

CURRENT CARRYING CAPACITY

PVC INSULATED PVC SHEATHED
MULTI-CORE ARMoured CABLE

VOLTAGE 600/1000 V

AMBIENT TEMPERATURE 30°C

GROUND TEMPERATURE 20°C

CONDUCTOR OPERATING TEMPERATURE 70°C

CURRENT CARRYING CAPACITY

Size of Conductor	On Perforated Cable Tray		Direct In Ground or In Duct In Ground	
	1 two-core cable 1 phase ac or dc	1 three or four-core cable 3 phase ac	1 two core cable 1 phase ac or dc	1 three or four-core cable 3 phase ac
(mm ²)	(amp)	(amp)	(amp)	(amp)
1.5	22	19	22	18
2.5	31	26	29	24
4	41	35	37	30
6	53	45	46	38
10	72	62	60	50
16	97	83	78	64
25	128	110	99	82
35	157	135	119	98
50	190	163	140	116
70	241	207	173	143
95	291	251	204	169
120	336	290	231	192
150	386	332	261	217
185	439	378	292	243
240	516	445	336	280
300	592	510	379	316
400	683	590		

VOLTAGE DROP

VOLTAGE DROP (PER AMP PER METER)

Conductor cross-section area	Two-core cable,dc	Two-core cable, single-phase a.c	Three- or four-core, three-phase a.c
1	2	3	4
(mm ²)	(mv/A/m)	(mv/A/m)	(mv/A/m)
1.5	29	29	25
2.5	18	18	15
4	11	11	9.5
6	7.3	7.3	6.4
10	4.4	4.4	3.8
16	2.8	2.8	2.4
25	1.75	1.75	1.50
35	1.25	1.25	1.10
50	0.93	0.94	0.81
70	0.63	0.65	0.57
95	0.46	0.50	0.43
120	0.36	0.41	0.35
150	0.29	0.34	0.29
185	0.23	0.29	0.25
240	0.180	0.24	0.21
300	0.145	0.21	0.185
400	0.105	0.185	0.160

Note : Correction factors for ambient temperature and group installation, please refer Page B-1