

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: - 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: - 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	Length ¹	Width	Weight	Ampacity ^{2 3} / Conductor temperature			Thermal shortcircuit strength for 1 sec.		
				A					
mm ²	mm	mm	kg/m	65°C	85°C	105°C	kA		
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	Melting Point	Electrical conductivity	Thermal conductivity	Thermal expansion	E – modulus				
(20 °C)			(20 °C)	(20 - 300 °C)	(20 °C)				
g/cm³	°C	% IACS Min.	W/m K	µm m ⁻¹ K ⁻¹	N / mm²				
8,93	1083	100	394	17	110.000				