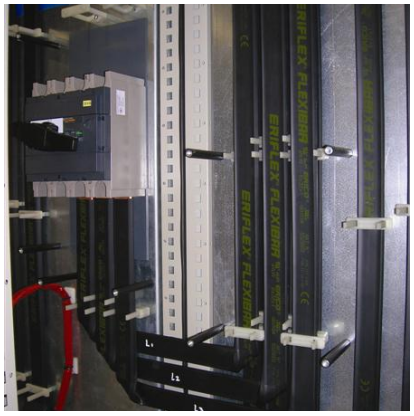
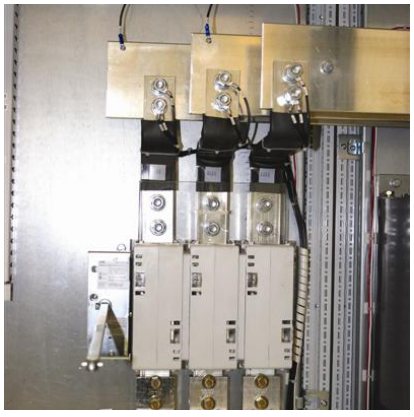
PENTAIR

LOW VOLTAGE POWER AND GROUNDING CONNECTIONS

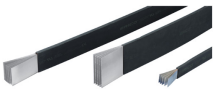
FEATURED PRODUCTS

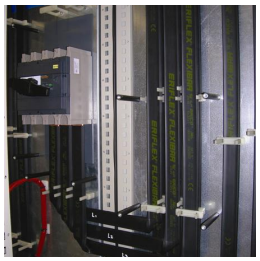




ERIFLEX

ERIFLEX FLEXIBAR Advanced, Tinned Copper



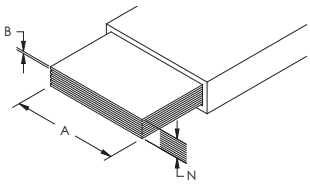

After extensive research, ERIFLEX is proud to establish a new gold standard in terms of insulation for flexible busbar called ERIFLEX FLEXIBAR Advanced. The new product is low smoke, halogen-free and flame retardant all while maintaining the level of flexibility and reliability that our partners have come to expect from ERIFLEX FLEXIBAR.

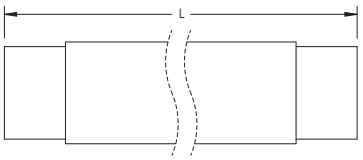
Compared to standard PVC insulation, ERIFLEX FLEXIBAR Advanced does not generate corrosive gases and produces a relatively low smoke opacity in accordance with ISO 5659-2. The low smoke characteristic improves the visibility conditions for people to be able to easily locate the emergency exit and also allows rescue workers to assess an emergency situation more clearly. ERIFLEX FLEXIBAR Advanced means greater safety for individuals, less damage for your electrical equipment and less environmental impact.

The halogen–free feature enables a reduction in the quantity of toxic smoke. ERIFLEX FLEXIBAR Advanced does not contain any halogens, according to IEC 60754-1, minimizing toxicity and making it the ideal product for use in enclosed spaces such as data centers, rail and other spaces where people are welcome such as hospitals and schools. This also facilitates the use of ERIFLEX FLEXIBAR Advanced in specific applications such as submarines, switchboards and other enclosed environments that require a low emissions solution.

In addition to being halogen-free, ERIFLEX FLEXIBAR Advanced is also compliant with the UL 94-V0 testing standard. The flame retardant portion of the test illustrates the self-extinguish feature. This superior feature of ERIFLEX FLEXIBAR Advanced is also shown by the Limiting Oxygen Index (LOI) at 30%. In case of fire, ERFILEX FLEXIBAR Advanced generates a limited quantity of smoke that is less damaging to your electrical equipment.

- Thin layers of tinned electrolytic copper formed into a stack
- Full range from 19.5 mm² up to 1200 mm² and 125 A to 2800 A
- Insulated by high-resistance, halogen free, flame retardant and low smoke material with less than 20% contact with conductor for high flexibility
- Easily bent, folded, and twisted, improving assembly flexibility, shortening connections, and decreasing footprint
- Dramatically smaller and more flexible than comparable cable based on ampacity
- Better power density than cable with lower skin effect ratio
- Connections made by punching and bolting directly through the copper laminates or clamping onto the end of the ERIFLEX FLEXIBAR
- No lugs needed, reducing installation time and improving resistance to vibration
- Weight savings and material savings compared to wire alternatives
- Reduces total installation cost
- Traceability codes and designation part numbers printed on insulation
- 100% production dielectric tested
- RoHS compliant





