

## TECHNICAL DATA SHEET HENGTONG CABLE AUSTRALIA

1.9/3.3(3.6)kV PWC

Doc No.: GD/TC/416001-2023	
Rev: 1	
Date: 4/4/2023	
Page: 1of 2	

## 1. Design guidelines.

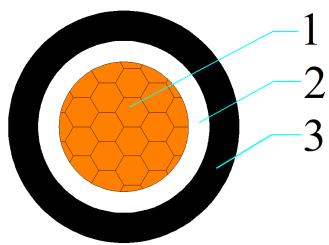
AS/NIZS 5000 1	Electric cables-Polymeric insulated Part 1: For working voltages up to and including		
AS/NZS 5000.1	0.6/1kV(1.2)kV		
	Electric cables-Polymeric insulated Part 1: For working voltages 1.9/3.3(3.6) kV up to and		
AS/NZS 1429.1	including 19/33(36) kV (Insulation thickness only)		
AS/NZS 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 - 70mm² x 1 core T-Cu(F)/R-EP-90/GP-85-PCP Flexible - HCA406718PWC



1	Conductor	Class 5, tinned annealed circular stranded Copper conductor	
2	Insulation	R-EP-90	
3	Oversheath	GP-85-PCP Black	

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

Identification of core: Natural		
Marking on cable: by printing in one line on the surface of outer sheath		
HENGTONG CABLE AUSTRALIA "YEAR" ELECTRIC CABLE 1.9/3.3kV		
70mm² x 1 core T-Cu(F) R-EP-90 GP-85-PCP Flexible 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	1	Circular Stranded
Approx. diameter of active conductor	mm	11.8
Insulation		
Material	-	R-EP-90
Nominal thickness/Min. thickness at any point	mm	2.2/1.88
Approx. diameter over insulation	mm	17.0
Oversheath		
Material	-	GP-85-PCP
Nominal thickness/Min. thickness at any point	mm	2.0/1.60
Approx. diameter of oversheath	mm	21.0
Max. diameter of cable	mm	23.0
Approx. mass of cable	kg/km	957
Electrical data		
Max. D.C. resistance of conductor at 20℃	Ω/km	0.277
Max. A.C. resistance of conductor at 90 ℃	Ω/km	0.354
Fault current carrying capacity of conductor	kA/1sec	10.02
Mechanical data		
Maximum pulling tension of conductor	kN	4.76
Min. bending radius during installation	mm	140
Min. bending radius after installed	mm	90