

1. Design guidelines.

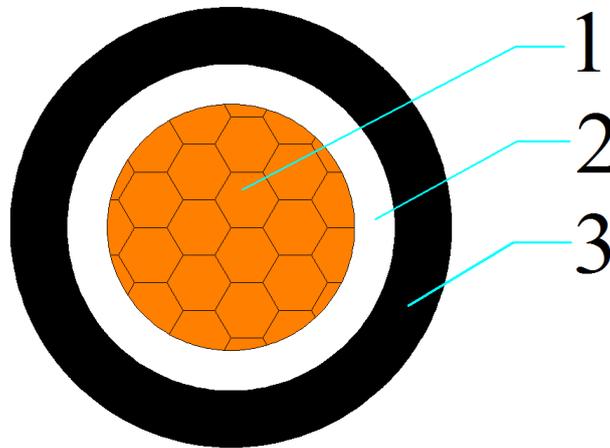
AS/NZS 5000.1	Electric cables-Polymeric insulated Part 1: For working voltages up to and including 0.6/1kV(1.2)kV
AS/NZS 1125	Conductors in insulated electric cables and flexible cords
AS/NZS 3808	Insulating and sheathing materials for electric cables

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 - 35mm² x 1 core Cu/XLPE/PVC(V-75) - HCA9092PWC



1	Conductor	Class 2, plain annealed circular compacted Copper conductor
2	Insulation	XLPE
3	Over sheath	4V-75 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 6.35/11kV 35mm ² 1 core Cu XLPE PVC XXXXm



**TECHNICAL DATA SHEET
HENGTONG CABLE AUSTRALIA**

Doc No.:
GD/TC/4120001-2020

Rev: 1

6.35/11(12)kV PWC

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Page: 2 of 2

5. Construction parameters.

Description	Unit	Values
Active Conductor		
Material	-	Copper
Nominal cross-sectional area	mm ²	35
Conductor shape	/	Circular Compacted
Approx. diameter of active conductor	mm	7.0
Active Insulation		
Material	-	XLPE
Nominal thickness/Min. thickness at any point	mm	3.4/2.96
Approx. diameter over insulation	mm	13.8
Over sheath		
Material	-	4V-75
Nominal thickness/Min. thickness at any point	mm	2.1/1.48
Approx. diameter of outer sheath	mm	18.1
Max. diameter of cable	mm	20.1
Approx. mass of cable	kg/km	563
Electrical data		
Max. D.C. resistance of active conductor at 20°C	Ω/km	0.524
Max. A.C. resistance of conductor at 90°C	Ω/km	0.6684
Fault current carrying capacity of conductor	kA/1sec	5.0
Mechanical data		
Maximum pulling tension of conductor	kN	2.4
Min. bending radius during installation	mm	360
Min. bending radius after installed	mm	240