Finish: Tinned
Material: Copper, Thermoplastic Elastomer
Dielectric Strength: 20 kV/mm
Flammability Rating: UL® 94V-0
Halogen Free Rating: UL® 2885, IEC® 60754-1, IEC® 62821-2
Low Smoke Rating: IEC® 61034-2, ISO 5659-2
Insulation Elongation: 500 %
Insulation Thickness: 1,8 mm
Nominal Voltage, UL/IEC: 1 000 VAC, 1 500 VDC
Operating Temperature: -40 to 105 °C
Certification Details: UL® 67, UL® 758
Complies With: IEC® 60695-2-12 (Glow Wire Test 960 °C), IEC® 61439.1, IEC® 61439.1 Class II

Part Number	Article Number	L (mm)	ΔT 40 K (A)	ΔT 50 K (A)	ΔT 60 K (A)	N	A (mm)	B (mm)	Cross Section (mm²)	2 Bar Current Coefficient	3 Bar Current Coefficient
Typical Application Current Rating: 125 A											
FADV2MTC3X9	534001	2 000	120	134	147	3	9,0	0,8	21,6	1,72	2,25
FADV2MTC8X6	534000	2 000	143	166	182	8	6,0	0,5	24,0	1,72	2,25
FADV2MTC3X13	534004	2 000	150	167	184	3	13,0	0,5	19,5	1,72	2,25
FADV2MTC2X15-5	534006	2 000	191	212	234	2	15,5	0,8	24,8	1,72	2,25
FADV2MTC6X9	534002	2 000	220	245	269	6	9,0	0,8	43,2	1,72	2,25
Typical Application Current Rating: 250 A											
FADV2MTC6X13	534005	2 000	226	253	277	6	13,0	0,5	39,0	1,72	2,25
FADV2MTC9X9	534003	2 000	237	265	291	9	9,0	0,8	64,8	1,72	2,25
FADV2MTC2X20X1	534010	2 000	246	275	300	2	20,0	1,0	40,0	1,72	2,25
FADV2MTC4X15-5	534007	2 000	286	320	350	4	15,5	0,8	49,6	1,72	2,25
FADV2MTC3X20X1	534011	2 000	323	360	395	3	20,0	1,0	60,0	1,72	2,25
FADV2MTC2X24X1	534016	2 000	340	380	416	2	24,0	1,0	48,0	1,72	2,25
Typical Application Current Rating: 400 A											
FADV2MTC4X20X1	534012	2 000	360	402	440	4	20,0	1,0	80,0	1,72	2,25
FADV2MTC6X15-5	534008	2 000	360	402	440	6	15,5	0,8	74,4	1,72	2,25
FADV2MTC2X32X1	534023	2 000	363	406	445	2	32,0	1,0	64,0	1,72	2,25
FADV2MTC3X24X1	534017	2 000	370	413	453	3	24,0	1,0	72,0	1,72	2,25
FADV2MTC5X20X1	534013	2 000	376	420	460	5	20,0	1,0	100,0	1,72	2,25
FADV2MTC2X40X1	534030	2 000	406	455	500	2	40,0	1,0	80,0	1,72	2,25
FADV2MTC10X15-5	534009	2 000	407	455	498	10	15,5	0,8	124,0	1,72	2,25
FADV2MTC6X20X1	534014	2 000	413	462	506	6	20,0	1,0	120,0	1,72	2,25
FADV2MTC4X24X1	534018	2 000	416	465	510	4	24,0	1,0	96,0	1,72	2,25
FADV2MTC3X32X1	534024	2 000	430	480	525	3	32,0	1,0	96,0	1,72	2,25
Typical Application Current Rating: 500 A											
FADV2MTC5X24X1	534019	2 000	460	514	563	5	24,0	1,0	120,0	1,72	2,25
FADV2MTC3X40X1	534031	2 000	466	522	570	3	40,0	1,0	120,0	1,72	2,25
FADV2MTC4X32X1	534025	2 000	490	548	600	4	32,0	1,0	128,0	1,72	2,25
FADV2MTC6X24X1	534020	2 000	506	566	620	6	24,0	1,0	144,0	1,72	2,25
FADV2MTC3X50X1	534037	2 000	530	592	650	3	50,0	1,0	150,0	1,72	2,25
FADV2MTC4X40X1	534032	2 000	550	615	673	4	40,0	1,0	160,0	1,72	2,25
Typical Application Current Rating: 630 A											
FADV2MTC5X32X1	534026	2 000	573	640	702	5	32,0	1,0	160,0	1,72	2,25
FADV2MTC10X20X1	534015	2 000	576	645	706	10	20,0	1,0	200,0	1,72	2,25
FADV2MTC8X24X1	534021	2 000	606	678	743	8	24,0	1,0	192,0	1,72	2,25
FADV2MTC6X32X1	534027	2 000	640	715	783	6	32,0	1,0	192,0	1,72	2,25

