

Methodé Insulated Flexible Bus Bar



Technical data of Insulated Flexible Bus Bar

- ❑ Operating temperature: -30°C to +105°C
- ❑ Operating voltage: 750V max
- ❑ Voltage withstand performance with 15min / 50Hz AC:
 - Between Insulated Flexible Bus Bar and earth: ≥ 15KV
 - Between two conductors of Insulated Flexible Bus Bar: ≥ 30KV

Technical data of electrical conductor

- ❑ Copper strips (≥ 99.9% Cu, C1100, ¼ Hard)
- ❑ Surface: uncoated or tinned
- ❑ Resistivity: ≤ 1.785 μΩcm²/cm
- ❑ Electrical conductivity: ≥ 55 Sm/mm²
- ❑ Tensile strength: ≥ 200 N/mm²
- ❑ Extensibility: ≥ 30%

Technical data of insulation

- ❑ Material: Polyvinylchloride (PVC) – UL94V0, Flame retardant, self-extinguishing
- ❑ Colour: Black
- ❑ Thickness: 1.8 – 2.1 mm
- ❑ Shore hardness: A70-80
- ❑ Dielectric strength: ≥ 23 KV/mm
- ❑ Oxygen index: 30%
- ❑ Elasticity: ≥ 180% after 7-day aging-test at 135°C
- ❑ Tensile strength: ≥ 20 MPa



Methode Insulated Flexible Bus Bar

Copper Width (mm)	No of Layers Width Thickness	Cross Section (mm ²)	Ampacity (A)		
			$\Delta T = 20^{\circ}\text{C}$	$\Delta T = 40^{\circ}\text{C}$	$\Delta T = 50^{\circ}\text{C}$
15.5	2 x 15.5 x 0.8	24.8	125	175	200
	3 x 15.5 x 0.8	37.2	160	210	240
	4 x 15.5 x 0.8	49.6	195	265	295
	6 x 15.5 x 0.8	74.4	225	320	360
	8 x 15.5 x 0.8	99.2	265	380	430
	10 x 15.5 x 0.8	124	300	420	480
20.0	2 x 20 x 1	40	170	240	270
	3 x 20 x 1	60	230	320	360
	4 x 20 x 1	80	270	380	440
	5 x 20 x 1	100	300	430	490
	6 x 20 x 1	120	330	470	530
	8 x 20 x 1	160	400	560	620
	10 x 20 x 1	200	420	580	650
24.0	2 x 24 x 1	48	200	280	320
	3 x 24 x 1	72	250	360	410
	4 x 24 x 1	96	280	410	460
	5 x 24 x 1	120	330	470	530
	6 x 24 x 1	144	360	510	570
	8 x 24 x 1	192	420	590	670
	10 x 24 x 1	240	500	700	790
32.0	2 x 32 x 1	64	230	320	360
	3 x 32 x 1	96	280	410	460
	4 x 32 x 1	128	320	460	520
	5 x 32 x 1	160	390	550	610
	6 x 32 x 1	192	440	620	700
	8 x 32 x 1	256	510	720	822
	10 x 32 x 1	320	600	840	930
40.0	2 x 40 x 1	80	240	330	380
	3 x 40 x 1	120	330	480	540
	4 x 40 x 1	160	400	560	630
	5 x 40 x 1	200	450	630	710
	6 x 40 x 1	240	480	680	750
	8 x 40 x 1	320	600	830	920
	10 x 40 x 1	400	670	920	1030
50.0	3 x 50 x 1	150	400	570	650
	4 x 50 x 1	200	490	700	790
	5 x 50 x 1	250	540	780	880
	6 x 50 x 1	300	590	840	950
	8 x 50 x 1	400	680	1000	1130
	10 x 50 x 1	500	750	1100	1300
63.0	5 x 63 x 1	315	650	900	1000
	6 x 63 x 1	378	690	980	1100
	8 x 63 x 1	504	840	1200	1350
	10 x 63 x 1	630	920	1300	1450