

# FLEXIBLE BUSBARS

## ISOFLEXX BUSBARS

Isoflexx® is an insulated and laminated busbar system made to the highest technical standards. Isoflexx is made of several layered copper lamellas protected by a special high grade PVC insulation. The loose lamellas give the Isoflexx product the maximum available flexibility. This means that Isoflexx saves space and is fast and easy to install. The operating voltages are 1000Vac and 1500Vdc and the dielectric strength is 20kV/mm. Operating temperatures are -30°C to +105°C. UL certified.



Operating Current					
Values according to DIN 43671 for busbars in switchgear					
Heating* of busbar at an ambient temperature of 35 °C					
Product Code	Dimensions N x W x T	Cross Section mm <sup>2</sup>	65 °C Δ=T 30K	85 °C Δ=T 50K Recommended value	105 °C Δ=T 70K
11311000	3x9x0.8	21.6	98	130	152
11311020	6x9x0.8	43.2	147	196	228
11311420	9x9x0.8	64.8	179	238	277
11311060	4x15.5x0.8	49.6	201	267	312
11311070	6x15.5x0.8	74.4	252	335	391
11311550	2x20x1	40	188	250	291
11311560	3x20x1	60	237	315	367
11311570	4x20x1	80	278	370	431
11311530	2x24x1	48	201	267	312
11311440	3x24x1	72	276	367	428
11311080	10x15.5x0.8	124	330	439	512
11311580	5x20x1	100	319	424	494
11311590	6x20x1	120	355	472	550
11311450	4x24x1	96	322	428	499
11311460	5x24x1	120	369	491	572
11311470	6x24x1	144	407	541	631
11311500	4x32x1	128	418	556	648
11311480	8x24x1	192	483	642	749
11311490	10x24x1	240	559	743	866
11311430	5x32x1	160	477	634	739
11311510	6x32x1	192	526	700	815
11311130	5x40x1	200	573	763	888
11311690	6x40x1	240	628	835	1112
11311520	8x32x1	256	623	829	966
11311390	10x32x1	320	721	959	1118
11311160	5x50x1	250	697	927	1080
11311680	6x50x1	300	762	1013	1349
11311150	10x40x1	400	850	1131	1318
11311180	10x50x1	500	1020	1357	1581
11311210	10x63x1	630	1180	1569	2089
11311240	10x80x1	800	1500	1995	2655
11311270	10x100x1	1000	1810	2407	3204

**Notes:** Isoflexx® dimensions: N is the number of lamella in each bar, W the bar width and T is the thickness of each lamella. When using 2 bars in parallel multiply by 1.72, 3 bars by 2.25.

\*The heating of the busbar is dependant on current load, ambient temperature, method of installation and field of application. The above current ratings are to be used as guidelines only.

# FLEXIBLE BUSBAR ACCESSORIES

## ISOFLEXX FLAT CLAMPS

Isoflexx® Flat Clamps are suitable to connect flexible busbars without drilling. Can be fixed lengthways or on a 90° angle.



Product Code	Inner Dimensions A x B (mm)	Outer Dimensions C x D (mm)	Clamp Width E (mm)	Product Number
FAK 25x25	25 x 25	45 x 45	20	90010220
FAK 25x50	25 x 50	45 x 70	20	90010330
FAK 32x32	32 x 32	52 x 50	20	90010230
FAK 32x63	32 x 63	52 x 82	20	90010340
FAK 40x40	40 x 40	60 x 60	20	90010240
FAK 40x63	40 x 63	60 x 82	32	90010350
FAK 40x80	40 x 80	70 x 110	35	90010360
FAK 50x50	50 x 50	70 x 70	20	90010250

## ISOFLEXX PLASTIC FIXING DEVICES

For the installation of Isoflexx® to DIN Rails of 35mm, The plastic fixing devices are halogen free, self-extinguishing, glass fibre reinforced polyamide. Type KSH51 is suitable for use with cable ties.



Product Code	Description	Product Number
KSH 50	Complete set	90080400
KSH 51	Only lower part - suitable for use with cable tie	90080410

## ISOFLEXX DRILLING JIG

To drill Isoflexx® without any problems - different drilling jig models according to lamella width. Supplied with different drilling units.



