



MATERIAL SPECIFICATION

VOCAB. NUMBER.

112048

ITEM DESCRIPTION:

**CABLE, AERIAL BUNDLED, 0.6/1Kv.
2 CORE, 50mm², ALUMINIUM
X-90 INSULATION**

Item Category = B

SPECIFICATION DETAILS.

Aerial Bundled Cable in accordance with AS 3560.1: 2000 "Electric Cables — XLPE. Insulated — Aerial Bundled — For working voltages up to and including 0.6/kV.

1. **Conductor:** 2 Core 50mm² Aluminium
2. **Insulation :** X-90
3. **Packing:** 500 meters per drum.
4. **Standards References:** AS 3560.1: 2000
5. **Unit of Measure:** Meters
6. **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

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. Attention is drawn to the requirements of clause 7

Drawing References:

Manufacturers Product code:

STANDARDS COMMITTEE APPROVAL

APPROVED BY:

Alex Oa
Chairman

SIGNATURE:

DATE: 5/3/15

DATA REVIEW ENDORSEMENT

NAME	SIGNATURE	TITLE	DATE
<i>Grevasius Peni</i>	<i>[Signature]</i>	TL—Standards	24/3/15
<i>[Signature]</i>	<i>[Signature]</i>	/	18/1/19



MATERIAL SPECIFICATION

CABLE DRUM SPECIFICATION

SPECIFICATION DETAILS.

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 timber 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 of AS 2857.
6. Drums intended to be used for underground cables be fabricated from preservative treated timber.
 - 6.1. Preservative treated timber shall comply with the requirements of **AS 1604 "Preservative Treated timber, Veneer and Plywood"**
 - 6.2. Timber shall be seasoned to 30% moisture content or less and shall be Vacuum-pressure impregnated with recognized 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. Drum markings shall be in accordance with AS 2857 with the following information;
 - a) A description of the construction of the cable and conductors.
 - b) The conductor material and conductor cross-section.
 - c) The number of Cores and the Voltage rating of the cable.
 - d) The length of the cable or conductor on the drum.
 - e) The PNG Power Vocabulary number as shown on the particular Material specification.

NB: Additional marking may be required by a particular material specification which should be read in conjunction with this clause.

DATA REVIEW APPROVAL

NAME	SIGNATURE	TITLE	DATE
Grevasius Peni		TL - Standards	4/2/15
G. PENI		/	19/1/19



MATERIAL SPECIFICATION



CABLE DRUM SPECIFICATION

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DATA REVIEW APPROVAL

NAME	SIGNATURE	TITLE	DATE
Grevasius Peni		TL— Standards	22/10/14
G. PENI		/	19/11/19