

**TABLE BEC 110. Current-carrying capacities and associated volt drops for twin & 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	'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	Volt drop per ampere per metre		Current carrying capacity	Volt drop per ampere per metre	Current carrying capacity	Volt drop per ampere per metre		Current carrying capacity	Volt drop per ampere per metre	
		a.c.	d.c.				a.c.	d.c.			
mm <sup>2</sup>	A	mV	mV	A	mV	A	mV	mV	A	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

[battindustrial.sales@batt.co.uk](mailto:battindustrial.sales@batt.co.uk)