

TECHNICAL DATA SHEET HENGTONG CABLE AUSTRALIA

Doc No.: S17101001 Rev: 1

0.6/1(1.2) kV QMR

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1. Design guidelines.

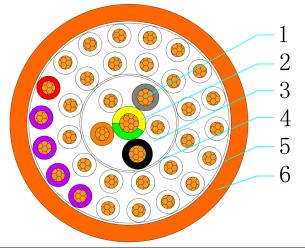
AS/NZS 2276.1	Cables for traffic signal installations Part1: Multicore power cables	
AS/NZS 1125	Conductors in insulated electric cables and flexible cords	
AS/NZS 3808	Insulating and sheathing materials for electric cables	

2. Application.

Normal use operating temperature	75°C
Max. conductor temperature during short circuit(5s)	160°C
Lowest recommended temperature during installation 0°C	

3. Construction.

HCA - 36 Cores Traffic Signal Cable Cu/PVC/PVC(Orange) 1kV - HCA-QMR36CuPP-O-T-1



1	Conductor	Class 5, plain, annealed, flexible Copper conductor	
2	Insulation	V-90	
3	Filler	Non-hygroscopic material	
4	Binder tape	Non-hygroscopic material	
5	Binder tape	Non-hygroscopic material	
6	Outer sheath	5V-90 Orange	

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

Core identification:		
ELV return	Grey	
Neutral and Earth	Black and G/Y	
Phase	27×White cores with black numbering, 4×Purple cores with black numbering, 1×Red,	
	1×Orange	
Cable marking: by printing in one line on the surface of outer sheath		
HENGTONG CABLE AUSTRALIA "YEAR" ELECTRIC CABLE 0.6/1KV HPC-N		
36 Cores Traffic Signal Cable Cu PVC PVC XXXXm		



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5. Construction parameters.

Description	Unit	Values
Conductor for Earth Core		
Cross sectional area	mm ²	6
Shaped	/	Circular Stranded
Approx. diameter of conductor	mm	3.02
Insulation for Earth Core		
Average thickness/Min. thickness at any point	mm	1.0/0.80
Approx. diameter over insulation	mm	5.8
Conductor for Black Core		
Cross sectional area	mm ²	4
Shaped	/	Circular Stranded
Approx. diameter of conductor	mm	2.48
Insulation for Black Core		
Average thickness/Min. thickness at any point	mm	1.0/0.80
Approx. diameter over insulation	mm	5.2
Conductor for Grey Core		
Cross sectional area	mm ²	2.5
Shaped	/	Circular Stranded
Approx. diameter of conductor	mm	1.95
Insulation for Grey Core		
Nominal thickness/Min. thickness at any point	mm	0.8/0.62
Approx. diameter over insulation	mm	4.2
Conductor for White/Orange/Red/Pink Core		
Cross sectional area	mm ²	1.5
Shaped	/	Circular Stranded
Approx. diameter of conductor	mm	1.58
Insulation for White/Orange/Red/Pink Core		
Nominal thickness/Min. thickness at any point	mm	0.8/0.62
Approx. diameter over insulation	mm	3.8
Laying up		
Direction of lay		Right
Diameter of laid up core	mm	32.3
Outer sheath (PVC)		
Nominal thickness/Min. thickness at any point	mm	2.0/1.60
Approx. diameter over PVC sheath	mm	36.7
Max. diameter of cable	mm	38.7
Approx. mass of cable	kg/km	1,830
Min. bending radius during installation	mm	348
Min. bending radius after installed	mm	232



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Description		Unit	Values
Max. D.C. resistance of conductor at 20°C		Ω/km	13.3
Fault current carrying capacity of conductor for 1 second		kA	0.2
Maximum pulling tension of conductor		kN	4.22