



S.M.C

Three/Four Core Aluminum, PVC Insulated Armored /Unarmored Cables Current Rating & Voltage drop for cables & wires Up to and Including 600/1000V

Nominal Area of Conductor	In Air				In Ground		In Duct		Voltage drops	
	Unarmored		Armored		Armored		Armored			
	at 70°C	at 85°C	at 70°C	at 85°C	at 70°C	at 85°C	at 70°C	at 85°C	at 70°C	at 85°C
Sqmm	A				A		A		V/A/Km	V/A/Km
16	59	67	62	71	74	82	60	67	4.00	4.18
2.5	78	89	80	92	95	106	77	86	2.50	2.62
35	95	108	98	112	114	126	93	102	1.81	1.91
50	116	133	120	137	136	151	111	123	1.34	1.41
70	148	169	151	173	168	187	137	152	0.93	0.98
95	183	209	188	215	202	225	165	184	0.68	0.71
120	211	242	217	248	231	257	189	211	0.54	0.57
150	244	279	248	283	259	288	212	236	0.45	0.47
185	280	320	287	328	294	327	242	270	0.37	0.38
240	335	383	343	392	343	381	283	315	0.29	0.31
300	386	440	395	450	388	430	321	355	0.25	0.26
400	431	493	431	493	420	467	340	377	0.21	0.22

Installation conditions for above Rating:

Maximum Conductor Temp. for PVC Type 5 Insulation 85°C

Maximum Conductor Temp. for PVC TI1/Type A Insulation 70°C

Ambient Air Temperature 30°C

Ground Temperature 20°C

Depth of Laying 0.5m

Thermal resistivity of soil 1.2 K.m/w