

TABLE BEC 114 Armour resistance & Conductor short circuit ratings for Power & Control cables 600/1000V to BS6883, IEC60331 & IEC60332

Nominal armour resistance (ohms/Km)										
Nominal area of conductor mm ²	Two Core	Three Core	Four Core	Seven Core	Twelve Core	Two Core	Three Core	Four Core	Seven Core	Twelve Core
	IEC60331	IEC60331	IEC60331	IEC60331	IEC60331	IEC60332	IEC60332	IEC60332	IEC60332	IEC60332
1.0	44.08	47.52	28.75	34.37	20.00	39.96	24.60	26.90	31.48	18.66
1.5	47.52	51.25	30.26	36.11	21.39	24.66	26.68	28.86	34.14	19.70
2.5	28.75	30.24	33.90	39.76	13.36	27.04	28.94	31.26	16.58	12.50
4.0	34.58	35.95	17.48	21.33	15.91	32.13	34.39	16.62	19.92	15.31
6.0	16.52	17.45	19.30	-	-	35.07	16.63	18.72	-	-
10	19.03	20.05	22.68	-	-	17.82	19.11	12.22	-	-
16	21.54	12.77	14.19	-	-	12.12	12.54	13.54	-	-
25	14.74	15.76	9.37	-	-	14.03	15.34	9.12	-	-
35	15.84	9.24	10.13	-	-	15.45	8.79	9.86	-	-
50	9.84	10.30	5.10	-	-	9.35	10.05	4.95	-	-
70	5.02	5.37	5.77	-	-	4.88	5.09	5.67	-	-
95	5.65	6.02	4.30	-	-	5.45	5.92	3.72	-	-
120	6.09	6.54	4.53	-	-	6.00	3.72	4.04	-	-
150	4.32	4.50	4.79	-	-	3.75	4.03	4.59	-	-
185	4.58	4.78	4.09	-	-	4.40	4.59	5.04	-	-
240	4.92	4.12	4.44	-	-	4.72	5.09	5.88	-	-
300	4.21	4.43	4.79	-	-	5.20	5.87	6.38	-	-

Short Circuit Ratings (kA)						
Nominal area of conductor mm ²	Fault Current at 250°C			Fault Current at 160°C		
	Duration 1.0 Sec	Duration 0.5 Sec	Duration 0.2 Sec	Duration 1.0 Sec	Duration 0.5 Sec	Duration 0.2 Sec
	kA	kA	kA	kA	kA	kA
1.0	0.15	0.22	0.34	0.11	0.15	0.24
1.5	0.22	0.31	0.49	0.15	0.22	0.35
2.5	0.35	0.50	0.79	0.25	0.35	0.55
4	0.57	0.80	1.3	0.40	0.56	0.89
6	0.85	1.2	1.9	0.59	0.84	1.3
10	1.4	2.0	3.2	1.0	1.4	2.2
16	2.3	3.2	5.1	1.6	2.2	3.6
25	3.9	5.5	8.7	2.7	3.8	6.1
35	5.0	7.1	11	3.5	4.9	7.8
50	6.8	9.6	15	4.7	6.7	11
70	9.8	14	22	6.8	9.7	15
95	13	19	29	9.2	13	21
120	17	24	38	12	17	27
150	21	30	47	15	21	33
185	26	37	59	18	26	41
240	35	49	-	24	34	54
300	44	62	-	30	43	68

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