

Long-term current-carrying capacity of control and power supply cables with PVC insulation

Cross section [mm ²]	Group 1 current-carrying capacity [A]	Group 2 current-carrying capacity [A]	Group 3 current-carrying capacity [A]
0,14	2	2	3,5
0,25	4	4,5	6
0,34	6	6	9
0,5	9	9	12
0,75	12	12	15
1	15	15	19
1,5	18	18	24
2,5	26	26	32
4	34	34	42
6	44	44	54
10	61	61	73
16	82	82	98
25	108	108	129
35	135	135	158
50	168	168	198
70	207	207	245
95	250	250	292
120	292	292	344
150	335	335	391
185	382	382	448
240	–	453	528
300	–	523	608

Group 1: Single-conductor cables and wires with PVC insulation placed in cable ducts (BiT 1000® single-conductor).

Group 2: Multicore cables with sheaths, smooth cables, cables in metal armours or with screens, placed in open or ventilated cable ducts (BiT 500®, BiT 500°CY, BiT®1000®).

Group 3: Single-conductor cables installed with a space equal to at least the outer diameter of the cable.

Correction factors for an ambient temperature above 30 °C,
permitted conductor temperature 70 °C

Ambient temperature	Correction factor
31 up to 35	0,94
36 up to 40	0,87
41 up to 45	0,79
46 up to 50	0,71
51 up to 55	0,61
56 up to 60	0,50
61 up to 65	0,35