

Datasheet: EN Cu-ETP / CW004A Ultraflexx® highly flexible busbars Alumeco ApS 03-06-2026				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: <ul style="list-style-type: none"> • Switchgear connection • Control cabinet wiring • Transformer connection • Generator linking • High-current transmission 				Important norms and literature: Alloy Standards: EN 13602:2013: Copper and copper alloys – Drawn, round copper wire for the manufacture of electrical conductors			
Main properties: <ul style="list-style-type: none"> • Outstanding electrical contact transition • Superb long-term mechanical characteristics • Vibration-proof due to press-welded connection leads 							
Chemical composition in %: EN 13602:2013							
Cu	Bi	Pb	O	Other elements			
				Each	Total		
99,90	Max. 0,0005	Max. 0,005	Max. 0,040	-	0,03		
Ultraflexx® specification:							
Cross-section mm ²	Length ¹ mm	Width mm	Weight kg/m	Ampacity ^{2,3} / Conductor temperature A			Thermal shortcircuit strength for 1 sec. kA
				65°C	85°C	105°C	
25	150 – 1150	20	0,25	159	210	250	3,8
50	150 – 1150	20	0,51	236	311	370	7,5
100	150 – 1150	20	1,02	350	462	550	15,0
120	150 – 1000	32	1,22	382	504	600	18,5
240	150 – 1000	32	2,44	688	908	1080	37,0
¹ Lengths from 150mm to 1000mm in 50mm increments - other lengths on request; the length is defined as the hole center spacing. ² Values acc. to DIN 43671 for bars in switchgear systems - Heating of bar at an ambient temperature of 35°C ³ Current load values: Ambient temperature 35 °C, alternating current AC. Please use a multiplication factor of 1.72 when using 2 Ultraflexx® and a multiplication factor of 2.25 when using 3 Ultraflexx® in parallel.							
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		