

0.6/1kV PWC
1. Design guidelines.

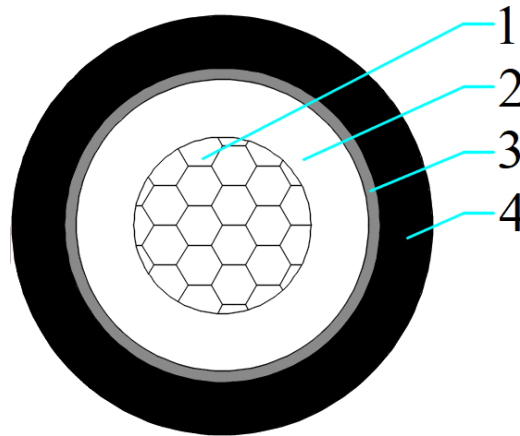
AS/NZS 5000.1	Electric cables-Polymeric insulated Part 1: For working voltages up to and including 0.6/1kV(1.2)kV
AS/NZS 1125	Conductors in insulated electric cables and flexible cords
AS/NZS 3808	Insulating and sheathing materials for electric cables

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 1 core Al(WBY)/XLPE/NY/MDPE(Black) - HCA401015PWC



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: Natural
Marking on cable: by printing in one line on the surface of outer sheath
HENG TONG CABLE AUSTRALIA "YEAR" ELECTRIC CABLE 0.6/1kV CHINA 240mm ² 1 core Al(WBY) XLPE NY MDPE XXXXm



**TECHNICAL DATA SHEET
HENGTONG CABLE AUSTRALIA**

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5. Construction parameters.

Description	Unit	Values
Active Conductor		
Material	-	Copper
Nominal cross-sectional area	mm ²	240
Conductor shape	/	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
Max. diameter of cable	mm	29.0
Approx. mass of cable	kg/km	985
Electrical data		
Max. D.C. resistance of active conductor at 20°C	Ω/km	0.125
Max. A.C. resistance of conductor at 90°C	Ω/km	0.162
Fault current carrying capacity of conductor	kA/1sec	22.68
Mechanical data		
Maximum pulling tension of conductor	kN	9.36
Min. bending radius during installation	mm	730
Min. bending radius after installed	mm	470