

CURRENT CARRYING CAPACITY

XLPE INSULATED PVC SHEATHED
SINGLE-CORE ARMoured CABLE

VOLTAGE 600/1000 V

AMBIENT TEMPERATURE 30°C

CONDUCTOR OPERATING TEMPERATURE 90°C

CURRENT CARRYING CAPACITY

Size of Conductor	On Perforated Cable Tray	On Perforated Cable Tray	
	two cables 1-phase ac or dc flat and touching	Three or four cables three phase ac touching	
		flat	trefoil
(mm ²)	(amp)	(amp)	(amp)
50	253	232	222
70	322	293	285
95	389	352	346
120	449	405	402
150	516	462	463
185	587	524	529
240	689	612	625
300	792	700	720
400	899	767	815
500	1016	851	918
630	1146	935	1027
800	1246	987	1119
1000	1345	1055	1214

VOLTAGE DROP

VOLTAGE DROP (PER AMP PER METER)

Size of Conductor	On Perforated Cable Tray		On Perforated Cable Tray	
	two cables ,dc	two cables, 1 phase ac, touching	three or four cables, three-phase, ac, touching	
			flat	trefoil
(mm ²)	(mv/A/m)	(mv/A/m)	(mv/A/m)	(mv/A/m)
50	0.98	1.00	0.88	0.87
70	0.67	0.71	0.65	0.62
95	0.49	0.55	0.52	0.47
120	0.39	0.45	0.44	0.39
150	0.31	0.38	0.39	0.33
185	0.25	0.33	0.34	0.28
240	0.195	0.28	0.30	0.24
300	0.155	0.25	0.28	0.21
400	0.115	0.22	0.27	0.195
500	0.093	0.21	0.25	0.180
630	0.073	0.195	0.24	0.170
800	0.056	0.190	0.23	0.165
1000	0.045	0.180	0.21	0.155

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