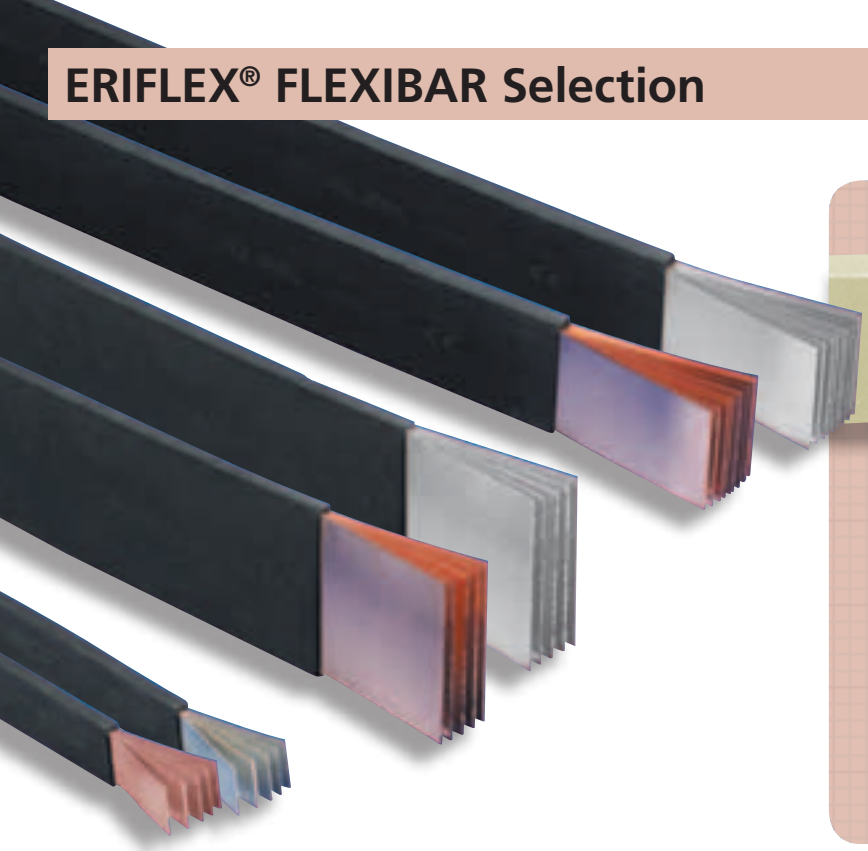
ERIFLEX® FLEXIBAR Selection



ERIFLEX FLEXIBAR
Flexible Wire Replacement
Technical Characteristics

- Conductor is electrolytic copper (Cu-ETP)
- Insulation is high-resistance vinyl compound:
  - Elongation: 370%
  - Maximum working temperature: 105°C
  - Minimum working temperature: -25°C
  - Thickness: 2 mm ± 0,2
  - Self-extinguishing: UL® 94 VO
  - Dielectric strength: 20kV/mm

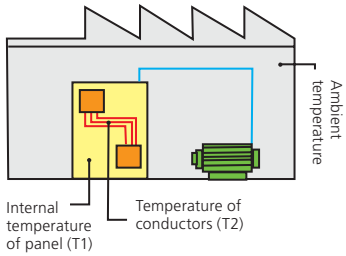
< 400 Amps @ Delta T = 45 C

Part Number	Length	Composition			UL-rated Ampacity Temp. Rise of			Description	Current Coefficient	
		N	A mm	B mm	30° C	45°C	60°C		2 in parallel	3 in parallel
505051	2	3	9	0.8	126	158	185	ERIFLEX FLEXIBAR 2MTC 3x9x0.8	1.72	2.25
505053	2	3	13	0.5	128	160	187	ERIFLEX FLEXIBAR 2MTC 3x13x0.5	1.72	2.25
505059	2	2	15.5	0.8	152	190	222	ERIFLEX FLEXIBAR 2MTC 2x15.5x0.8	1.72	2.25
505054	2	6	13	0.5	188	235	275	ERIFLEX FLEXIBAR 2MTC 6x13x0.5	1.72	2.25
505052	2	6	9	0.8	192	241	281	ERIFLEX FLEXIBAR 2MTC 6x9x0.8	1.72	2.25
505501	3	2	20	1	211	263	307	ERIFLEX FLEXIBAR 2MTC 2x20x1	1.72	2.25
505055	2	4	15.5	0.8	223	279	326	ERIFLEX FLEXIBAR 2MTC 4x15.5x0.8	1.72	2.25
505506	3	2	24	1	244	305	357	ERIFLEX FLEXIBAR 2MTC 2x24x1	1.72	2.25
505502	3	3	20	1	263	328	383	ERIFLEX FLEXIBAR 2MTC 3x20x1	1.72	2.25
505056	2	6	15.5	0.8	282	353	412	ERIFLEX FLEXIBAR 2MTC 6x15.5x0.8	1.72	2.25
505507	3	3	24	1	304	379	443	ERIFLEX FLEXIBAR 2MTC 3x24x1	1.72	2.25
505503	3	4	20	1	308	385	450	ERIFLEX FLEXIBAR 2MTC 4x20x1	1.72	2.25
505513	3	2	32	1	311	385	454	ERIFLEX FLEXIBAR 2MTC 2x32x1	1.72	2.25