Part Number	Article Number	L (mm)	ΔT 40 K (A)	ΔT 50 K (A)	ΔT 60 K (A)	N	A (mm)	B (mm)	Cross Section (mm^2)	2 Bar Current Coefficient	3 Bar Current Coefficient
FADV2MTC4X50X1	534038	2 000	650	727	795	4	50,0	1,0	200,0	1,72	2,25
FADV2MTC5X40X1	534033	2 000	680	760	832	5	40,0	1,0	200,0	1,72	2,25
Typical Application Current Rating: 800 A											
FADV2MTC10X24X1	534022	2 000	716	800	877	10	24,0	1,0	240,0	1,72	2,25
FADV2MTC4X63X1	534044	2 000	763	855	935	4	63,0	1,0	252,0	1,65	2,12
FADV2MTC6X40X1	534034	2 000	770	860	943	6	40,0	1,0	240,0	1,72	2,25
FADV2MTC8X32X1	534028	2 000	770	860	943	8	32,0	1,0	256,0	1,72	2,25
FADV2MTC5X50X1	534039	2 000	830	930	1 016	5	50,0	1,0	250,0	1,72	2,25
Typical Application Current Rating: 1 000 A											
FADV2MTC4X80X1	534049	2 000	906	1 015	1 110	4	80,0	1,0	320,0	1,65	2,12
FADV2MTC5X63X1	534045	2 000	920	1 030	1 125	5	63,0	1,0	315,0	1,65	2,12
FADV2MTC6X50X1	534040	2 000	925	1 035	1 135	6	50,0	1,0	300,0	1,72	2,25
FADV2MTC8X40X1	534035	2 000	930	1 040	1 140	8	40,0	1,0	320,0	1,72	2,25
FADV2MTC10X32X1	534029	2 000	930	1 040	1 140	10	32,0	1,0	320,0	1,72	2,25
FADV2MTC5X80X1	534050	2 000	1 050	1 175	1 285	5	80,0	1,0	400,0	1,65	2,12
FADV2MTC8X50X1	534041	2 000	1 050	1 175	1 290	8	50,0	1,0	400,0	1,72	2,25
FADV2MTC10X40X1	534036	2 000	1 055	1 181	1 295	10	40,0	1,0	400,0	1,72	2,25
FADV2MTC6X63X1	534046	2 000	1 085	1 215	1 330	6	63,0	1,0	378,0	1,65	2,12
Typical Application Current Rating: 1 250 A											
FADV2MTC6X80X1	534051	2 000	1 230	1 375	1 505	6	80,0	1,0	480,0	1,65	2,12
FADV2MTC5X100X1	534055	2 000	1 235	1 385	1 515	5	100,0	1,0	500,0	1,60	2,02
FADV2MTC8X63X1	534047	2 000	1 245	1 395	1 525	8	63,0	1,0	504,0	1,65	2,12
FADV2MTC10X50X1	534042	2 000	1 245	1 395	1 525	10	50,0	1,0	500,0	1,72	2,25
FADV2MTC6X100X1	534056	2 000	1 393	1 550	1 705	6	100,0	1,0	600,0	1,60	2,02
Typical Application Current Rating: 1 600 A											
FADV2MTC8X80X1	534052	2 000	1 430	1 600	1 755	8	80,0	1,0	640,0	1,65	2,12
FADV2MTC10X63X1	534048	2 000	1 435	1 600	1 755	10	63,0	1,0	630,0	1,65	2,12
FADV2MTC10X80X1	534053	2 000	1 585	1 775	1 945	10	80,0	1,0	800,0	1,65	2,12
FADV2MTC8X100X1	534057	2 000	1 625	1 815	1 990	8	100,0	1,0	800,0	1,60	2,02
FADV2MTC10X100	534058	2 000	1 775	1 985	2 170	10	100,0	1,0	1 000,0	1,60	2,02
FADV2MTC12X100	534059	2 000	1 890	2 115	2 315	12	100,0	1,0	1 200,0	1,60	2,02
FADV2MTC10X120	534060	2 000	2 070	2 330	2 550	10	120,0	1,0	1 200,0	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.

ΔT = Temperature of conductors – Internal temperature of panel.

Refer to technical documentation for additional ampacity ratings.