1. Design guidelines.

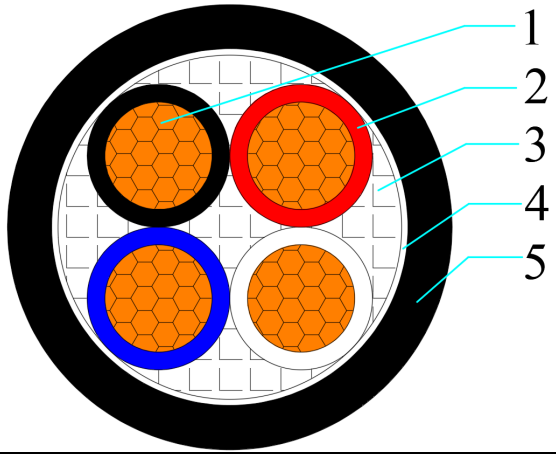
AS/NZS 5000.1	Electric cables-Polymeric insulated Part 1: For working voltages up to and including 0.6/1kV(1.2)kV
AS/NZS 1125	Conductors in insulated electric cables and flexible cords
AS/NZS 3808	Insulating and sheathing materials for electric cables

2. Application.

Normal use operating temperature	90℃
Max. conductor temperature during short circuit(5s)	250℃
Lowest recommended temperature during installation	0℃

3. Construction.

HCA - 25mm² x 4 core Cu/XLPE/HDPE(Black) 1kV - HCA-QMR25x4CuXH-B-1



1	Conductor	Class 2, plain annealed circular compacted Copper conductor
2	Insulation	X-90
3	Filler	Non-hygroscopic material
4	Binder tape	Non-hygroscopic material
5	Outer sheath	HDPE Black

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

Identification of core: Red, White, Blue, Black
Marking on cable: by printing in one line on the surface of outer sheath
HENGTONG CABLE AUSTRALIA “YEAR” ELECTRIC CABLE 0.6/1kV HPC-N 25mm² 4 core Cu XLPE HDPE XXXXm

5. Construction parameters.

Description	Unit	Values
Conductor		
Material	-	Copper
Nominal cross-sectional area	mm^2	25
Conductor shape	/	Circular Compacted
Approx. diameter of active conductor	mm	6
Insulation		
Material	-	X-90
Nominal thickness/Min. thickness at any point	mm	0.9/0.71
Approx. diameter over insulation	mm	8.0
Laying up of cores		
Direction of lay		Right
Diameter of laid up core	mm	19.4
Oversheath		
Material	-	HDPE
Nominal thickness/Min. thickness at any point	mm	1.8/1.43
Approx. diameter of oversheath	mm	23.4
Max. diameter of cable	mm	25.4
Approx. mass of cable	kg/km	1,148
Electrical data		
Max. D.C. resistance of conductor at 20℃	Ω/km	0.727
Max. A.C. resistance of conductor at 90℃	Ω/km	0.927
Fault current carrying capacity of conductor	kA/1sec	3.58
Mechanical data		
Maximum pulling tension of conductor	kN	6.8
Min. bending radius during installation	mm	640
Min. bending radius after installed	mm	380