

## MATERIAL SPECIFICATION

VOCAB NUMBER	ITEM DESCRIPTION
112050	CABLE, AERIAL BUNDLED, 0.6/1KV 4 CORE 35MM <sup>2</sup> , ALUMINIUM X-90 INSULATION

### SPECIFICATION DETAILS

Aerial Bundled Cable in accordance with AS 3560. - 1991 "Electric Cables – XLPE Insulated -Aerial bundled – For working voltages up to and including 0.6/1KV.

**Conductor:** 3 Core 35mm<sup>2</sup> Aluminium

**Insulation:** X-90

**Packing:** 500 Mtrs

A full technical description of the cable and type test certificates shall be included with the Tender.  
The cable shall be supplied on timber drums in accordance with the attached General Specification.

- **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.

### Drawing References:

### Manufacturer's Product Code:



### STANDARDS COMMITTEE APPROVAL

Approval by Alex Oa  
Chairman

Signature: .....

Date: 8/7/2015

### DATA REVIEW ENDORSEMENT

NAME	TITLE	SIGNATURE	DATE
Grevasias Peni	Team Leader Standards & Materials		29/6/15
G. PENI	/		18/1/19

**SPECIFICATION FOR TIMBER DRUMS FOR INSULATED CABLES AND BARE CONDUCTORS**  
**VOCAB NO: 112050**

1. All drums shall comply with AS2857 "Timber Drums for Insulated Electric Cables and Bare Conductors" and the latest amendments.
2. The net contents of any drum shall not exceed the capacity limits of Clause 2.1.1 of AS 2857 - 1996
3. Spindle holes shall be reinforced with steel plates in accordance with Clause 2.5 of AS 2857 - 1996.
4. All drums other than those with plywood flanges shall be supplied with close fitting timber beaten lagging in accordance with Clause 6.3 of AS 2857. - 1996.
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 of AS 2857 - 1996.
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 requirements of Australian Standard AS 1604 - 1993 "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 a 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 - 1993.
7. Drums shall be marked as follows with: -
  - a). As required by AS 2857. - 1996.
  - b). A description of the construction of the cable or conductors,
  - c). The conductor material and the conductor cross-section,
  - d). The number of cores (if applicable),
  - e). The voltage rating of the cable (insulated cables only),
  - f). The length of cable 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 should be rolled on the flanges,
  - i). The PNG Power's vocabulary number 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.

**GENERAL CONDITIONS FOR PROCE ADJUSTMENT**  
**CONTRACT PRICE AND PRICE ADJUSTMENT**

It is preferred that that tender price be firm for the duration of the contract, and if so this must be stated in the tender. It is preferred that that ender price be firm for the duration of the contract, and if so this must be stated in the tender.

If the tender price is subject to variation for changes in the price of materials and/or labour, it shall be based on the formula:

**Adjusted Price =** Basic Price + (Actual Material Price at date of Dispatch of the Goods from the Manufacturer's Works minus Base Material Price) x "F" + (Actual Labour Rate at date of Dispatch of Goods from the Manufacturer's Works minus Base Labour Rate x "G".

The factor "F" shall reflect the proportion in the ex-works Basic Price of each of the particular materials required for the goods to be supplied under the contract and to which price variation is to be applied. The value of "F" for each of the materials subject to variation shall be stated in the tender.

The factor "G" shall reflect the proportion in the ex-works Basic Price of Labour content in the goods to be supplied under the Contract. The value of "G" shall be stated in the tender.

The sum of the separate factors "F" for each of the materials and "G" for labour shall not exceed 0.85.

The Basic price shall be valid at the closing date of the tender, and shall use material and labour prices ruling not more than 30 days prior to the closing date. The base price for each component to which price variation is to be applied, the applicable date, the index/source/market/indicator and the document of publication of the date, shall be stated in the tender. Where information is not provided in the tender, the prices for the components/s shall be regarded as firm.