400 < Ampacity < 800 A @ Delta T = 45 C

Part Number	Length	Composition			UL-rated Ampacity Temp. Rise of			Description	Current Coefficient	
		N	A mm	B mm	30° C	45°C	60°C		2 in parallel	3 in parallel
505504	3	5	20	1	351	438	512	ERIFLEX FLEXIBAR 3MTC 5x20x1	1.72	2.25
505508	3	4	24	1	356	445	520	ERIFLEX FLEXIBAR 3MTC 4x24x1	1.72	2.25
505520	3	2	40	1	376	470	549	ERIFLEX FLEXIBAR 3MTC 2x40x1	1.72	2.25
505514	3	3	32	1	385	481	562	ERIFLEX FLEXIBAR 3MTC 3x32x1	1.72	2.25
505505	3	6	20	1	390	487	569	ERIFLEX FLEXIBAR 3MTC 6x20x1	1.72	2.25
505509	3	5	24	1	403	504	589	ERIFLEX FLEXIBAR 3MTC 5x24x1	1.72	2.25
505510	3	6	24	1	448	559	653	ERIFLEX FLEXIBAR 3MTC 6x24x1	1.72	2.25
505515	3	4	32	1	449	561	665	ERIFLEX FLEXIBAR 3MTC 4x32x1	1.72	2.25
505521	3	3	40	1	464	580	677	ERIFLEX FLEXIBAR 3MTC 3x40x1	1.72	2.25
505516	3	5	32	1	507	633	740	ERIFLEX FLEXIBAR 3MTC 5x32x1	1.72	2.25
505511	3	8	24	1	531	663	775	ERIFLEX FLEXIBAR 3MTC 8x24x1	1.72	2.25
505522	3	4	40	1	541	675	789	ERIFLEX FLEXIBAR 3MTC 4x40x1	1.72	2.25
505517	3	6	32	1	561	701	819	ERIFLEX FLEXIBAR 3MTC 3x32x1	1.72	2.25
505527	3	3	50	1	562	702	820	ERIFLEX FLEXIBAR 3MTC 3x50x1	1.72	2.25
505512	3	10	24	1	606	757	885	ERIFLEX FLEXIBAR 3MTC 10x24x1	1.72	2.25
505523	3	5	40	1	608	759	887	ERIFLEX FLEXIBAR 3MTC 5x40x1	1.72	2.25

Selection of ERIFLEX® FLEXIBAR according to the internal temperature of the panel



Temperature rise of conductor = T2 - T1 = D T (C°)

Ex: For a current of 650A, with: T1 = 45°C - T2 = 90°C

1) ΔT = 90 - 45 = 45°C
2) In the 45°C column, find the closest current value to 650A. ERIFLEX FLEXIBAR 8x24x1 - 505511 - 192 mm² - 663 Amps.
3) Select ERIFLEX FLEXIBAR according to the terminal width of the equipment being connected.

