

**MAXIMUM PERMISSIBLE CURRENT
IN PERMANENT MODE**

SILICOUL® 1.1 KV • FT 10101a

Ambient temperature (°C)	1.5 mm ²	2.5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²	25 mm ²	35 mm ²	50 mm ²	70 mm ²	95 mm ²	120 mm ²	150 mm ²	185 mm ²	240 mm ²	300 mm ²	400 mm ²
0	51	69	92	118	168	224	298	369	464	583	697	814	932	1070	1273	1474	1773
10	49	66	89	114	163	216	288	357	449	563	674	788	901	1035	1231	1426	1715
20	47	64	86	110	157	209	278	344	433	543	650	760	870	999	1189	1376	1655
30	45	62	82	106	151	201	268	331	417	523	626	732	838	962	1145	1326	1594
40	44	59	79	102	145	193	257	318	400	502	601	703	805	924	1100	1273	1531
50	42	57	76	98	139	184	246	304	383	481	575	673	770	884	1053	1219	1465
60	40	54	72	93	132	176	234	290	365	458	549	642	735	844	1005	1164	1398
70	38	51	68	88	126	167	223	275	347	435	521	610	699	802	956	1106	1328
80	36	48	65	83	119	158	210	260	328	411	492	576	661	758	904	1046	1256
90	33	45	61	78	111	148	197	244	308	386	463	542	621	712	850	983	1180
100	31	42	57	73	104	138	184	228	287	360	431	505	579	665	793	917	1101
110	29	39	52	67	96	127	170	210	265	333	399	467	536	614	733	848	1018
120	26	36	48	62	87	116	155	192	242	303	364	426	489	561	670	775	929
130	24	32	43	55	78	104	139	172	217	272	326	382	439	504	602	696	834
140	21	28	37	48	68	91	121	150	190	238	285	335	385	441	527	610	731
150	17	23	31	41	58	77	102	127	160	200	240	282	324	372	445	514	616
160	14	18	25	32	45	60	80	99	125	157	188	221	255	292	350	404	483
170	9	12	16	21	30	39	53	65	83	103	124	146	168	193	231	267	319

SILICOUL® 3.7 KV • FT 10102a

Ambient temperature (°C)	1.5 mm ²	2.5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²	25 mm ²	35 mm ²	50 mm ²	70 mm ²	95 mm ²	120 mm ²	150 mm ²	185 mm ²	240 mm ²	300 mm ²	400 mm ²
0	52	70	93	119	169	223	297	367	461	578	686	804	922	1064	1268	1471	1753
10	50	68	90	116	164	216	287	355	446	559	663	778	892	1029	1227	1423	1696
20	48	66	87	112	158	209	277	342	430	539	640	751	861	993	1184	1374	1637
30	47	63	84	107	152	201	267	329	414	519	617	723	829	957	1141	1323	1577
40	45	61	81	103	146	193	256	316	398	499	593	695	797	919	1096	1271	1515
50	43	58	77	99	140	185	245	303	381	477	567	665	763	880	1050	1217	1451
60	41	56	74	94	133	176	234	289	364	456	542	635	729	840	1002	1162	1384
70	39	53	70	90	127	168	222	275	346	433	515	604	693	798	952	1104	1316
80	37	50	66	85	120	158	210	260	327	409	487	571	655	755	901	1044	1244
90	35	47	62	80	113	149	198	244	307	385	458	537	616	710	847	982	1170
100	32	44	58	75	105	139	184	228	287	359	427	501	575	662	791	916	1092
110	30	41	54	69	97	128	170	210	265	332	395	463	532	612	731	847	1010
120	27	37	49	63	89	117	156	192	242	303	361	423	486	559	668	774	922
130	25	33	44	57	80	105	140	172	217	272	324	380	437	502	600	695	828
140	22	29	39	50	70	92	122	151	190	238	284	334	383	440	526	609	726
150	18	25	33	42	59	78	103	127	160	200	240	281	323	371	444	514	613
160	14	19	26	33	46	61	81	100	126	157	189	221	254	292	349	404	482
170	10	13	17	22	31	40	53	66	83	104	125	147	169	193	231	267	319

- 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 ($F \leq 60$ 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.