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

Main properties:

- Outstanding electrical contact transition
- Superb long-term mechanical characteristics
- Vibration-proof due to press-welded connection leads

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	
				Each	Total
99,90	Max. 0,0005	Max. 0,005	Max. 0,040	-	0,03

Ultraflexx® specification:

Cross-section mm²	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/cm³	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 / mm²
8,93	1083	100	394	17	110.000