



APPLICATION

Aerial service cable to domestic and small to medium size commercial and industrial installations. Extra UV stability due to increased carbon black sheath.

STANDARD

AS/NZS 5000.1
(For metric sizes only)

VOLTAGE

600/1000V

CONDUCTOR INSULATION

Hard Drawn Copper
PVC, V-90
Black

MAX. OPERATING TEMP.

75°C

Item Number	Conductor		CABLE					Minimum Installed Bending Radius (b) mm
	Nominal Area mm ²	Number & Diameter of Wires (No./mm)	Minimum Overall Diameter		Maximum Overall Diameter		Approx Mass Per 100m kg	
			Major Axis mm	Minor Axis mm	Major Axis mm	Minor Axis mm		
DC811	6	7/1.04	10.7	5.1	11.8	5.4	14.7	30
DC822	10	7/1.35	12.6	6.0	13.6	6.3	23.2	40
DC833	16	7/1.70	14.7	7.1	15.8	7.4	35.6	40

(b) Bent in the direction of the minor axis.

CONDUCTOR		ELECTRICAL CHARACTERISTICS					
Nominal Area mm ²	CURRENT RATING 2m/s wind A	Maximum DC Resistance @ 20°C Ω/km	Maximum AC Resistance @ 75°C Ω/km	Maximum AC Resistance @ 90°C Ω/km	Equivalent Star Reactance Ω/km	3 Phase Voltage Drop (75°C) mV/Am	3 Phase Voltage Drop (90°C) mV/Am
6	59	3.17	3.75	3.93	0.369	6.49	6.80
10	80	1.88	2.23	2.33	0.352	3.86	4.05
16	105	1.18	1.40	1.47	0.338	2.43	2.55

- (a) Based on an ambient air temperature of 40°C, a maximum conductor temperature of 75°C and exposure to direct sunlight having an intensity of 1000W/m².

CONDUCTOR		NOMINAL INSULATION THICKNESS mm
Nominal Area mm ²	Nominal Diameter mm	
6	3.12	1.0
10	4.05	1.0
16	5.10	1.0

DOMINION WIRE & CABLES LTD.

QUALITY CABLE MANUFACTURES, DISTRIBUTORS AND EXPORTERS

LOT 3, KINGS ROAD, YALALEVU, BA. P.O. BOX 1562, BA, FIJI.

PHONE: (679)6675244 FAX: (679)6670023,

E-Mail: sales@dominioncables.com

web: www.dominioncables.com

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