



D1 = Diameter over insulation d = Diameter of armour wire D2 = Diameter over outer sheath

Electrical and physical properties of single core stranded copper conductors, PVC Insulated, PVC bedded, AWA PVC sheathed 600/1000V cables manufactured to SANS 1507-3.

Technical Data

Rated Area (mm ²)	Approximate Diameters			Approx. Mass (kg/km)	Impedance (Ω/km)	Cables in Trefoil Formation			
	D1	d	D2			Current Rating			Voltage Drop per Amp per metre (mV)
						Ground (A)	Ducts (A)	Air (A)	
25	8,35	1,25	15,45	563	0,879	125	112	121	1,52
35	9,40	1,25	16,50	700	0,639	156	140	147	1,11
50	10,95	1,25	18,05	846	0,479	183	165	177	0,83
70	12,59	1,25	19,89	1128	0,339	223	200	221	0,59
95	14,74	1,25	22,04	1504	0,257	266	238	273	0,45
120	16,16	1,60	25,16	1784	0,213	301	269	314	0,37
150	17,99	1,60	26,99	2102	0,182	336	299	357	0,32
185	20,10	1,60	29,30	2547	0,157	370	329	401	0,27
240	23,11	1,60	32,31	3114	0,134	410	363	481	0,23
300	26,25	2,0	37,05	4124	0,123	476	420	546	0,21
400	29,50	2,0	41,50	5133	0,113	529	465	622	0,19
500	32,51	2,0	44,51	6203	0,106	581	509	695	0,18
630	38,75	2,5	51,75	8218	0,099	623	541	779	0,17

PVC Current Ratings are Based on the following Environmental Parameters

Maximum Sustained Conductor Temperature	Ground Temperature	Ambient Air Temperature	Ground Thermal Resistivity	Depth of Laying to top of Cable
70°C	25°C	30°C	1,2 K.m/W	500mm