

**MAXIMUM PERMISSIBLE CURRENT  
IN PERMANENT MODE**

**SILICOU<sup>®</sup> SCR 1.1 KV • FT 10113a**

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	54	73	96	123	173	228	301	369	463	575	683	800	910	1039	1232	1419	1703
10	52	70	93	119	167	221	291	357	449	557	661	774	881	1006	1193	1374	1648
20	50	68	90	115	162	213	281	345	433	538	639	748	851	971	1153	1328	1592
30	48	65	87	111	156	205	271	333	417	518	615	721	820	936	1111	1280	1535
40	47	63	83	106	150	197	260	320	401	498	592	693	789	900	1069	1231	1476
50	45	60	80	102	143	189	249	306	384	477	567	664	756	863	1025	1180	1415
60	43	57	76	97	137	180	238	292	367	456	542	634	722	824	979	1127	1352
70	41	55	73	92	130	172	226	278	349	434	515	603	687	784	932	1073	1286
80	38	52	69	87	123	162	214	263	330	410	488	571	651	743	883	1016	1218
90	36	49	65	82	116	153	201	247	311	386	459	537	613	699	831	957	1147
100	34	45	60	77	108	142	188	231	290	361	429	502	573	654	777	895	1072
110	31	42	56	71	100	132	174	214	269	334	397	465	530	605	720	829	992
120	28	38	51	65	91	120	159	195	246	305	363	425	485	554	659	759	908
130	26	35	46	58	82	108	143	176	221	275	327	382	437	498	593	683	818
140	22	30	40	51	72	95	125	154	194	241	287	336	384	438	522	601	719
150	19	26	34	43	61	80	106	130	164	204	243	284	325	371	442	509	608
160	15	20	27	34	48	63	83	103	129	161	192	224	257	293	349	402	480
170	10	13	18	23	32	42	55	68	86	107	127	149	171	195	233	268	320

**SILICOU<sup>®</sup> SCR 3.7 KV • FT 10114a**

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	54	72	96	122	172	226	298	366	457	570	675	787	898	1030	1228	1417	1685
10	52	70	93	118	166	219	288	354	443	552	654	762	870	997	1189	1372	1631
20	50	68	90	114	161	211	279	342	428	533	632	736	840	964	1149	1325	1576
30	49	65	87	110	155	204	268	330	412	514	609	710	810	929	1108	1278	1519
40	47	63	83	106	149	196	258	317	396	494	585	683	779	893	1065	1229	1461
50	45	60	80	102	143	188	247	304	380	474	561	655	747	856	1021	1178	1401
60	43	58	76	97	136	179	236	290	363	453	536	625	714	818	976	1126	1339
70	41	55	73	92	130	170	225	276	345	431	510	595	680	779	929	1071	1274
80	39	52	69	88	123	161	213	261	327	408	483	564	644	738	880	1015	1207
90	36	49	65	83	116	152	200	246	308	384	455	531	606	695	829	956	1136
100	34	46	61	77	108	142	187	230	288	359	425	496	567	649	775	893	1063
110	32	42	56	72	100	131	173	213	267	332	394	460	525	602	718	828	984
120	29	39	51	65	92	120	159	195	244	304	361	421	481	551	657	758	901
130	26	35	46	59	83	108	143	175	220	274	325	379	433	496	592	683	812
140	23	31	41	52	73	95	125	154	193	240	286	333	381	436	521	600	714
150	19	26	34	44	61	81	106	130	163	203	242	282	323	369	441	508	605
160	15	21	27	35	49	64	84	103	129	161	191	223	256	292	349	402	478
170	10	14	18	23	32	42	56	68	86	107	127	149	171	195	233	268	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 ≤ 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.