HENGTONG GROUP	TECHNICAL DATA SHEET HENGTONG CABLE AUSTRALIA	Doc No.: HCA200706.2
		Rev: 2
	0.6/1(1.2) kV PWC	Date: 4/13/2023
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1. Design guidelines.

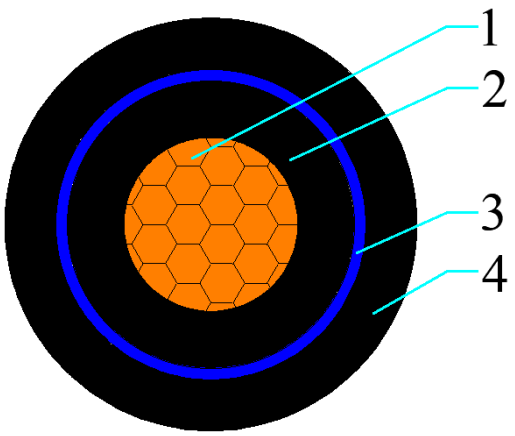
AS/NZS 5000.1	Electric cables-Polymeric insulated Part 1: For working voltages up to and including 0.6/1kV(1.2)kV
AS/NZS 1125	Conductors in insulated electric cables and flexible cords
AS/NZS 3808	Insulating and sheathing materials for electric cables

2. Application.

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

3. Construction.

HCA - 25mm² x 1 Core Cu/XLPE(Black)/NY/MDPE(Black) – HCA9456PWC



1	Conductor	Class 2, plain annealed circular compacted Copper conductor
2	Insulation	X-90 Black
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: Black
Marking on cable: by printing in one line on the surface of outer sheath
HENGTONG CABLE AUSTRALIA “YEAR” ELECTRIC CABLE 0.6/1kV CHINA 25mm² x 1 Core Cu XLPE(Black) NY MDPE XXXXm

5. Construction parameters.

Description	Unit	Values
Active Conductor		
Material	-	Copper
Nominal cross-sectional area	mm^2	25
Conductor shape	/	Circular Compacted
Approx. diameter of active conductor	mm	6.0
Active Insulation		
Material	-	X-90
Nominal thickness/Min. thickness at any point	mm	0.9/0.71
Approx. diameter over insulation	mm	8.0
Insect protection		
Material	-	Nylon 12
Min. thickness at any point	mm	0.50
Approx. diameter over Insect protection	mm	9.6
Outer sheath		
Material	-	HDPE
Nominal thickness/Min. thickness at any point	mm	1.4/1.09
Approx. diameter of outer sheath	mm	12.6
Max. diameter of cable	mm	14.6
Approx. mass of cable	kg/km	316
Electrical data		
Max. D.C. resistance of active conductor at 20℃	Ω/km	0.727
Max. A.C. resistance of conductor at 90℃	Ω/km	0.927
Fault current carrying capacity of conductor	kA/1sec	3.58
Mechanical data		
Maximum pulling tension of conductor	kN	1.7
Min. bending radius during installation	mm	370
Min. bending radius after installed	mm	220