800 < Ampacity < 1200 A @ Delta T = 45 C

Part Number	Length	Composition			UL-rated Ampacity Temp. Rise of			Description	Current Coefficient	
		N	A mm	B mm	30° C	45°C	60°C		2 in parallel	3 in parallel
505528	3	4	50	1	651	813	950	ERIFLEX FLEXIBAR 3MTC 4x50x1	1.72	2.25
505518	3	8	32	1	657	821	959	ERIFLEX FLEXIBAR 3MTC 8x32x1	1.72	2.25
505524	3	6	40	1	669	835	976	ERIFLEX FLEXIBAR 3MTC 6x40x1	1.72	2.25
505533	3	3	63	1	687	857	1002	ERIFLEX FLEXIBAR 3MTC 3x63x1	1.65	2.12
505529	3	5	50	1	730	911	1065	ERIFLEX FLEXIBAR 3MTC 5x50x1	1.72	2.25
505551	3	6	45	1	736	919	1074	ERIFLEX FLEXIBAR 3MTC 6x45x1	1.72	2.25
505519	3	10	32	1	745	931	1088	ERIFLEX FLEXIBAR 3MTC 10x32x1	1.72	2.25
505525	3	8	40	1	786	981	1146	ERIFLEX FLEXIBAR 3MTC 8x40x1	1.72	2.25
505534	3	4	63	1	792	988	1155	ERIFLEX FLEXIBAR 3MTC 4x63x1	1.65	2.12
505530	3	6	50	1	802	1002	1171	ERIFLEX FLEXIBAR 3MTC 6x50x1	1.72	2.25
505539	3	3	80	1	844	1053	1231	ERIFLEX FLEXIBAR 3MTC 3x80x1	1.65	2.12
505526	3	10	40	1	879	1097	1282	ERIFLEX FLEXIBAR 3MTC 10x40x1	1.72	2.25
505535	3	5	63	1	883	1102	1288	ERIFLEX FLEXIBAR 3MTC 5x63x1	1.65	2.12
505531	3	8	50	1	927	1157	1352	ERIFLEX FLEXIBAR 3MTC 8x50x1	1.72	2.25

1200 < Ampacity < 1600 A @ Delta T = 45 C

Part Number	Length	Composition			UL-rated Ampacity Temp. Rise of			Description	Current Coefficient	
		N	A mm	B mm	30° C	45°C	60°C		2 in parallel	3 in parallel
505536	3	6	63	1	966	1205	1408	ERIFLEX FLEXIBAR 3MTC 6x63x1	1.65	2.12
505540	3	4	80	1	970	1211	1415	ERIFLEX FLEXIBAR 3MTC 4x80x1	1.65	2.12
505532	3	10	50	1	1040	1298	1517	ERIFLEX FLEXIBAR 3MTC 10x50x1	1.72	2.25
505541	3	5	80	1	1077	1344	1570	ERIFLEX FLEXIBAR 3MTC 5x80x1	1.65	2.12
505537	3	8	63	1	1108	1383	1616	ERIFLEX FLEXIBAR 3MTC 8x63x1	1.65	2.12
505542	3	6	80	1	1172	1463	1709	ERIFLEX FLEXIBAR 3MTC 6x80x1	1.65	2.12
505538	3	10	63	1	1232	1538	1797	ERIFLEX FLEXIBAR 3MTC 10x63x1	1.65	2.12

1600 < Ampacity < 2000 A @ Delta T = 45 C

Part Number	Length	Composition			UL-rated Ampacity Temp. Rise of			Description	Current Coefficient	
		N	A mm	B mm	30° C	45°C	60°C		2 in parallel	3 in parallel
505546	3	5	100	1	1301	1624	1898	ERIFLEX FLEXIBAR 3MTC 5x100x1	1.60	2.02
505543	3	8	80	1	1341	1674	1956	ERIFLEX FLEXIBAR 3MTC 8x80x1	1.65	2.12
505547	3	6	100	1	1414	1765	2062	ERIFLEX FLEXIBAR 3MTC 6x100x1	1.60	2.02
505544	3	10	80	1	1484	1851	2164	ERIFLEX FLEXIBAR 3MTC 10x80x1	1.65	2.12

2000 < Ampacity @ Delta T = 45 C

Part Number	Length	Composition			UL-rated Ampacity Temp. Rise of			Description	Current Coefficient	
		N	A mm	B mm	30° C	45°C	60°C		2 in parallel	3 in parallel
505548	3	8	100	1	1598	1994	2330	ERIFLEX FLEXIBAR 3MTC 8x100x1	1.60	2.02
505549	3	10	100	1	1765	2203	2574	ERIFLEX FLEXIBAR 3MTC 10x100x1	1.60	2.02
505550	3	12	100	1	1920	2396	2800	ERIFLEX FLEXIBAR 3MTC 12x100x1	1.60	2.02

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.