

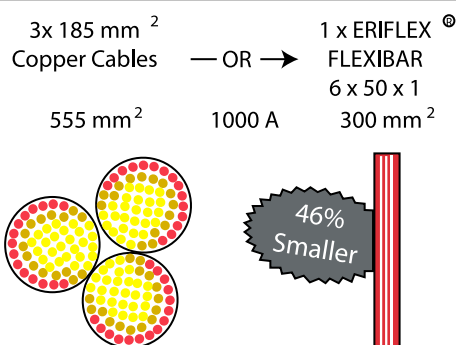
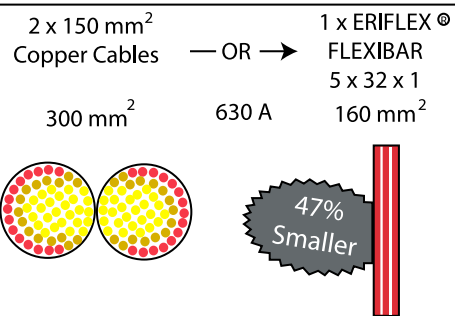
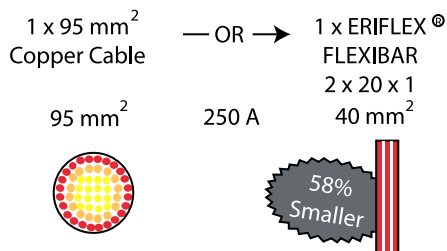


ERIFLEX®

ERICO®

Skin Effect

Comparison of the penetration depth between:



■ = Conductor
■ = Reduced Conductivity
■ = Insulation

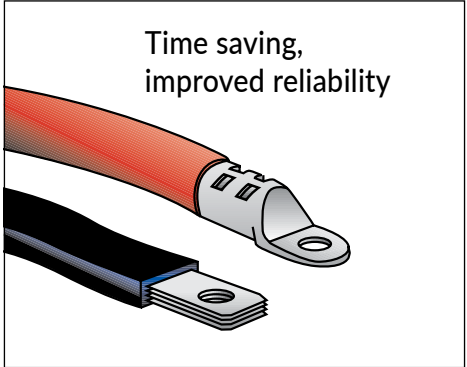
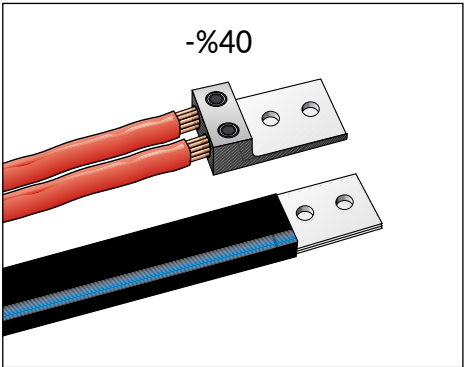
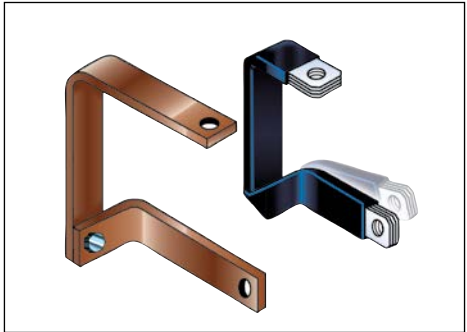
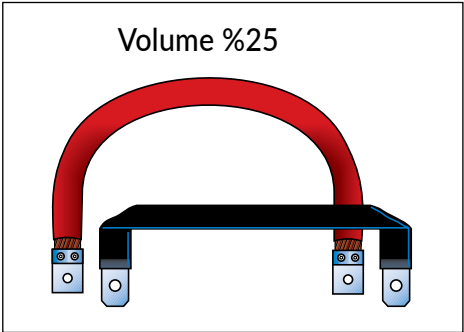
Representative to scale.

ERIFLEX FLEXIBAR intensity and cable intensity are based on conductor temperature rise of 50 °C.

