



Current ratings table BEC 110

Current carrying capabilities and associated volts drops for twin and multicore cables insulated with impregnated paper (BS6480), Lead sheathed or aluminium sheathed, armoured or non-armoured with or without serving (Copper Conductors)

Conductor operating temperature: 80°C

Nominal cross sectional area of conductor mm <sup>2</sup>	Clipped direct					Defined conditions				
	One twin cable single phase a.c or d.c			One three or four core cable three phase		One twin cable, single phase a.c or d.c			One three or four core cable three phase	
	Current carrying capacity A	Volt drop per amp per metre		Current carrying capacity A	Volt drop per amp per metre mV	Current carrying capacity A	Volt drop per amp per metre		Current carrying capacity A	Volt drop per amp per metre mV
		a.c mV	d.c mV				a.c mV	d.c mV		
50	165	0.95	0.95	145	0.82	200	0.95	0.95	170	0.82
70	205	0.66	0.66	180	0.58	250	0.66	0.66	215	0.58
95	255	0.49	0.47	225	0.43	305	0.49	0.47	265	0.43
120	295	0.40	0.36	260	0.35	355	0.40	0.36	305	0.35
150	335	0.33	0.30	300	0.28	405	0.33	0.30	350	0.28
185	390	0.28	0.24	345	0.24	465	0.28	0.24	405	0.24
240	460	0.24	0.19	410	0.20	555	0.24	0.19	480	0.20
300	525	0.21	0.15	470	0.18	635	0.21	0.15	550	0.18
400	610	0.20	0.12	545	0.17	735	0.20	0.12	640	0.17

Correction factors for ambient temperature

Ambient temperature	25°C	35°C	40°C	45°C	50°C	55°C	60°C	65°C	70°C	75°C
Correction factor:	1.05	0.95	0.89	0.82	0.75	0.68	0.61	0.53	0.43	0.30