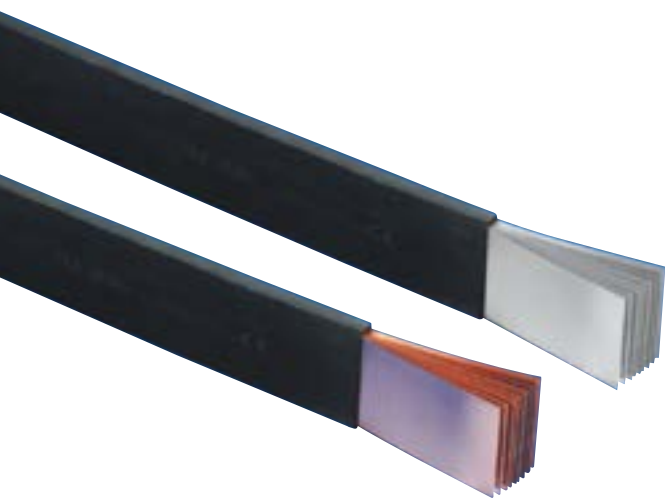


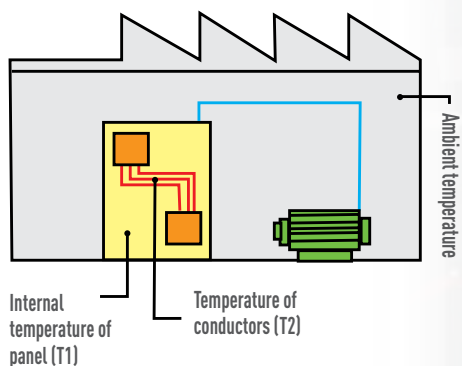
ERIFLEX FLEXIBAR STANDARD



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- Conductor is electrolytic copper (Cu-ETP)
- Insulation is a high-resistance vinyl compound:
 - Elongation: 370%
 - Operating temperature: -50°C - 105°C
 - Thickness: 2 mm ± 0,2
 - Self-extinguishing: UL 94 V0
 - Dielectric strength: 20kV/mm
 - Nominal voltage = 1000 V AC/1500 V DC (UL & IEC)

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 630A, with: $T_1 = 40^\circ\text{C}$ - $T_2 = 90^\circ\text{C}$

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

2) In the 50°K column, find the closest current value to 630A. ERIFLEX FLEXIBAR 5x32x1 - 552650 - 160 mm² - 640A.

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

K = Kelvin degree (temperature calculated, but not measurable)

ERIFLEX FLEXIBAR IN PARALLEL

When using 2 or 3 ERIFLEX FLEXIBAR on edge in parallel for the same phase, use the coefficient:

