	<b>TECHNICAL DATA SHEET</b> <b>HENGTONG CABLE AUSTRALIA</b>	Doc No.: GD/TC/4120001-2022
		Rev:
	<b>6.35/11(12) kV EQL</b>	Date: 1/4/2022
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### 1. Design guidelines.

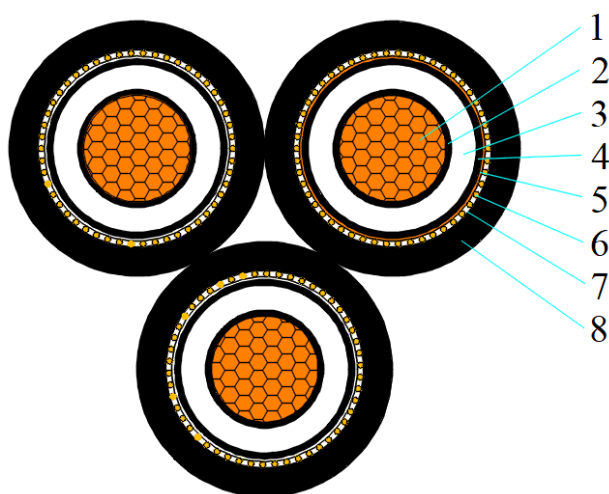
AS/NZS 1429.1	Electric cables-Polymeric insulated Part 1: For working voltages 1.9/3.3(3.6) kV up to and including 19/33(36) kV
AS/NZS 1125	Conductors in insulated electric cables and flexible cords
AS/NZS 3808	Insulating and sheathing materials for electric cables

### 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 - 240mm<sup>2</sup> x 3\*1 core Cu(WBY)/TR-XLPE/WBT/CWS(6kA)/WBT/MDPE(Triplex) 11kV - HCA21615EQL**



1	Conductor	Class 2, plain annealed circular compacted Copper 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 8 6.35/11kV 240mm <sup>2</sup> x 3*1 core Cu 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
<b>Active Conductor</b>		
Material	-	Copper
Nominal cross-sectional area	mm <sup>2</sup>	240
Conductor shape	/	Circular Compacted
Approx. diameter of active conductor	mm	18.5
<b>Conductor screen</b>		
Min. thickness at any point	mm	0.3
Approx. diameter of conductor screen	mm	20.4
<b>Active Insulation</b>		
Material	-	TR-XLPE
Nominal thickness/Min. thickness at any point	mm	3.4/2.96
Approx. diameter over insulation	mm	27.2
<b>Insulation screen</b>		
Type	-	Hand-strippable
Min. thickness at any point	mm	0.6
Approx. diameter of insulation screen	mm	28.7
<b>Metallic screen</b>		
No.& Diameter of copper wires per phase	No./mm	45/1.07
Approx. diameter of metallic screen	mm	31.7
<b>Outer sheath</b>		
Material	-	MDPE
Nominal thickness/Min. thickness at any point	mm	2.0/1.40
Approx. diameter of outer sheath	mm	37.5
<b>Laying up</b>		
Direction of lay	-	Right
Diameter of laid up core	mm	81.0
<b>Max. diameter of cable</b>	mm	85.1
<b>Approx. mass of cable</b>	kg/km	9,726
<b>Electrical data</b>		
Max. D.C. resistance of active conductor at 20℃	Ω/km	0.0754
Max. A.C. resistance of conductor at 90℃	Ω/km	0.0979
Fault current carrying capacity of conductor	kA/1sec	34.3
Fault current carrying of screen	kA/1sec	6.0
<b>Mechanical data</b>		
Maximum pulling tension of conductor	kN	49.0
Min. bending radius during installation	mm	560
Min. bending radius after installed	mm	370