	TECHNICAL DATA SHEET HENGTONG CABLE AUSTRALIA	Doc No.: GD/TC/412001-2022
		Rev:
	6.35/11(12) kV EQL	Date: 1/4/2022
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1. Design guidelines.

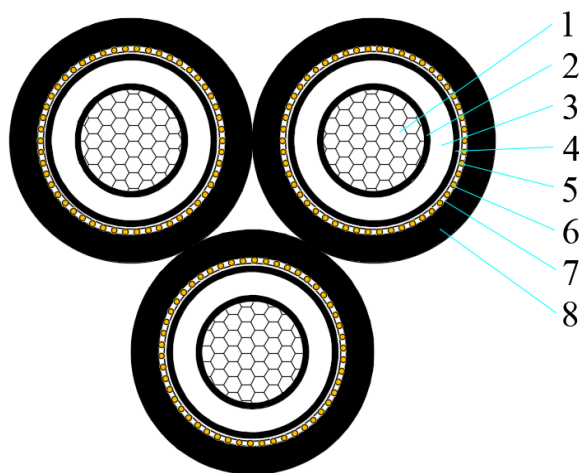
AS/NZS 1429.1	Electric cables-Polymeric insulated Part 1: For working voltages 1.9/3.3(3.6) kV up to and including 19/33(36) kV
AS/NZS 1125	Conductors in insulated electric cables and flexible cords
AS/NZS 3808	Insulating and sheathing materials for electric cables

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 - 400mm² x 3*1 core Al(WBY)/TR-XLPE/WBT/CWS(6kA)/WBT/MDPE(Triplex) 11kV - HCA22339EQL



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	MDPE 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 9 6.35/11kV 400mm ² x 3*1 core Al(WBY) TR-XLPE WBT CWS(6kA) WBT MDPE Triplex XXXXm <i>Note: Meter mark indicates the length of each core, not completed cable.</i>

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5. Construction parameters.

Description	Unit	Values
Active Conductor		
Material	-	Aluminium
Nominal cross-sectional area	mm ²	400
Conductor shape	/	Circular Compacted
Approx. diameter of active conductor	mm	23.4
Conductor screen		
Min. thickness at any point	mm	0.3
Approx. diameter of conductor screen	mm	25.3
Active Insulation		
Material	-	TR-XLPE
Nominal thickness/Min. thickness at any point	mm	3.4/2.96
Approx. diameter over insulation	mm	32.1
Insulation screen		
Type	-	Hand-strippable
Min. thickness at any point	mm	0.6
Approx. diameter of insulation screen	mm	33.6
Metallic screen		
No.& Diameter of copper wires per phase	No./mm	47/1.07
Approx. diameter of metallic screen	mm	36.6
Outer sheath		
Material	-	MDPE
Nominal thickness/Min. thickness at any point	mm	2.2/1.56
Approx. diameter of outer sheath	mm	42.8
Laying up		
Direction of lay	-	Right
Diameter of laid up core	mm	92.4
Max. diameter of cable	mm	97.0
Approx. mass of cable	kg/km	6,836
Electrical data		
Max. D.C. resistance of active conductor at 20°C	Ω/km	0.0778
Max. A.C. resistance of conductor at 90°C	Ω/km	0.102
Fault current carrying capacity of conductor	kA/1sec	37.8
Fault current carrying of screen	kA/1sec	6.0
Mechanical data		
Maximum pulling tension of conductor	kN	46.8
Min. bending radius during installation	mm	640
Min. bending radius after installed	mm	420