

TECHNICAL DATA SHEET HENGTONG CABLE AUSTRALIA

0.6/1kV PWC

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1. Design guidelines.

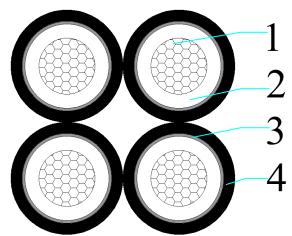
AS/NZS 5000.1	Electric cables-Polymeric insulated Part 1: For working voltages up to and including		
	0.6/1kV(1.2)kV		
AS/NZS 1125	Conductors in insulated electric cables and flexible cords		
AS/NZS 3808	Insulating and sheathing materials for electric cables		

2. Application.

Normal use operating temperature	90°C
Max. conductor temperature during short circuit(5s)	250°C
Lowest recommended temperature during installation	0°C

3. Construction.

HCA - 240mm² x 4*1 core Al(WBY)/XLPE/NY/MDPE(Quadraplex) - HCA504979PWC



1	Conductor	Class 2, circular compacted Aluminium conductor (non-conductive water-blocking yarn) A layer of binder tape maybe applied over the conductor
2	Insulation	X-90
3	Insect protection	Nylon 12 Blue
4	Outer sheath	MDPE Black

4. Core identification and mark as listed below, or as purchase order.

Identification of core: Red, White, Blue, Black (color tape)

Marking on cable: by printing in one line on the surface of outer sheath(one phase)

HENGTONG CABLE AUSTRALIA "YEAR" ELECTRIC CABLE 0.6/1kV CHINA

240mm² x 4 x 1 core AI(WBY) XLPE NY MDPE Quadraplex XXXXm

Note: Meter mark indicates the length of each core, not completed cable.



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5. Construction parameters.

Description	Unit	Values
Active Conductor		
Material	-	Aluminium
Nominal cross-sectional area	mm²	240
Conductor shape	1	Circular Compacted
Approx. diameter of active conductor	mm	18.4
Active Insulation		
Material	-	X-90
Nominal thickness/Min. thickness at any point	mm	1.7/1.43
Approx. diameter over insulation	mm	22.0
Insect protection		
Material	-	Nylon 12
Min. thickness at any point	mm	0.50
Approx. diameter over Insect protection	mm	23.6
Outer sheath		
Material	-	MDPE
Nominal thickness/Min. thickness at any point	mm	1.7/1.35
Approx. diameter of outer sheath	mm	27.0
Laying up		
Direction of lay	-	Right
Approx. diameter of laid up core	mm	65.3
Max. diameter of cable	mm	67.3
Approx. mass of cable	kg/km	3,990
Electrical data		
Max. D.C. resistance of active conductor at 20 $^{\circ}\mathrm{C}$	Ω/km	0.125
Max. A.C. resistance of conductor at $90^{\circ}\mathrm{C}$	Ω/km	0.162
Fault current carrying capacity of conductor	kA/1sec	22.68
Mechanical data		
Maximum pulling tension of conductor	kN	37.4
Min. bending radius during installation	mm	1350
Min. bending radius after installed	mm	1010