

**1. Design guidelines.**

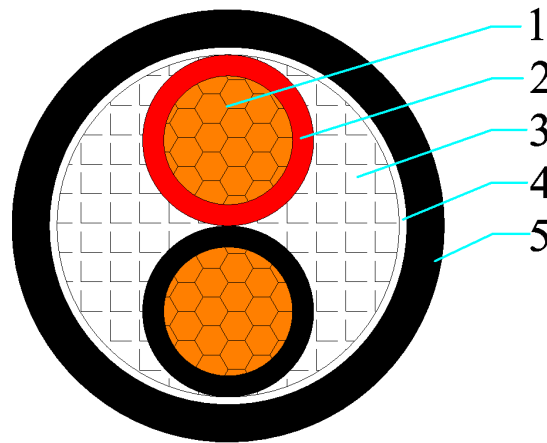
AS/NZS 5000.1	Electric cables-Polymeric insulated Part 1: For working voltages up to and including 0.6/1kV(1.2)kV
AS/NZS 1125	Conductors in insulated electric cables and flexible cords
AS/NZS 3808	Insulating and sheathing materials for electric cables

**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 - 150mm<sup>2</sup> x 2 core Cu/XLPE/PVC(Black) 1kV - HCA-QMR150x2CuXP-B-1**



1	Conductor	Class 2, plain annealed circular compacted Copper conductor
2	Insulation	X-90
3	Filler	Non-hygroscopic material
4	Binder tape	Non-hygroscopic material
5	Over sheath	5V-90 Black

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

Identification of core: Red, Black
Marking on cable: by printing in one line on the surface of outer sheath
HENG TONG CABLE AUSTRALIA "YEAR" ELECTRIC CABLE 0.6/1kV HPC-S 150mm <sup>2</sup> x 2 Core Cu XLPE PVC XXXXm

	<b>TECHNICAL DATA SHEET</b> <b>HENG TONG CABLE AUSTRALIA</b>	Doc No.: GD/TC/4120001-2022
	<b>0.6/1kV QMR</b>	Rev: 1
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#### 5. Construction parameters.

Description	Unit	Values
<b>Active Conductor</b>		
Material	-	Copper
Nominal cross-sectional area	mm <sup>2</sup>	150
Conductor shape	/	Circular Compacted
Approx. diameter of active conductor	mm	14.4
<b>Active Insulation</b>		
Material	-	X-90
Nominal thickness/Min. thickness at any point	mm	1.4/1.16
Approx. diameter over insulation	mm	17.4
<b>Laying up of cores</b>		
Direction of lay		Right
Diameter of laid up core	mm	35.6
<b>Oversheath</b>		
Material	-	5V-90
Nominal thickness/Min. thickness at any point	mm	2.2/1.77
Approx. diameter of oversheath	mm	40.0
<b>Max. diameter of cable</b>	mm	42.0
<b>Approx. mass of cable</b>	kg/km	3,402
<b>Electrical data</b>		
Max. D.C. resistance of active conductor at 20°C	Ω/km	0.124
Max. A.C. resistance of conductor at 90°C	Ω/km	0.160
Fault current carrying capacity of conductor	kA/1sec	21.46
<b>Mechanical data</b>		
Maximum pulling tension of conductor	kN	20.4
Min. bending radius during installation	mm	760
Min. bending radius after installed	mm	500