

MATERIAL SPECIFICATION

VOCAB NUMBER	ITEM DESCRIPTION
111085	CABLE: 24/0.20, 3 CORE, DIA. 0.75MM ² , FLEXIBLE PVC SHEATHED, PVC INSULATED, 0.6/ 1KV GRADE

SPECIFICATION DETAILS

1. GENERAL REQUIREMENT:

- 1.1 The cable shall have PNG Power Limited type approval and the approval number must be quoted on the Tender.
- 1.2 All cables supplied shall comply with the appropriate Australian/ New Zealand Standards as per the attached Addendum I.
- 1.3 Goods meeting other authoritative standards (such as I.E.C. Publication 228) which ensure an equal or higher quality than the standard stated will also be acceptable but subject to PNG Power Limited type approval.

2. SAMPLES

- 2.1 PNG Power Ltd may request the submission of samples for approval prior to bulk production.

3. PACKING

- 3.1 The cables shall be suitably packed in wooden drums having softwood sides and battens. The total weight shall not exceed 900Kg. Preferably drum size to be 0.6m x 1.25m. Drums to be to AS/NZS 2857 – 1986 Timber drums or AS 3983 – 1991 Metal drums, capable of a storage life of four years under tropical conditions.

- **Unit of Measure:** Metre
- **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: 17/1/17

DATA REVIEW ENDORSEMENT

NAME	TITLE	SIGNATURE	DATE
Grevasias Peni	Team Leader - Standards and Materials		6/12/16
G. PENI	/		15/6/20

SPECIFICATION FOR VOCAB: 111085**4. MAKING**

4.1 Each drum shall be clearly marked with the information specified in AS / ANZ 2857 or AS 3983.

5. MATERIAL SPECIFICATION

All cables supplied under this order or tender, as the case must comply with the appropriate approval, material specification or standard by the PNG National Institute of Standards and Industrial Technology and must have been issued with a certificate of suitability, from Approvals Section of Consumer Services Branch of PNG Power Limited. A certificate issued by a Supply Authority in Australia, for specific cable item be produced with sample, when approval is sought for use in Papua New Guinea.

Whilst standards are grouped under certain headings, referral to the **Actual Standard** in most cases, call up other applicable standards.

APPROVAL AND TEST SPECIFICATIONS

- a AS3147 – 1992 - PVC insulated electric cables for working voltages up to and including 0.6/1KV
- b AS3158 – 1994 - PVC Insulated cables and flexible cables for working voltages up to and including 0.6/1KV
- b I.E.C.287 - 1982 - Calculation of the continuous current rating cable (100% load factor).
- d I.E.C.724 - 1982 - Guide to the short-circuit temperature limits of electric cables with rated voltage not exceeding 0.6/1KV.

6. INSULATION AND TEMPERATURE LIMIT

- a. Cables shall have a minimum insulation temperature rating of 75°C or classed as V75 unless otherwise specified.
- b. All cables shall have the correct characteristics for installation under AS3000 – Wiring rules and AS3008 part 1 and 2

7. HIGH VOLTAGE

Cables shall be tested under AS1660 – Methods of test for cables and flexible cords (including conductors, insulation and sheath).

- Part 1 - 1993 Test methods for conductors and metallic components
- Part 2 - 1993 Test methods for insulation, extruded semi conductive screens and non-metallic sheaths
- Part 3 - 1993 Electrical Tests.
- Part 4 - 1993 Complete cables flexible cords.

8. DISTINGUISHING COLOURS OF CABLES

As per Rule 3.2 of AS3000 – 1991, SAA wiring Rules (PNGS1022).