

■ Datasheet: Flexible copper busbar



■ SCHRACK-INFO

- Easy formability
- Fast and easy installation
- Flexible for the installation of components

■ Technical data

Standards	IEC/EN 61439-1
Insulation	Vinyl compound
Conductor	Electrolytic copper
Bend	370 %
Operation temperature (max)	105 °C
Thickness	2 mm ±0,2 mm
Flammability acc. to OVE EN 60695-11-10 resp. -20	V-0
Operating voltage	<3500V~ / 4000=
Dielectric strength	20 kV/mm

■ Permissible currents

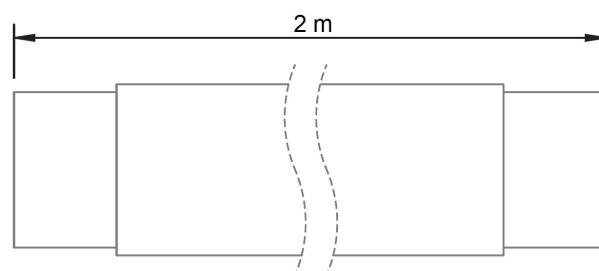
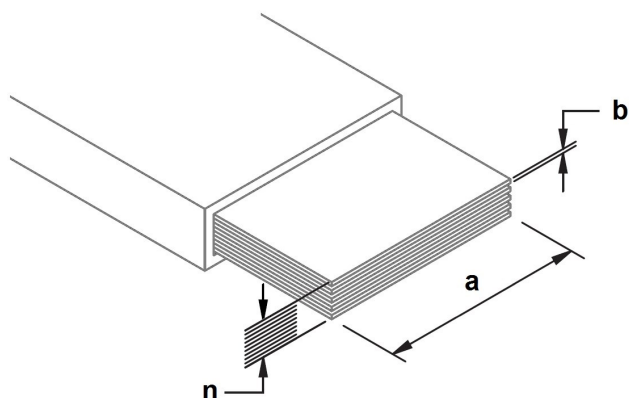
Current	n x a x b	Cross section (mm ²)	ΔT (°C)					Current coefficient	
	(mm)		70	60	50	40	30	2 Layers	3 Layers
250A	2 x 20 x 1	40	327	302	274	246	215	1,72	2,25
250A	3 x 20 x 1	60	427	395	361	323	281	1,72	2,25
250A	2 x 24 x 1	48	450	417	380	342	295	1,70	2,25

Current	n x a x b	Cross section	ΔT (°C)					Current coefficient	
	(mm)	(mm²)	70	60	50	40	30	2 Layers	3 Layers
400A	4 x 20 x 1	80	476	442	401	363	314	1,72	2,25
400A	5 x 20 x 1	101	498	461	421	376	327	1,72	2,25
400A	6 x 20 x 1	121	546	506	463	413	358	1,72	2,25
400A	3 x 24 x 1	72	493	453	413	371	320	1,72	2,25
400A	4 x 24 x 1	96	551	543	465	416	361	1,72	2,25
400A	2 x 32 x 1	64	481	445	406	364	315	1,72	2,25
400A	3 x 32 x 1	96	571	525	483	433	372	1,72	2,25
400A	2 x 40 x 1	80	538	503	455	404	352	1,72	2,25
500A	5 x 24 x 1	122	610	563	514	461	398	1,72	2,25
500A	6 x 24 x 1	143	671	621	566	506	438	1,72	2,25
500A	4 x 32 x 1	129	648	601	548	493	425	1,72	2,25
500A	3 x 40 x 1	121	617	573	522	466	405	1,72	2,25
500A	4 x 40 x 1	163	727	673	615	553	476	1,72	2,25
500A	3 x 50 x 1	152	701	653	592	530	462	1,72	2,25
630A	9 x 20 x 1	180	730	697	621	563	489	1,72	2,25
630A	10 x 20 x 1	202	762	707	645	576	502	1,72	2,25
630A	8 x 24 x 1	191	802	742	678	607	525	1,72	2,25
630A	9 x 24 x 1	217	881	812	742	668	561	1,72	2,25
630A	5 x 32 x 1	162	758	702	642	573	496	1,72	2,25
630A	6 x 32 x 1	192	846	783	715	642	555	1,72	2,25
630A	5 x 40 x 1	203	902	832	761	682	593	1,72	2,25
630A	4 x 50 x 1	201	862	795	727	653	563	1,72	2,25
630A	3 x 63 x 1	189	798	741	675	603	522	1,65	2,12
800A	10 x 24 x 1	243	948	877	803	716	592	1,72	2,25
800A	8 x 32 x 1	256	1018	943	863	770	667	1,72	2,25
800A	9 x 32 x 1	288	1125	1045	959	860	741	1,72	2,25
800A	6 x 40 x 1	240	1018	943	860	771	667	1,72	2,25
800A	5 x 50 x 1	252	1102	1016	932	832	718	1,72	2,25
800A	4 x 63 x 1	252	1012	935	855	763	661	1,65	2,12
800A	3 x 80 x 1	242	983	906	827	742	641	1,65	2,12
1000A	10 x 32 x 1	322	1232	1143	1041	933	805	1,72	2,25
1000A	8 x 40 x 1	320	1233	1142	1041	931	805	1,72	2,25
1000A	9 x 40 x 1	362	1318	1216	1113	993	862	1,72	2,25
1000A	10 x 40 x 1	402	1403	1295	1182	1055	915	1,72	2,25
1000A	6 x 50 x 1	301	1226	1135	1034	925	802	1,72	2,25
1000A	8 x 50 x 1	401	1393	1292	1175	1053	912	1,72	2,25
1000A	5 x 63 x 1	315	1221	1125	1032	923	797	1,65	2,12

