	TECHNICAL DATA SHEET HENGTONG CABLE AUSTRALIA	Doc No.: GD/TC/416001-2022
		Rev:
	6.35/11(12) kV EQL	Date: 1/4/2022
		Page: 1 of 2

1. Design guidelines.

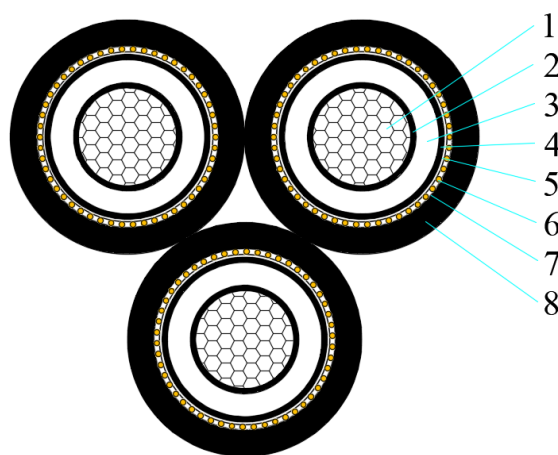
AS/NZS 4026	Electric cables-For underground residential distribution systems
AS/NZS 1429.1	Electric cables-Polymeric insulated Part 1: For working voltages 1.9/3.3(3.6) kV up to and including 19/33(36) kV
AS/NZS 1125	Conductors in insulated electric cables and flexible cords
AS/NZS 3808	Insulating and 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 3*1 core Al(WBY)/TR-XLPE/WBT/CWS(3kA)/WBT/HDPE(Triplex) 11kV - HCA20363EQL



1	Conductor	Class 2, circular compacted Aluminium conductor(non-conductive water-blocking yarn) A Semi-conductive tape shall be applied over the conductor
2	Conductor screen	Semi-conductive compound
3	Insulation	TR-XLPE
4	Insulation screen	Semi-conductive compound
5	Bedding tape	Semi-conductive water-blocking tape
6	Metallic screen	Plain annealed copper wire screen
7	Binder tape	Water-blocking tape
8	Outer sheath	HDPE Black

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

Identification of core: Printing 1 ONE, 2 TWO, 3 THREE
Marking on cable: by printing in two diametrically opposed lines on the surface of outer sheath (one phase)
HENGTONG CABLE AUSTRALIA "YEAR" ELECTRIC CABLE ENERGEX 403 6.35/11kV 240mm ² x 3*1 core Al(WBY) TR-XLPE WBT CWS(3kA) WBT HDPE Triplex XXXXm <i>Note: Meter mark indicates the length of each core, not completed cable.</i>

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		Page: 2 of 2

5. Construction parameters.

Description	Unit	Values
Active Conductor		
Material	-	Aluminium
Nominal cross-sectional area	mm ²	240
Conductor shape	/	Circular Compacted
Approx. diameter of active conductor	mm	18.5
Conductor screen		
Min. thickness at any point	mm	0.3
Approx. diameter of conductor screen	mm	20.4
Active Insulation		
Material	-	TR-XLPE
Nominal thickness/Min. thickness at any point	mm	3.4/2.96
Approx. diameter over insulation	mm	27.2
Insulation screen		
Type	-	Hand-strippable
Min. thickness at any point	mm	0.6
Approx. diameter of insulation screen	mm	29.6
Metallic screen		
No.& Diameter of copper wires per phase	No./mm	35/0.85
Approx. diameter of metallic screen	mm	31.3
Outer sheath		
Material	-	HDPE
Nominal thickness/Min. thickness at any point	mm	2.0/1.40
Approx. diameter of outer sheath	mm	37.1
Laying up		
Direction of lay	-	Right
Diameter of laid up core	mm	80.0
Max. diameter of cable	mm	84.0
Approx. mass of cable	kg/km	4,531
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	0.161
Fault current carrying capacity of conductor	kA/1sec	22.7
Fault current carrying of screen	kA/1sec	3.0
Mechanical data		
Maximum pulling tension of conductor	kN	28.1
Min. bending radius during installation	mm	550
Min. bending radius after installed	mm	370