

CURRENT CARRYING CAPACITY

SINGLE CORE XLPE INSULATED PVC SHEATHED 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		
	2 cables 1-phase ac or dc	3 or 4 cables 3-phase ac	2 cables 1-phase ac or dc flat and touching	3 or 4 cables 3-phase ac touching	
				flat	trefoil
(mm ²)	(amp)	(amp)	(amp)	(amp)	(amp)
1.0	17	15			
1.5	23	20			
2.5	31	28			
4	42	37			
6	54	48			
10	75	66			
16	100	88			
25	133	117	161	141	135
35	164	144	200	176	169
50	198	175	242	216	207
70	253	222	310	279	268
95	306	269	377	342	328
120	354	312	437	400	383
150	393	342	504	464	444
185	449	384	575	533	510
240	528	450	679	634	607
300	603	514	783	736	703
400	683	584	940	868	823
500	783	666	1083	998	946
630	900	764	1254	1151	1088
800			1358	1275	1214
1000			1520	1436	1349

VOLTAGE DROP

VOLTAGE DROP (PER AMP PER METER)

Size of Conductor	2 cables dc	2 cables 1-phase ac		3 or 4 cables 3-phase ac		
		Enclosed in conduit	on cable tray, touching	Enclosed in conduit	on cable tray, flat and touching	on cable tray trefoil
(mm ²)	(mv/A/m)	(mv/A/m)	(mv/A/m)	(mv/A/m)	(mv/A/m)	(mv/A/m)
1.0	46	46	46	40	40	40
1.5	31	31	31	27	27	27
2.5	19	19	19	16	16	16
4	12	12	12	10	10	10
6	7.9	7.9	7.9	6.8	6.8	6.8
10	4.7	4.7	4.7	4.0	4.0	4.0
16	2.9	2.9	2.9	2.5	2.5	2.5
25	1.85	1.90	1.85	1.65	1.60	1.60
35	1.35	1.35	1.35	1.15	1.15	1.15
50	0.99	1.05	1.00	0.90	0.87	0.87
70	0.68	0.75	0.71	0.65	0.62	0.61
95	0.49	0.58	0.52	0.50	0.46	0.45
120	0.39	0.48	0.43	0.42	0.38	0.37
150	0.32	0.43	0.36	0.37	0.32	0.31
185	0.25	0.37	0.30	0.32	0.28	0.26
240	0.190	0.33	0.25	0.29	0.24	0.22
300	0.155	0.31	0.22	0.27	0.21	0.195
400	0.120	0.29	0.20	0.25	0.195	0.175
500	0.093	0.28	0.185	0.24	0.180	0.160
630	0.072	0.27	0.175	0.23	0.170	0.150
800	0.056		0.170		0.165	0.145
1000	0.045		0.165		0.165	0.140

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