

1.9/3.3(3.6)kV PWC
1. Design guidelines.

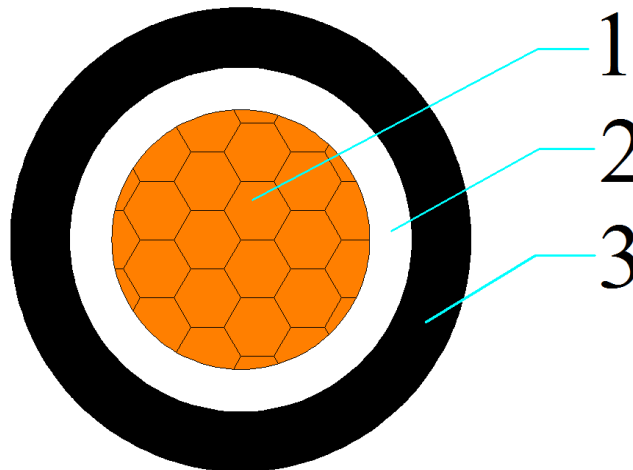
AS/NZS 5000.1	Electric cables-Polymeric insulated Part 1: For working voltages up to and including 0.6/1kV(1.2)kV
AS/NZS 1429.1	Electric cables-Polymeric insulated Part 1: For working voltages 1.9/3.3(3.6) kV up to and including 19/33(36) kV (Insulation thickness only)
AS/NZS 1125	Conductors in insulated 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 - 35mm² x 1 core T-Cu(F)/R-EP-90/GP-85-PCP Flexible - HCA402707PWC



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
HENG TONG CABLE AUSTRALIA "YEAR" ELECTRIC CABLE 1.9/3.3kV 35mm ² x 1 core T-Cu(F) R-EP-90 GP-85-PCP Flexible XXXXm



**TECHNICAL DATA SHEET
HENGTONG CABLE AUSTRALIA**

Doc No.:
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5. Construction parameters.

Description	Unit	Values
Conductor		
Material	-	Copper
Nominal cross-sectional area	mm ²	35
Conductor shape	/	Circular Stranded
Approx. diameter of active conductor	mm	8.7
Insulation		
Material	-	R-EP-90
Nominal thickness/Min. thickness at any point	mm	2.2/1.88
Approx. diameter over insulation	mm	13.9
Oversheath		
Material	-	GP-90-PCP
Nominal thickness/Min. thickness at any point	mm	2.0/1.60
Approx. diameter of oversheath	mm	17.9
Max. diameter of cable	mm	19.9
Approx. mass of cable	kg/km	588
Electrical data		
Max. D.C. resistance of conductor at 20°C	Ω/km	0.565
Max. A.C. resistance of conductor at 90°C	Ω/km	0.721
Fault current carrying capacity of conductor	kA/1sec	5.01
Mechanical data		
Maximum pulling tension of conductor	kN	2.38
Min. bending radius during installation	mm	120
Min. bending radius after installed	mm	80