



# S.M.C

## Three /Four Core Copper, 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
1.5	20	23	20	23	26	30	21	24	26.3	26.3
2.5	28	33	27	32	33	38	27	31	16.1	16.1
4	35	41	35	41	45	51	36	41	10.0	10.0
6	45	53	45	53	56	64	45	52	6.7	6.7
1	59	69	62	73	74	84	61	69	4.0	4.0
1	78	90	81	93	96	107	79	88	2.4	2.5
2	104	119	109	125	126	140	102	113	1.51	1.59
3	127	145	133	152	151	168	123	137	1.10	1.15
5	155	178	161	184	179	199	145	162	0.82	0.85
7	197	225	204	233	221	246	181	202	0.57	0.60
9	244	280	252	289	265	295	217	242	0.42	0.44
120	283	324	291	333	302	336	248	275	0.34	0.36
150	323	368	333	379	338	374	278	307	0.29	0.30
185	374	430	382	439	382	427	315	353	0.25	0.25
240	445	510	451	517	440	490	364	405	0.21	0.21
300	511	586	512	587	493	550	407	455	0.18	0.19
400	592	680	588	675	552	616	466	522	0.16	0.17

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