Ex: 5 x 32 x 1 - $\Delta T^\circ = 50\text{ K}$: 640 A

2 bars in parallel > 640 A x 1,72 = 1100 A

3 bars in parallel > 640 A x 2,25 = 1440 A

ERIFLEX FLEXIBAR STANDARD TECHNICAL CHARACTERISTICS

A	Part Number							Section mm ²	ΔT (K)						Current Coefficient	
		N		A		B			70	60	50	40	30	20		
125 A	552400	8	x	6	x	0,5		24	196	182	166	143	128	105	1,72	2,25
	552410	3	x	9	x	0,8		21,6	158	147	134	120	104	85	1,72	2,25
	552420	6	x	9	x	0,8		43,2	290	269	245	220	190	155	1,72	2,25
	552440	3	x	13	x	0,5		19,5	198	184	167	150	130	106	1,72	2,25
	552390	2	x	15,5	x	0,8		24,8	252	234	212	191	165	134	1,72	2,25
250 A	552430	9	x	9	x	0,8		64,8	314	291	265	237	206	168	1,72	2,25
	552450	6	x	13	x	0,5		39	300	277	253	226	196	160	1,72	2,25
	552460	4	x	15,5	x	0,8		49,6	380	350	320	286	248	202	1,72	2,25
	552490	2	x	20	x	1		40	326	300	275	246	214	174	1,72	2,25
	552500	3	x	20	x	1		60	428	395	360	323	280	228	1,72	2,25
	552550	2	x	24	x	1		48	450	416	380	340	295	240	1,72	2,25
400 A	552470	6	x	15,5	x	0,8		74,4	476	440	402	360	318	254	1,72	2,25
	552480	10	x	15,5	x	0,8		124	538	498	455	407	352	288	1,72	2,25
	552510	4	x	20	x	1		80	476	440	402	360	312	254	1,72	2,25
	552520	5	x	20	x	1		100	498	460	420	376	326	266	1,72	2,25
	552530	6	x	20	x	1		120	546	506	462	413	358	292	1,72	2,25
	552560	3	x	24	x	1		72	490	453	413	370	320	261	1,72	2,25
	552570	4	x	24	x	1		96	550	510	465	416	360	294	1,72	2,25
	552620	2	x	32	x	1		64	480	445	406	363	315	257	1,72	2,25
	552630	3	x	32	x	1		96	570	525	480	430	372	304	1,72	2,25
	552690	2	x	40	x	1		80	538	500	455	406	352	288	1,72	2,25
500 A	552580	5	x	24	x	1		120	608	563	514	460	398	325	1,72	2,25
	552590	6	x	24	x	1		144	670	620	566	506	438	358	1,72	2,25
	552640	4	x	32	x	1		128	648	600	548	490	425	347	1,72	2,25
	552700	3	x	40	x	1		120	617	570	522	466	405	330	1,72	2,25
	552710	4	x	40	x	1		160	727	673	615	550	476	389	1,72	2,25
	552760	3	x	50	x	1		150	700	650	592	530	460	374	1,72	2,25
630 A	552540	10	x	20	x	1		200	762	706	645	576	500	408	1,72	2,25
	552600	8	x	24	x	1		192	802	743	678	606	525	429	1,72	2,25
	552650	5	x	32	x	1		160	758	702	640	573	496	405	1,72	2,25
	552660	6	x	32	x	1		192	846	783	715	640	555	452	1,72	2,25
	552720	5	x	40	x	1		200	900	832	760	680	590	481	1,72	2,25
	552770	4	x	50	x	1		200	860	795	727	650	563	460	1,72	2,25
800 A	552610	10	x	24	x	1		240	948	877	800	716	592	506	1,72	2,25
	552670	8	x	32	x	1		256	1018	943	860	770	667	544	1,72	2,25
	552730	6	x	40	x	1		240	1018	943	860	770	667	544	1,72	2,25
	552780	5	x	50	x	1		250	1100	1016	930	830	718	588	1,72	2,25
	552830	4	x	63	x	1		252	1010	935	855	763	661	541	1,65	2,12
1000 A	552680	10	x	32	x	1		320	1230	1140	1040	930	805	658	1,72	2,25
	552740	8	x	40	x	1		320	1230	1140	1040	930	805	658	1,72	2,25
	552750	10	x	40	x	1		400	1400	1295	1181	1055	915	747	1,72	2,25
	552790	6	x	50	x	1		300	1225	1135	1035	925	802	655	1,72	2,25
	552800	8	x	50	x	1		400	1393	1290	1175	1050	912	743	1,72	2,25
	552840	5	x	63	x	1		315	1220	1125	1030	920	797	651	1,65	2,12
	552850	6	x	63	x	1		378	1437	1330	1215	1085	941	768	1,65	2,12
	552890	4	x	80	x	1		320	1200	1110	1015	906	785	642	1,65	2,12
	552900	5	x	80	x	1		400	1390	1285	1175	1050	910	743	1,65	2,12
1250 A	552810	10	x	50	x	1		500	1650	1525	1395	1245	1080	882	1,72	2,25
	552860	8	x	63	x	1		504	1650	1525	1395	1245	1080	882	1,65	2,12
	552910	6	x	80	x	1		480	1627	1505	1375	1230	1065	870	1,65	2,12
	552950	5	x	100	x	1		500	1635	1515	1385	1235	1070	876	1,6	2,02
	552960	6	x	100	x	1		600	1843	1705	1550	1393	1205	980	1,6	2,02
1600 A	552870	10	x	63	x	1		630	1895	1755	1600	1435	1240	1012	1,65	2,12
	552920	8	x	80	x	1		640	1895	1755	1600	1430	1240	1012	1,65	2,12
	552930	10	x	80	x	1		800	2100	1945	1775	1585	1375	1123	1,65	2,12
	552970	8	x	100	x	1		800	2147	1990	1815	1625	1405	1148	1,6	2,02
	552980	10	x	100	x	1		1000	2350	2170	1985	1775	1535	1255	1,6	2,02
	552990	12	x	100	x	1		1200	2500	2315	2115	1890	1636	1338	1,6	2,02
	538650	10	x	120	x	1		1200	2755	2550	2330	2070	1792	1474	1,49	1,95

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.