Product Code	Width	Drill Hole (mm)	Product Number
BL 16	16 mm	6 / 8	90080100
BL 20	20 mm	8/10/12	90080110
BL 24	24 mm	8 / 10 / 12	90080120
BL 32	32 mm	10 / 12	90080130
BL 40	40 mm	10/12	90080140
BL 50	50 mm	10/12	90080150
BL 63	63 mm	10/12	90080160

## ISOFLEXX TOOLS



To bend Isoflexx® by hand without any problems you can use the Twisting Tool model number 90090110 pictured on the left. To bend Isoflexx® you can also use the bench mounted tool 90090100 pictured on the right. Price on application.

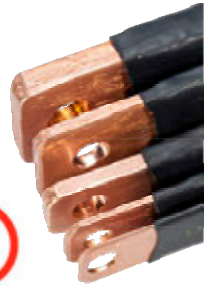


# FLEXIBLE BUSBAR

## ULTRAFLEXX FLEXIBLE BUSBARS



Ultraflexx® Flexible busbars are highly flexible connectors manufactured from flat copper braid. Unlike similar products Ultraflexx is press-welded with a special patented process that makes the ends a solid piece of copper. These solid ends can even be machined without any problems at all. This has the advantage of the lowest possible contact resistance. It also means that there is no chance of corrosion increasing the contact resistance over time. The operating voltages are 1000Vac and 1500Vdc and the dielectric strength is 20kV/mm. Operating temperatures are -55°C to +125°C. Ultraflexx is UL certified.



### ULTRAFLEXX 25MM<sup>2</sup>

25mm<sup>2</sup> Ultraflexx has a recommended current rating of 160 Amps for single conductors or 260 Amps for two conductors in parallel. Nominal current at 35°C ambient temperature and 85°C flexible temperature. One side has an 8.5mm hole and the other a 10.5mm hole.

Product Code	Width (mm)	Thickness (mm)	Length Between Centre of Terminal Holes	Overall Length (mm)	Product Number
ULFX 25-150-8/10	20	1.4	150	163	62150523
ULFX 25-200-8/10	20	1.4	200	223	62151023
ULFX 25-250-8/10	20	1.4	250	272	62151523
ULFX 25-300-8/10	20	1.4	300	322	62151923
ULFX 25-350-8/10	20	1.4	350	372	62152323
ULFX 25-400-8/10	20	1.4	400	422	62152823
ULFX 25-450-8/10	20	1.4	450	472	62153323
ULFX 25-500-8/10	20	1.4	500	522	62153523
ULFX 25-550-8/10	20	1.4	550	572	62153823
ULFX 25-600-8/10	20	1.4	600	622	62154023
ULFX 25-650-8/10	20	1.4	650	672	62154523
ULFX 25-700-8/10	20	1.4	700	722	62155023
ULFX 25-800-8/10	20	1.4	800	822	62156023
ULFX 25-750-8/10	20	1.4	750	772	62155523
ULFX 25-850-8/10	20	1.4	850	872	62156523
ULFX 25-900-8/10	20	1.4	900	922	62156823
ULFX 25-950-8/10	20	1.4	950	972	62157523
ULFX 25-1000-8/10	20	1.4	1000	1022	62158023

# FLEXIBLE BUSBAR

## ULTRAFLEXX 50MM<sup>2</sup>

50mm<sup>2</sup> Ultraflexx has a recommended current rating of 250 Amps for single conductors or 430 Amps for two conductors in parallel. Nominal current at 35°C ambient temperature and 85°C flexible temperature. One side has an 8.5mm hole and the other a 10.5mm hole.

Product Code	Width (mm)	Thickness (mm)	Length Between Centre of Terminal Holes	Overall Length (mm)	Product Number
ULFX 50-200-8/10	20	2.9	200	225	62251023
ULFX 50-250-8/10	20	2.9	250	275	62251523
ULFX 50-300-8/10	20	2.9	300	325	62251923
ULFX 50-350-8/10	20	2.9	350	375	62252323
ULFX 50-400-8/10	20	2.9	400	425	62252823
ULFX 50-450-8/10	20	2.9	450	475	62253323
ULFX 50-500-8/10	20	2.9	500	525	62253523
ULFX 50-550-8/10	20	2.9	550	575	62253823
ULFX 50-600-8/10	20	2.9	600	625	62254023
ULFX 50-650-8/10	20	2.9	650	675	62254523
ULFX 50-700-8/10	20	2.9	700	725	62255023
ULFX 50-800-8/10	20	2.9	800	825	62256023
ULFX 50-1000-8/10	20	2.9	1000	1025	62258023

