

# TECHNICAL DATA SHEET HENGTONG CABLE AUSTRALIA

0.6/1(1.2) kV EQL

Doc No.: GD/TC/4120001-2022
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### 1. Design guidelines.

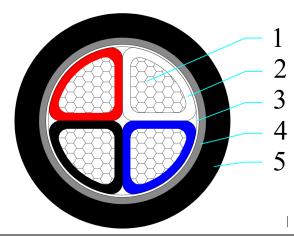
AS/NZS 4026	Electric cables-For underground residential distribution systems
AC/NIZO 5000 4	Electric cables-Polymeric insulated Part 1: For working voltages up to and including
AS/NZS 5000.1	0.6/1kV(1.2)kV
AS/NZS 1125	Conductors in insulated electric cables and flexible cords
AS/NZS 3808	Insulating and 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 4 core AI(S)/XLPE/NY/PVC(Black) 1kV - HCA2400272EQL



1	Conductor	Class 2, plain annealed sector compacted Aluminium conductor	
2	Insulation	X-90	
3	Binder tape	Non-hygroscopic material	
4	Insect protection	Nylon 12	
5	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		
HENGTONG CABLE AUSTRALIA "YEAR" ELECTRIC CABLE ERGON 441 0.6/1kV		
240mm² x 4 Core Al(S) XLPE NY PVC XXXXm		



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### 5. Construction parameters.

Description	Unit	Values
Active Conductor		
Material	-	Copper
Nominal cross-sectional area	mm²	240
Conductor shape	1	Sector Compacted
Approx. diameter of active conductor	mm	17.4
Active Insulation		
Material	-	X-90
Nominal thickness/Min. thickness at any point	mm	1.7/1.43
Approx. diameter over insulation	mm	21.0
Laying up of cores		
Direction of lay		Right
Diameter of laid up core	mm	52.1
Insect protection		
Material	-	Nylon 12
Min. thickness at any point	mm	0.80
Approx. diameter over Insect protection	mm	54.5
Outer sheath		
Material		5V-90
Nominal thickness/Min. thickness at any point	mm	2.8/2.28
Approx. diameter of outer sheath		64.1
Max. diameter of cable	mm	67.3
Approx. mass of cable	kg/km	4,636
Electrical data		
Max. D.C. resistance of active conductor at 20℃	Ω/km	0.125
Max. A.C. resistance of conductor at 90℃	Ω/km	0.162
Fault current carrying capacity of conductor	kA/1sec	22.68
Mechanical data		
Maximum pulling tension of conductor	kN	37.44
Min. bending radius during installation	mm	1750
Min. bending radius after installed	mm	1170