

## CURRENT CARRYING CAPACITY

XLPE INSULATED PVC SHEATHED  
MULTI-CORE CABLE

VOLTAGE 600/1000 V  
AMBIENT TEMPERATURE 30°C  
CONDUCTOR OPERATING TEMPERATURE 90°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 <sup>2</sup> )	(amp)	(amp)	(amp)	(amp)
1	17	15	21	18
1.5	22	19.5	26	23
2.5	30	26	36	32
4	40	35	49	42
6	51	44	63	54
10	69	60	86	75
16	91	80	115	100
25	119	105	149	127
35	146	128	185	158
50	175	154	225	192
70	221	194	289	246
95	265	233	352	298
120	305	268	410	346
150	334	300	473	399
185	384	340	542	456
240	459	398	641	538
300	532	455	741	621
400	625	536	865	741

## 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 <sup>2</sup> )	( mv/A/m )	( mv/A/m )	( mv/A/m )
1.0	46	46	40
1.5	31	31	27
2.5	19	19	16
4	12	12	10
6	7.9	7.9	6.8
10	4.7	4.7	4.0
16	2.9	2.9	2.5
25	1.85	1.90	1.65
35	1.35	1.35	1.15
50	0.98	1.00	0.87
70	0.67	0.69	0.60
95	0.49	0.52	0.45
120	0.39	0.42	0.37
150	0.31	0.35	0.30
185	0.25	0.29	0.26
240	0.195	0.24	0.21
300	0.155	0.21	0.185
400	0.120	0.190	0.165

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