

Current carrying capacity of KBE Solar DB

cross section	Max. Conductor resistance at 20 °C	Conductor diameter max.	Current carrying capacity according to method of installation (ambient temperature 60 °C)			KBE item number
			Single cable in air	single cable on a surface)	Two loaded cables touching on a surface	
[mm ²]	[mΩ/m]	[mm]	[A]	[A]	[A]	
2,50	8,21	2,40	41	39	33	730250015040QU
4,00	5,09	3,00	55	52	44	730400015040QU
6,00	3,39	3,90	70	67	57	730600015040QU
10,00	1,95	5,10	98	93	79	731000015040QU
16,00	1,24	6,30	132	125	107	731600015040QU
25,00	0,795	7,80	176	167	142	732500015040QU
35,00	0,565	9,20	218	207	176	733500015040QU
50,00	0,393	11,00	276	262	221	735000015040QU
70,00	0,277	13,10	347	330	278	737000015040QU
95,00	0,210	15,10	416	395	333	739500015040QU

Current rating conversion factors for different ambient temperatures as 60 °C

Ambient temperature [°C]	Conversion factor
Up to 60	1,00
70	0,92
80	0,84
90	0,75

For installation in groups the reduction factors for current rating according to IEC 60364-5-52 shall apply.

power in wire and cables