

**MAXIMUM PERMISSIBLE CURRENT  
IN PERMANENT MODE**

**SILICOUL® ALU FLEX 1.1 KV • FT 10109a**

Ambient temperature (°C)	1.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	4 mm <sup>2</sup>	6 mm <sup>2</sup>	10 mm <sup>2</sup>	16 mm <sup>2</sup>	25 mm <sup>2</sup>	35 mm <sup>2</sup>	50 mm <sup>2</sup>	70 mm <sup>2</sup>	95 mm <sup>2</sup>	120 mm <sup>2</sup>	150 mm <sup>2</sup>	185 mm <sup>2</sup>	240 mm <sup>2</sup>	300 mm <sup>2</sup>	400 mm <sup>2</sup>
0	40	55	73	94	133	176	237	296	373	469	561	659	780	872	1042	1200	1425
10	39	53	71	91	128	170	229	286	361	453	542	637	755	843	1008	1161	1378
20	38	51	68	88	124	164	221	276	348	437	523	615	728	814	973	1120	1330
30	36	49	66	85	119	158	213	266	335	421	504	592	701	784	937	1079	1281
40	35	47	63	81	114	151	204	255	322	404	483	568	673	753	900	1036	1230
50	33	45	60	78	109	145	196	244	308	387	463	544	645	721	861	992	1178
60	32	43	58	74	104	138	187	233	294	369	441	519	615	688	822	947	1124
70	30	41	55	70	99	131	177	221	279	350	419	493	584	653	781	899	1068
80	29	39	52	67	94	124	167	209	263	331	396	466	552	618	739	851	1010
90	27	36	48	63	88	116	157	196	247	311	372	438	519	581	694	799	950
100	25	34	45	58	82	108	147	183	231	290	347	408	484	542	648	746	886
110	23	31	42	54	76	100	135	169	213	267	320	377	448	501	599	690	819
120	21	28	38	49	69	91	123	154	194	244	292	344	409	457	547	630	748
130	19	25	34	44	62	82	111	138	174	219	262	309	367	410	491	565	672
140	16	22	30	39	54	72	97	121	152	191	229	271	321	360	430	495	588
150	14	19	25	32	46	60	81	101	128	161	193	228	271	303	362	418	496
160	11	15	20	25	36	47	64	79	100	126	151	179	212	238	285	328	390
170	7	10	13	17	23	31	42	52	66	83	100	118	140	157	188	217	258

**SILICOUL® ALU FLEX 3.7 KV • FT 10110a**

0	42	56	75	95	133	176	236	294	371	464	551	650	771	864	1034	1187	1413
10	40	54	72	92	129	170	229	285	358	448	533	629	746	835	1000	1149	1367
20	39	52	70	89	124	164	221	275	346	433	515	607	720	806	965	1109	1319
30	37	50	67	86	120	158	212	264	333	417	496	585	694	777	930	1068	1271
40	36	48	64	82	115	152	204	254	320	400	476	562	667	746	893	1026	1221
50	34	46	62	79	110	145	195	243	306	383	456	538	638	715	855	983	1169
60	33	44	59	75	105	139	186	232	292	366	435	514	609	682	816	938	1116
70	31	42	56	71	100	132	177	220	278	347	414	488	579	648	776	892	1061
80	30	40	53	68	94	125	167	208	262	328	391	462	548	613	734	843	1003
90	28	37	50	64	89	117	157	196	247	309	368	434	515	577	690	793	943
100	26	35	47	59	83	109	147	183	230	288	344	405	481	538	644	740	880
110	24	32	43	55	77	101	136	169	213	266	318	375	444	498	595	685	814
120	22	30	39	50	70	92	124	154	194	243	290	342	406	455	544	625	744
130	20	27	35	45	63	83	111	138	174	218	261	307	365	408	489	562	668
140	17	23	31	39	55	73	97	121	153	191	228	270	320	358	428	493	586
150	15	20	26	33	46	61	82	102	128	161	193	227	270	302	361	416	494
160	12	15	21	26	37	48	64	80	101	127	152	179	212	238	284	327	389
170	8	10	14	17	24	32	43	53	67	84	100	118	140	157	188	216	257

- All values in the tables are expressed in Amperes (A).
- Calculations are based on methods issued from IEC 60287 standard.
- 1 single cable in free air without heat source in it surrounding environment.
- DC supply or AC supply (F ≤ 60 Hz).
- Maximum temperature of core: +180°C.

For this product, please contact:

**OMERIN division principale** ✓  
Zone Industrielle - F 63600 Ambert  
Tel. +33 (0)4 73 82 50 00 - Fax +33 (0)4 73 82 50 10  
omerin@omerin.com

The information provided in this document is indicative. Laying, wiring and electrical conditions and the environment of the cable can not be fully considered in our studies.

In no way OMERIN SAS shall be held responsible for any incidents in the case of inappropriate uses, particularly in the case of wiring conditions that do not respect the good practice and the standards in force.

For an optimum use of our cables, we recommend testing in real conditions. Our sales department is available for a possible provision of samples, and/or for the conditions of a complete study in our laboratories.