KERPEN
Competence in Cable Technology

Table 5: Current Ratings (AC) - U_0 / U 0.6 / 1 kV
Copper conductors laid direct in ground

Nominal cross-sectional area	 1)			 2)		
nom. (mm²)	PVC (A)	XLPE (A)	PVC (A)	XLPE (A)	PVC (A)	XLPE (A)
1.5	41	48	27	31	30	33
2.5	55	63	36	40	39	42
4	71	82	46	52	50	54
6	90	102	58	64	62	67
10	124	136	78	86	83	89
16	160	176	101	111	107	115
25	208	229	132	145	138	148
35	250	275	159	174	164	177
50	296	326	188	206	195	209
70	365	400	232	254	238	256
95	438	480	280	305	286	307
120	501	548	318	348	325	349
150	563	616	359	392	365	393
185	639	699	406	444	413	445
240	746	815	473	517	479	516
300	845	924	535	585	539	581
400	975	1065	613	671	614	662
500	1125	1228	684	756	693	749
630	1304	1421	-----	-----	777	843
800	1507	1638	-----	-----	859	935
1000	1715	1870	-----	-----	936	1022

1) Current in DC circuits with return conductor far away.

2) For auxiliary and multicore cables with 4-cores fully loaded.

Basic assumption and conditions of installation:

Thermal resistivity of soil:	1.0 Km/W
Standard ground temperature:	20 °C
Loading factor:	0.7
Depth of burial:	0.7 – 1.2 m
No. of cable systems:	1
(VDE 0298)	