Current	n x a x b	Cross section	ΔT (°C)					Current coefficient	
	(mm)	(mm ²)	70	60	50	40	30	2 Layers	3 Layers
1000A	6 x 63 x 1	378	1439	1333	1217	1085	941	1,65	2,12
1000A	4 x 80 x 1	324	1203	1112	1015	906	785	1,65	2,12
1000A	5 x 80 x 1	403	1392	1285	1175	1051	910	1,65	2,12
1000A	4 x 100 x 1	401	1446	1342	1225	1094	947	1,6	2,2
1250A	9 x 50 x 1	454	1525	1411	1287	1152	1001	1,72	2,25
1250A	10 x 50 x 1	504	1654	1525	1393	1245	1082	1,72	2,25
1250A	8 x 63 x 1	504	1652	1525	1396	1245	1085	1,65	2,12
1250A	9 x 63 x 1	567	1763	1640	1503	1341	1166	1,65	2,12
1250A	6 x 80 x 1	480	1626	1505	1374	1237	1065	1,65	2,12
1250A	5 x 100 x 1	501	1635	1517	1385	1235	1075	1,6	2,2
1250A	6 x 100 x 1	601	1843	1705	1551	1394	1205	1,6	2,2
1600A	10 x 63 x 1	631	1895	1755	1602	1435	1242	1,65	2,12
1600A	8 x 80 x 1	642	1895	1755	1603	1434	1244	1,65	2,12
1600A	9 x 80 x 1	721	2001	1850	1695	1511	1317	1,65	2,12
1600A	10 x 80 x 1	800	2105	1945	1774	1585	1377	1,65	2,12
1600A	8 x 100 x 1	800	2147	1995	1815	1627	1404	1,6	2,2
1600A	9 x 100 x 1	901	2248	2091	1900	1703	1473	1,6	2,2
1600A	10 x 100 x 1	1002	2352	2174	1985	1774	1535	1,6	2,2
1600A	11 x 100 x 1	1101	2431	2249	2050	1834	1590	1,6	2,2
1600A	10 x 120 x 1	1200	2755	2553	2332	2071	1794	1,49	1,95

This table demonstrates the reference increase in temperature at the chosen current load for a given crosssection of a busbar. Possible increase in temperature inside the distribution board is not taken into account, so use the current coefficient for the calculation when wired in parallel.

