

Datasheet: EN Cu-ETP / CW004A Isoflexx® laminated busbars Alumeco ApS 01-06-2026	Internal alloy name: CW004A Metal: Copper Chemical Symbol: Cu-ETP EN: EN Cu-ETP UNS: C11000 SS: 5010 DIN: 2.0060/2.0065 JIS: C1100 Alloy type: Electrical conducting
Main usage: - Control cabinet wiring - Transformer connections - Generator linking - Solid busbar expansion - Machine switch feeds - Switchgear risers Main properties: - High flexibility - Low contact resistance - High current capacity - Space-saving design	Important norms and literature: Alloy Standards: EN 13602:2013: Copper and copper alloys – Drawn, round copper wire for the manufacture of electrical conductors

Chemical composition in %: EN 13602:2013

Cu	Bi	Pb	O	Other elements	
99,90	Max. 0,0005	Max. 0,005	Max. 0,040	Each	Total
				-	0,03

Isoflexx® specification:

Type / Size Width x number x thickness	Cross- section mm ²	Number of lamellas	Width of lamellas mm	Thickness of lamellas mm	Ampacity ¹ @ Conductor temperature		
					A	65°C	85°C
9 x 3 x 0,8	21	3	9	0,8		121	160
9 x 6 x 0,8	43	6	9	0,8		189	250
20 x 2 x 1	40	2	20	1		208	275
16 x 4 x 0,8	49	4	16	0,8		227	300
24 x 2 x 1	48	2	24	1		242	320
20 x 3 x 1	60	3	20	1		261	345
16 x 6 x 0,8	74	6	16	0,8		287	380
32 x 2 x 1	64	2	32	1		290	384
24 x 3 x 1	72	3	24	1		303	400
20 x 4 x 1	80	4	20	1		303	400
20 x 5 x 1	100	5	20	1		321	424
16 x 10 x 0,8	124	10	16	0,8		348	460
24 x 4 x 1	96	4	24	1		348	460
20 x 6 x 1	120	6	20	1		357	472
32 x 3 x 1	96	3	32	1		361	477
24 x 5 x 1	120	5	24	1		405	535
32 x 4 x 1	128	4	32	1		421	556
24 x 6 x 1	144	6	24	1		439	580
32 x 5 x 1	160	5	32	1		480	634
20 x 10 x 1	200	10	20	1		500	661
32 x 6 x 1	192	6	32	1		530	700
24 x 8 x 1	192	8	24	1		530	700
21 x 11 x 1	231	11	21	1		567	749
40 x 5 x 1	200	5	40	1		577	762

Type / Size Width x number x thickness	Cross- section mm ²	Number of lamellas	Width of lamellas mm	Thickness of lamellas mm	Ampacity ¹ @ Conductor temperature		
					A		
					65°C	85°C	105°C
24 x 10 x 1	240	10	24	1	606	800	951
32 x 8 x 1	256	8	32	1	627	829	985
40 x 6 x 1	240	6	40	1	632	835	992
50 x 5 x 1	250	5	50	1	702	927	1.102
32 x 10 x 1	320	10	32	1	726	959	1.140
40 x 8 x 1	320	8	40	1	744	983	1.168
50 x 6 x 1	300	6	50	1	772	1.020	1.212
63 x 5 x 1	315	5	63	1	832	1.099	1.306
40 x 10 x 1	400	10	40	1	856	1.131	1.344
50 x 5 x 1	400	8	50	1	897	1.185	1.408
63 x 6 x 1	378	6	63	1	949	1.253	1.489
80 x 5 x 1	400	5	80	1	1.022	1.350	1.605
50 x 10 x 1	500	10	50	1	1.027	1.357	1.613
63 x 8 x 1	504	8	63	1	1.030	1.361	1.618
80 x 6 x 1	480	6	80	1	1.105	1.460	1.735
63 x 10 x 1	630	10	63	1	1.188	1.569	1.865
100 x 5 x 1	500	5	100	1	1.215	1.604	1.907
100 x 6 x 1	600	6	100	1	1.257	1.660	1.973
80 x 8 x 1	640	8	80	1	1.280	1.690	2.009
80 x 10 x 1	800	10	80	1	1.416	1.870	2.223
100 x 8 x 1	800	8	100	1	1.461	1.930	2.294
100 x 10 x 1	1.000	10	100	1	1.631	2.154	2.561
100 x 12 x 1	1.200	12	100	1	1.724	2.276	2.706

¹ Values acc. to DIN 43671 for bars in switchgear systems - Heating of bar at an ambient temperature of 35°C

Physical properties:

Density (20 °C) g/cm ³	Melting Point °C	Electrical conductivity % IACS Min.	Thermal conductivity (20 °C) W/m K	Thermal expansion (20 - 300 °C) µm m ⁻¹ K ⁻¹	E – modulus (20 °C) N / mm ²
8,93	1083	100	394	17	110.000