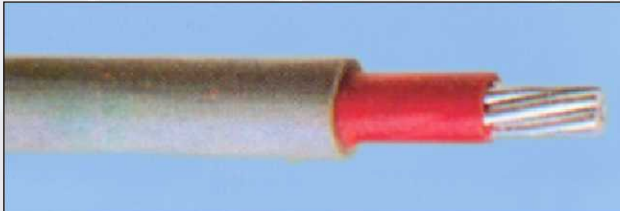




-the nation's live wire-

Single-Core, Aluminium Conductor, PVC Insulated,

PVC-SHEATHED 600/1000V CABLE (AL-VV)



Specification: NEPA requirement
Construction: hard-drawn aluminium solid or stranded conductor with PVC sheath
Colour of Insulation: red
Colour of Sheath: grey
Application: overhead power distribution

Conductor		Radial thickness of insulation mm	Radial thickness of sheath mm	Overall diameter mm	Calculated DC Resistance per km at 20°C ohm	Approximate mass per km kg	Standard unit length m
Nominal cross sectional area mm ²	Number and nominal diameter of wires						
10	7/1.35	1.10	0.95	8.15	2.96	2.96	100
16	7/1.7	1.10	1.0	9.30	1.87	118	100
25	7/2.14	1.25	1.0	10.92	1.18	167	100
35	10/1.53	1.40	1.0	12.45	0.86	212	100
50	19.1.78	1.40	1.4	14.5	0.63	298	100



CURRENT - CARRYING CAPACITIES AND ASSOCIATED VOLTAGE DROPS FOR PVC INSULATED ALUMINIUM CABLES (AL-OW AND AL-VV) BS. 6346

CABLE SIZE mm ²	INSTALLATION METHOD//TYPE OF SUPPLY				INSTALLATION METHOD//TYPE OF SUPPLY			
	ENCLOSED IN CONDUIT, TRUNKING OR UNDERGROUND DUCT				CLIPPED DIRECT TO A NON METALLIC SURFACE BUNCHED OR SUSPENDED			
	2 CABLES. SINGLE PHASE AC or DC		3 or 4 CABLES THREE PHASE AC		2 CABLES. SINGLE PHASE AC or DC		3 or 4 CABLES THREE PHASE AC	
	CURRENT RATING A	VOLTAGE DROP PER amp/metre mv	CURRENT RATING A	VOLTAGE DROP PER amp/metre mv	CURRENT RATING A	VOLTAGE DROP PER amp/metre mv	CURRENT RATING A	VOLTAGE DROP PER amp/metre mv
16	60	4.5 4.5	52	3.9	72	4.5 4.5	65	3.9
25	78	2.9 2.9	67	2.5	94	2.8 2.8	85	2.5
35	96	2.1 2.0	1.8	1.8	115	2.1 2.0	105	1.8
50	120	1.6 1.5	1.4	1.4	143	1.5 1.5	123	1.3
70	150	1.2 1.0	1.0	1.0	181	1.1 1.0	156	0.93

Conductor Operating Temperature: 70°C
 Assumed Ambient Temperature: 35°C
 Where the ambient temperature exceeds the value stated, the appropriate correction factor must be applied.