

## MATERIAL SPECIFICATION

VOCAB NUMBER	ITEM DESCRIPTION
111003	CONDUCTOR, 7/2.00 COPPER, HARD DRAWN, BARE, 6.00MM DIAMETER 22MM <sup>2</sup>

### SPECIFICATION DETAILS

Hard drawn bare copper conductor in accordance with AS 1746 – 1991.  
 "Hard-drawn copper conductors for Overhead Power Transmission purposes".

**Standing**            7/2.75  
**Packing Length**   2000m

The Conductor shall be supplied on timber drums in accordance with the attached general specification. Attention is drawn to the requirements of clause 7.



- **Unit of Measure:** Metres
- **Rejection:** PNG Power Ltd reserves all rights to reject whole or part of the order not complying with this specification and is not liable for any cost or loss with the return of rejects to the Supplier. Facilitation of Invoice Credit must commence between the supplier and PNG Power Ltd through the process of PNG Power Ltd Discrepancy Report provisions.

<b>Drawing References:</b>	<b>Manufacturer's Product Code:</b>
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### STANDARDS COMMITTEE APPROVAL

Approval by Alex Oa            Signature:             Date: 8./7./2015  
**Chairman**

### DATA REVIEW ENDORSEMENT

NAME	TITLE	SIGNATURE	DATE
Grevasias Peni	Team Leader Standards & Materials		29/6/15
G. PENI	✓		29/1/19

**SPECIFICATION FOR TIMBER DRUMS FOR INSULATED CABLES AND BARE CONDUCTORS****VOCAB NO: 111003**

1. All drums shall comply with AS 2857 "Timber Drums for Insulated Electric Cables and Bare Conductors" and the last amendments.
2. The net contents of any drum shall not exceed the capacity limits of clause 2.1.1 of AS 2857.
3. Spindle holes shall be reinforced with steel plates in accordance with clause 2.5 of AS 2857.
4. All drums other than those with plywood flanges shall be supplied with close fittings timer batten lagging in accordance with clause 6.3 of AS 2857.
5. Drums intended to be used for bare aluminium based conductors shall be evenly coated on the barrel and inside flanges with an aluminium paint or approved alternative. See clause 6.1 AS 2857.
6. Drums intended to be used for underground cables shall be fabricated from preservative treated timber.
  - 6.1 Preservative treatment of timber shall comply with the requirements of Australian standard AS 1604 "Preservative-Treated Sawn Timber, Veneer and Plywood.
  - 6.2 Timber shall be seasoned to 30% moisture content or less and shall be Vacuum-pressure impregnated with recognised waterborne CCA preservative. Prior to construction and assembly of the drum.
  - 6.3 Preservative treatment shall comply with the minimum retention specified for Hazard level H5 (outdoor, unpainted, moderate) as set out in table 2 of AS 1604.
7. Drums shall be marked a follows with :-
  - a) As required by AS 2857.
  - b) A description of the construction of the cable and conductors.
  - c) The conductor material and the conductor cross-section
  - d) The number of cores if applicable
  - e) The voltage rating of the cable (if applicable)
  - f) The length of cables or conductor on the drum.
  - g) The gross mass of the drum and contents,
  - h) An arrow with the words "**ROLL THIS WAY**" to indicate the direction in which the drum shall be rolled on the flanges.
  - i) The PNG Power vocabulary numbers as shown on the particular material specification.

**NB:** *Additional marking may be required by the particular material specification. Which should be read in conjunction with this clause?*