

**0.6/1kV EQL**
**1. Design guidelines.**

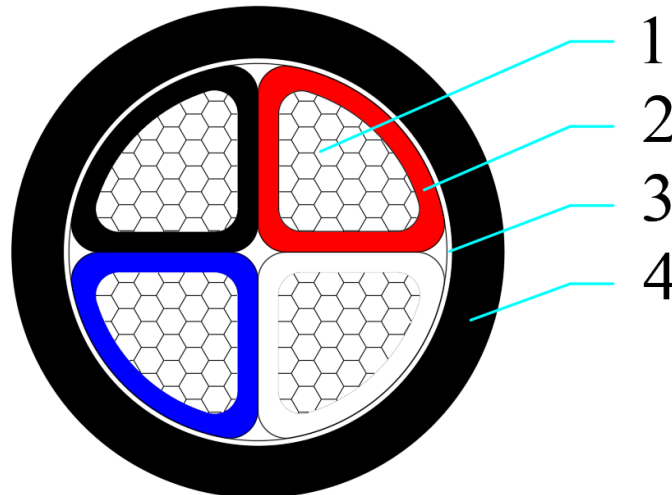
AS/NZS 4026	Electric cables-For underground residential distribution systems
AS/NZS 5000.1	Electric cables-Polymeric insulated Part 1: For working voltages up to and including 0.6/1kV(1.2)kV
AS/NZS 1125	Conductors in insulated electric cables and flexible cords
AS/NZS 3808	Insulating and sheathing materials 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 - 240mm<sup>2</sup> x 4 core Al(S)/XLPE/PVC(Black) 1kV - HCA1634155EQL**



1	Conductor	Class 2, sector compacted Aluminium conductor
2	Insulation	X-90
3	Binder tape	Non-hygroscopic material
4	Outer sheath	5V-90 Black

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

Identification of core: Black, Red, White, Blue
Marking on cable: by printing in one line on the surface of outer sheath
HENG TONG CABLE AUSTRALIA "YEAR" ELECTRIC CABLE ERGON 440 0.6/1kV 240mm <sup>2</sup> 4 Core Al(S) XLPE PVC XXXXm

**5. Construction parameters.**

Description	Unit	Values
<b>Active Conductor</b>		
Material	-	Aluminium
Nominal cross-sectional area	mm <sup>2</sup>	240
Conductor shape	/	Sector Compacted
Approx. diameter of active conductor	mm	17.4
<b>Active Insulation</b>		
Material	-	X-90
Nominal thickness/Min. thickness at any point	mm	1.7/1.43
Approx. diameter over insulation	mm	21.0
<b>Laying up of cores</b>		
Direction of lay		Right
Diameter of laid up core	mm	51.7
<b>Oversheath</b>		
Material	-	5V-90
Nominal thickness/Min. thickness at any point	mm	2.8/2.04
Approx. diameter of oversheath	mm	57.3
<b>Max. diameter of cable</b>	mm	60.1
<b>Approx. mass of cable</b>	kg/km	3,819
<b>Electrical data</b>		
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	0.157
Fault current carrying capacity of conductor	kA/1sec	22.7
<b>Mechanical data</b>		
Maximum pulling tension of conductor	kN	37.4
Min. bending radius during installation	mm	720
Min. bending radius after installed	mm	480