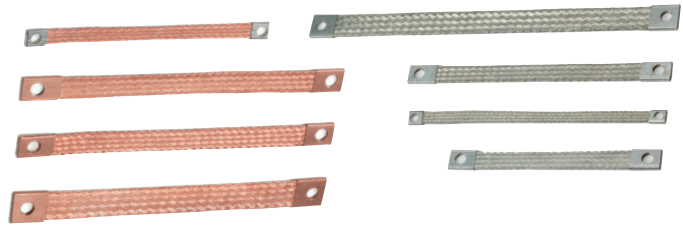
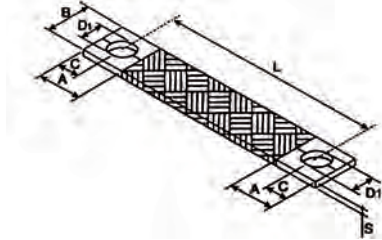
Item code	Part number	Packing	Dimensions (mm)			Item code	Part number	Packing	Dimensions (mm)		
			A	B	ØC				A	B	ØC
7 341 008	SF 66 + BM	25	17	M 6	4 to 6	7 341 162	SF 147 + BM	10	26	7 x 150	8 to 14
7 341 038	SF 86 + BM	25	17	M 6	4 to 8	7 341 198	SF 166 + BM	10	30	M 6	10 to 16
7 341 078	SF 106 + BM	25	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 ²	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					

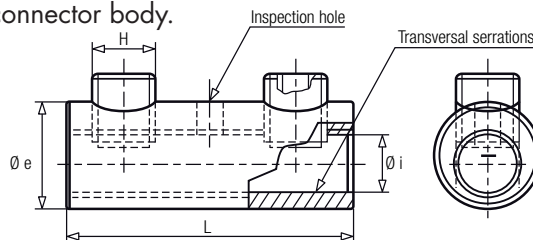
BOLTED SPLICES FOR COPPER AND ALUMINIUM CABLES

- 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.

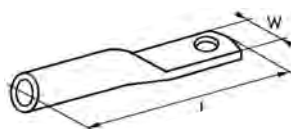


Item code	Part number	Part number				Dimensions (mm)			
		rm	sm	re	se	Ø i	Ø e	L	H
7601500	MT06-25TN	6-25		6-35		7.2	14	40	M8
7601505	MT10-70TN	10-70	35-70	10-70	50-70	12.5	22	57	M12
7601510	MT16-95TN	16-95	35-70	16-50	50-70	14.4	25	55	M12

Tooling: see page 29

EARTHING COPPER TUBULAR LUGS TIN-PLATED FORGED COPPER LUGS

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



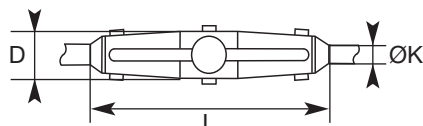
Nominal section (mm ²)	Packing 50 pieces / box		Hole (mm)	Dimensions (mm)		Type of dies
	Item code	Part number		W	L	
75	7 341 601	CDCT 70-8.5	8	23.5	75	..HCT 75
	7 341 611	CDCT 70-10.5	10	23.5	75	
	7 341 621	CDCT 70-12.5	12	23.5	81.4	
95	7 341 631	CDCT 116-10.5	10	28.5	85	..HCT 95
116	7 341 628	CDCT 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 ²)
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



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



USB interface to trace the tool usage history.



Battery charge and service indicator lights.

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



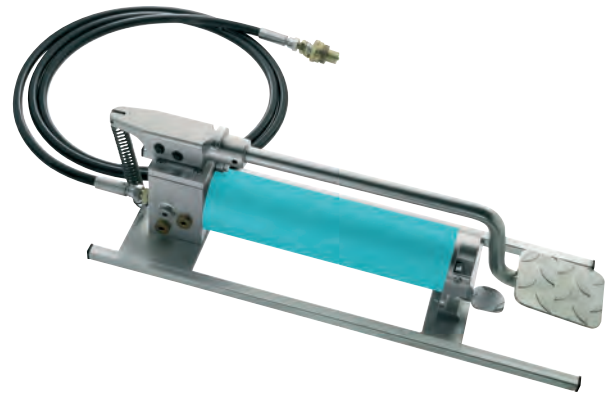
Wind turbine connecting solutions

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"> Hydraulic compression heads connectable on hydraulic pumps 700 bars. Length: 260 mm. Weight: 5.800 kg 	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"> Crimping and rounding with 60 to 250 kN compression heads. Length: 700 mm. Weight: 12.900 kg. Fitted with a 3 m hydraulic hose. 	7 510 075	SPM 4095 K



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