*Further options available on request*

## ULTRAFLEXX 100MM<sup>2</sup>

100mm<sup>2</sup> Ultraflexx has a recommended current rating of 390 Amps for single conductors or 680 Amps for two conductors in parallel. Nominal current at 35°C ambient temperature and 85°C flexible temperature. Both sides have a 10.5mm hole.

Product Code	Width (mm)	Thickness (mm)	Length Between Centre of Terminal Holes	Overall Length (mm)	Product Number
ULFX 100-200-10	20	5.9	200	225	62551033
ULFX 100-250-10	20	5.9	250	275	62551533
ULFX 100-300-10	20	5.9	300	325	62551933
ULFX 100-350-10	20	5.9	350	375	62552333
ULFX 100-400-10	20	5.9	400	425	62552833
ULFX 100-450-10	20	5.9	450	475	62553333
ULFX 100-500-10	20	5.9	500	525	62553533
ULFX 100-550-10	20	5.9	550	575	62553833
ULFX 100-600-10	20	5.9	600	625	62554033
ULFX 100-650-10	20	5.9	650	675	62554533
ULFX 100-700-10	20	5.9	700	725	62555033
ULFX 100-800-10	20	5.9	800	825	62556033
ULFX 100-1000-10	20	5.9	1000	1025	62558033

*Further options available on request*

## ULTRAFLEXX 120MM<sup>2</sup>

120mm<sup>2</sup> Ultraflexx has a recommended current rating of 450 Amps for single conductors or 780 Amps for two conductors in parallel. Nominal current at 35°C ambient temperature and 85°C flexible temperature. Both sides have a 10.5mm hole.

Product Code	Width (mm)	Thickness (mm)	Length Between Centre of Terminal Holes	Overall Length (mm)	Product Number
ULFX 120-200-10	32	4.4	200	230	62651033
ULFX 120-300-10	32	4.4	300	330	62651933
ULFX 120-350-10	32	4.4	350	375	62552333
ULFX 120-400-10	32	4.4	400	430	62652833
ULFX 120-450-10	32	4.4	450	475	62553333
ULFX 120-500-10	32	4.4	500	530	62653533
ULFX 120-550-10	32	4.4	550	580	62653833
ULFX 120-600-10	32	4.4	600	630	62654033
ULFX 120-650-10	32	4.4	650	680	62654533
ULFX 120-700-10	32	4.4	700	730	62655033
ULFX 120-800-10	32	4.4	800	830	62656033
ULFX 120-1000-10	32	4.4	1000	1030	62658033

*Further options available on request*

## ULTRAFLEXX 240MM<sup>2</sup>

240mm<sup>2</sup> Ultraflexx has a recommended current rating of 700 Amps for single conductors or 1150 Amps for two conductors in parallel. Nominal current at 35°C ambient temperature and 85°C flexible temperature. Both sides have a 10.5mm hole.

Product Code	Width (mm)	Thickness (mm)	Length Between Centre of Terminal Holes	Overall Length (mm)	Product Number
ULFX 240-200-10	32	8.9	200	230	62851033
ULFX 240-300-10	32	8.9	300	330	62851933
ULFX 240-350-10	32	8.9	350	380	62852333
ULFX 240-400-10	32	8.9	400	430	62852833
ULFX 240-450-10	32	8.9	450	475	62853333
ULFX 240-500-10	32	8.9	500	530	62853533
ULFX 240-550-10	32	8.9	550	580	62853833
ULFX 240-600-10	32	8.9	600	630	62854033
ULFX 240-650-10	32	8.9	650	680	62854533
ULFX 240-700-10	32	8.9	700	730	62855033
ULFX 240-750-10	32	8.9	750	780	62855533
ULFX 240-800-10	32	8.9	800	830	62856033
ULFX 240-1000-10	32	8.9	1000	1030	62858033

*Further options available on request*