Measurements



Articles

Flexible copper busbar, length 2m

Description	Order No.
Flexible copper busbar,insulated,1000 A, 4x100x1, length 2m	ISL01004--
Flexible copper busbar,insulated,1250 A, 5x100x1, length 2m	ISL01005--
Flexible copper busbar,insulated,1250 A, 6x100x1, length 2m	ISL01006--
Flexible copper busbar,insulated,1600 A, 8x100x1, length 2m	ISL01008--
Flexible copper busbar,insulated,1600 A, 9x100x1, length 2m	ISL01009--
Flexible copper busbar,insulated,1600 A, 10x100x1, length 2m	ISL01010--
Flexible copper busbar,insulated,1600 A, 11x100x1, length 2m	ISL01011--
Flexible copper busbar,insulated,1600 A, 10x120x1, length 2m	ISL01210--
Flexible copper busbar,insulated,250 A, 2x20x1, length 2m	ISL02002--
Flexible copper busbar,insulated,250 A, 3x20x1, length 2m	ISL02003--
Flexible copper busbar,insulated,400 A, 4x20x1, length 2m	ISL02004--
Flexible copper busbar,insulated,400 A, 5x20x1, length 2m	ISL02005--
Flexible copper busbar,insulated,400 A, 6x20x1, length 2m	ISL02006--
Flexible copper busbar,insulated,630 A, 9x20x1, length 2m	ISL02009--
Flexible copper busbar,insulated,630 A, 10x20x1, length 2m	ISL02010--
Flexible copper busbar,insulated,250 A, 2x24x1, length 2m	ISL02402--
Flexible copper busbar,insulated,400 A, 3x24x1, length 2m	ISL02403--
Flexible copper busbar,insulated,400 A, 4x24x1, length 2m	ISL02404--
Flexible copper busbar,insulated,500 A, 5x24x1, length 2m	ISL02405--
Flexible copper busbar,insulated,500 A, 6x24x1, length 2m	ISL02406--
Flexible copper busbar,insulated,630 A, 8x24x1, length 2m	ISL02408--
Flexible copper busbar,insulated,630 A, 9x24x1, length 2m	ISL02409--
Flexible copper busbar,insulated,800 A, 10x24x1, length 2m	ISL02410--
Flexible copper busbar,insulated,400 A, 2x32x1, length 2m	ISL03202--
Flexible copper busbar,insulated,400 A, 3x32x1, length 2m	ISL03203--
Flexible copper busbar,insulated,500 A, 4x32x1, length 2m	ISL03204--
Flexible copper busbar,insulated,630 A, 5x32x1, length 2m	ISL03205--
Flexible copper busbar,insulated,630 A, 6x32x1, length 2m	ISL03206--
Flexible copper busbar,insulated,800 A, 8x32x1, length 2m	ISL03208--
Flexible copper busbar,insulated,800A, 9x32x1, length 2m	ISL03209--
Flexible copper busbar,insulated,1000 A, 10x32x1, length 2m	ISL03210--
Flexible copper busbar,insulated,400 A, 2x40x1, length 2m	ISL04002--
Flexible copper busbar,insulated,500 A, 3x40x1, length 2m	ISL04003--
Flexible copper busbar,insulated,500 A, 4x40x1, length 2m	ISL04004--
Flexible copper busbar,insulated,630 A, 5x40x1, length 2m	ISL04005--
Flexible copper busbar,insulated,800 A, 6x40x1, length 2m	ISL04006--
Flexible copper busbar,insulated,1000 A, 8x40x1, length 2m	ISL04008--
Flexible copper busbar,insulated,1000 A, 9x40x1, length 2m	ISL04009--
Flexible copper busbar,insulated,1000 A, 10x40x1, length 2m	ISL04010--

Description	Order No.
Flexible copper busbar,insulated,500 A, 3x50x1, length 2m	ISL05003--
Flexible copper busbar,insulated,630 A, 4x50x1, length 2m	ISL05004--
Flexible copper busbar,insulated,800 A, 5x50x1, length 2m	ISL05005--
Flexible copper busbar,insulated,1000 A, 6x50x1, length 2m	ISL05006--
Flexible copper busbar,insulated,1000 A, 8x50x1, length 2m	ISL05008--
Flexible copper busbar,insulated,1250 A, 9x50x1, length 2m	ISL05009--
Flexible copper busbar,insulated,1250 A, 10x50x1, length 2m	ISL05010--
Flexible copper busbar,insulated,630 A, 3x63x1, length 2m	ISL06303--
Flexible copper busbar,insulated,800 A, 4x63x1, length 2m	ISL06304--
Flexible copper busbar,insulated,1000 A, 5x63x1, length 2m	ISL06305--
Flexible copper busbar,insulated,1000 A, 6x63x1, length 2m	ISL06306--
Flexible copper busbar,insulated,1250 A, 8x63x1, length 2m	ISL06308--
Flexible copper busbar,insulated,1250 A, 9x63x1, length 2m	ISL06309--
Flexible copper busbar,insulated,1600 A, 10x63x1, length 2m	ISL06310--
Flexible copper busbar,insulated,800 A, 3x80x1, length 2m	ISL08003--
Flexible copper busbar,insulated,1000 A, 4x80x1, length 2m	ISL08004--
Flexible copper busbar,insulated,1000 A, 5x80x1, length 2m	ISL08005--
Flexible copper busbar,insulated,1250 A, 6x80x1, length 2m	ISL08006--
Flexible copper busbar,insulated,1600 A, 8x80x1, length 2m	ISL08008--
Flexible copper busbar,insulated,1600 A, 9x80x1, length 2m	ISL08009--
Flexible copper busbar,insulated,1600 A, 10x80x1, length 2m	ISL08010--