

CURRENT CARRYING CAPACITY

PVC INSULATED PVC SHEATHED
MULTI-CORE CABLE

VOLTAGE 300/500V OR 600/1000 V
AMBIENT TEMPERATURE 30°C
CONDUCTOR OPERATING TEMPERATURE 70°C

CURRENT CARRYING CAPACITY

Size of Conductor	Enclosed In Conduit or In Trunking		On Perforated Cable Tray	
	two-core cable 1 phase ac or dc	three or four-core cable 3 phase ac	two core cable 1 phase ac or dc	three or four-core cable 3 phase ac
(mm ²)	(amp)	(amp)	(amp)	(amp)
1.0	13	11.5	17	14.5
1.5	16.5	15	22	18.5
2.5	23	20	30	25
4	30	27	40	34
6	38	34	51	43
10	52	46	70	60
16	69	62	94	80
25	90	80	119	101
35	111	99	148	126
50	133	118	180	153
70	168	149	232	196
95	201	179	282	238
120	232	206	328	276
150	258	225	379	319
185	294	255	434	364
240	344	297	514	430
300	394	339	593	497
400	470	402	715	597

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
(mm ²)	(mv/A/m)	(mv/A/m)	(mv/A/m)
1.0	44	44	38
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