- Made from electrolyte conductive copper.
- Highly-protected support. Made from self-extinguishing PVC or silicon composition.
- Maximum bending and turning.
- Operating range between -25 Co and +150 Co.
- High flexibility: 370%
- Nominal Voltage: 1000V AC/ 1500 V DC

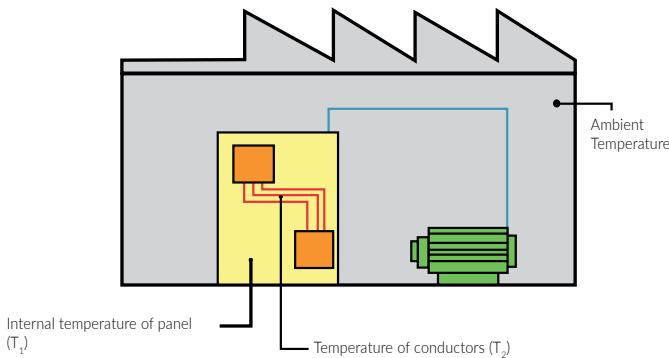


FLEXIBLE COPPER BUSBARS





SELECTION OF ERIFLEX FLEXIBAR ACCORDING TO THE INTERNAL TEMPERATURE OF THE PANEL



Temperature rise of conductor = $T_2 - T_1 = \Delta T$ (K)

Ex.: For a current of 630 A, with

$T_1 = 40^\circ\text{C} - T_2 = 90^\circ\text{C}$

1) $\Delta T = 90 - 40 = 50$ K

2) In the 50°C column, find the closest current value to 630A.
ERIFLEX FLEXIBAR 5 x 32 x 1 - 552650 - 160 mm² - 640A

3) Select ERIFLEX FLEXIBAR according to the terminal width of the equipment being connected.

ADMISSIBLE CURRENTS: This table indicates the temperature rise produced by chosen current in the given section. This calculation does not take into account the heat dissipation from the switch gear.

A	PRODUCT CODE	UNIT METER	PACKS OF	SECTION			SECTION mm ²	ΔT (K)						CURRENT COEFFICIENT	
				N	A	B		70	60	50	40	30	20		
250A	552.490	2	5	2	20	1	40	326	300	275	246	214	174	1.72	2.25
	552.500	2	5	3	20	1	60	428	395	360	323	280	228	1.72	2.25
400A	552.520	2	5	5	20	1	100	498	460	420	376	326	266	1.72	2.25
	552.530	2	5	6	20	1	120	546	506	462	413	358	292	1.72	2.25
500A	552.580	2	5	5	24	1	120	608	563	514	460	398	325	1.72	2.25
	552.590	2	5	6	24	1	144	670	620	566	506	438	358	1.72	2.25
630A	552.650	2	5	5	32	1	160	758	702	640	573	496	405	1.72	2.25
	552.660	2	5	6	32	1	192	846	783	715	640	555	452	1.72	2.25
800A	552.730	2	5	6	40	1	240	1018	943	860	770	667	544	1.72	2.25
1000A	552.740	2	5	8	40	1	320	1230	1140	1040	930	805	658	1.72	2.25
	552.750	2	5	10	40	1	400	1400	1295	1181	1055	915	747	1.72	2.25
1250A	552.810	2	2	10	50	1	500	1650	1525	1395	1245	1080	882	1.72	2.25
1600A	552.870	2	2	10	63	1	630	1895	1755	1600	1435	1240	1012	1.65	2.12
	552.920	2	2	8	80	1	640	1895	1755	1600	1435	1240	1012	1.65	2.12
	552.930	2	2	10	80	1	800	2100	1945	1775	1585	1375	1123	1.65	2.12
	552.990	2	2	12	100	1	1200	2500	2315	2115	1890	1636	1338	1.6	2.02

When using 2 or 3 busbar in parallel, use the coefficient:

Example : 5 x 32 x 1 - ΔT = 50 K: 640 A
 2 parallel bars > 640A x 1,72 = 1100A
 3 parallel bars > 640A x 2,25 = 1440A