

## TECHNICAL DATA SHEET HENGTONG CABLE AUSTRALIA

Doc No.: GD/TC/4120001-2022 Rev: 1

# 0.6/1kV QMR

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## +1. Design guidelines.

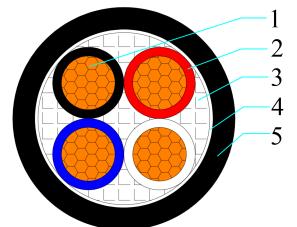
AS/NZS 5000.1	Electric cables-Polymeric insulated Part 1: For working voltages up to and including 0.6/1kV(1.2)kV
AS/NZS 1125	Conductors in insulated electric cables and flexible cords
AS/NZS 3808	Insulating and sheathing materials for electric cables

## 2. Application.

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

#### 3. Construction.

## HCA - 70mm<sup>2</sup> x 4 core Cu/XLPE/HDPE(Black) 1kV - HCA-QMR70x4CuXH-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-S		
70mm <sup>2</sup> 4 core Cu XLPE HDPE XXXXm		



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### 5. Construction parameters.

Description	Unit	Values
Conductor		
Material	-	Copper
Nominal cross-sectional area	mm <sup>2</sup>	70
Conductor shape	/	Circular Compacted
Approx. diameter of active conductor	mm	9.9
Insulation		
Material	-	X-90
Nominal thickness/Min. thickness at any point	mm	1.1/0.89
Approx. diameter over insulation	mm	12.3
Laying up of cores		
Direction of lay		Right
Diameter of laid up core	mm	29.8
Oversheath		
Material	-	HDPE
Nominal thickness/Min. thickness at any point	mm	2.0/1.60
Approx. diameter of oversheath	mm	34.2
Max. diameter of cable	mm	36.2
Approx. mass of cable	kg/km	2,890
Electrical data		
Max. D.C. resistance of conductor at 20 $^\circ\!\!\!\mathrm{C}$	Ω/km	0.268
Max. A.C. resistance of conductor at 90°C	Ω/km	0.343
Fault current carrying capacity of conductor	kA/1sec	10.02
Mechanical data		
Maximum pulling tension of conductor	kN	19.04
Min. bending radius during installation	mm	910
Min. bending radius after installed	mm	540