

1. Design guidelines.

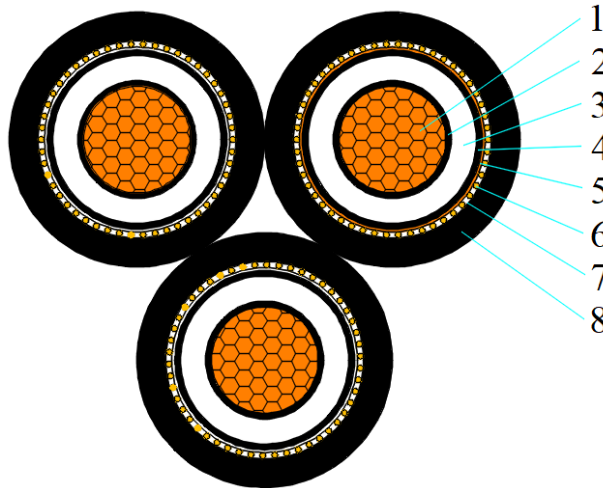
AS/NZS 1429.1	Electric cables-Polymeric insulated Part 1: For working voltages 1.9/3.3(3.6) kV up to and including 19/33(36) kV
AS/NZS 1125	Conductors in insulated electric cables and flexible cords
AS/NZS 3808	Insulating and sheathing materials for electric cables

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 - 240mm² 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 may 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)
HENG TONG CABLE AUSTRALIA "YEAR" ELECTRIC CABLE ENERGEX 8 6.35/11kV 240mm ² 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
Active Conductor		
Material	-	Copper
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	28.7
Metallic screen		
No.& Diameter of copper wires per phase	No./mm	45/1.07
Approx. diameter of metallic screen	mm	31.7
Outer sheath		
Material	-	MDPE
Nominal thickness/Min. thickness at any point	mm	2.0/1.40
Approx. diameter of outer sheath	mm	37.5
Laying up		
Direction of lay	-	Right
Diameter of laid up core	mm	81.0
Max. diameter of cable	mm	85.1
Approx. mass of cable	kg/km	9,726
Electrical data		
Max. D.C. resistance of active conductor at 20°C	Ω/km	0.0754
Max. A.C. resistance of conductor at 90°C	Ω/km	0.0979
Fault current carrying capacity of conductor	kA/1sec	34.3
Fault current carrying of screen	kA/1sec	6.0
Mechanical data		
Maximum pulling tension of conductor	kN	49.0
Min. bending radius during installation (one phase)	mm	940
Min. bending radius after installed (one phase)	mm	560
Min. bending radius during installation (bundled cable)	mm	1270



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Description	Unit	Values
Min. bending radius after installed (bundled cable)	mm	850