

INFORMAL TENDER ADVERT

NELSON MANDELA BAY MUNICIPALITY BUDGET AND TREASURY DIRECTORATE PURCHASING AND STORES DIVISION

Tender Number: GQ08266135
Buyer: Hafkie, Mr NP [00021193]

Closing Date: 2026-08-24
Closing Time: 11:00 A.M

Telephone : 041 506 7630

REFER ALL ENQUIRIES TO THE BUYER

ITEM	QUANTITY	UNIT	KEY WORD	DESCRIPTION	REQUISITION
1	13.00	DRUM	16mm2 TINNED COPPER CLAD ALUMINIUM ALLOY IN 500MTR DRUMS.	Supply & deliver 16mm2 tinned copper clad aluminium alloy in 500mtr drums. Specifcations available on N.M.B.M. web-site. Sample/Brochure to be provided within 72 hours after request,failing to provide will exclude your submission from further evaluation. For further information please contact : Nigel Adams on Cell.no.079 4900 119. E-Mail:nadams@mandelametro.gov.za	AA166292

THE FOLLOWING CONDITIONS APPLY TO THIS INFORMAL TENDER

- BEFORE COMPLETING THIS FORM, SERVICE PROVIDERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF SPECIFIC GOALS, AS PRESCRIBED IN THE PREFERENTIAL PROCUREMENT REGULATION OF 2022 THE 80/20 SYSTEM APPLIES TO THIS TENDER.
- Acceptance of this tender submission is subject to the General Conditions of Tender and Conditions of Purchase
- Acceptance of this tender is subject to successful registration on the Nelson Mandela Bay Supplier Database.
- For further information to register, please call Compliance Section @ 041 506 3274
- Failure to comply with these conditions may invalidate your tender submission.
- All tender prices should be valid for a minimum period of thirty (30) days from date of tender.
- ALL TENDER RESPONSES SHOULD BE COMPLETED ONLINE AND NO FAX SUBMISSION WILL BE ACCEPTED BY SUPPLY CHAIN UNIT.

Here is a comprehensive tender specification layout tailored for **16mm² Tinned Copper Clad Aluminium Alloy (CCAA) Concentric SNE Cable**.

Sample to be provided before awarding of tender

Delivery timeframes to be specified.

Make of cable to specified.

TECHNICAL SPECIFICATION FOR AERIAL SERVICE CONNECTION CABLE

16mm² Tinned Copper Clad Aluminium Alloy (CCAA) Concentric SNE Cable

1. Scope

This specification covers the design, manufacture, testing, supply, and delivery of 16mm² Tinned Copper Clad Aluminium Alloy (CCAA) concentric cables. The cables are intended for overhead aerial house service connections to prevent electricity theft and material vandalism.

2. Applicable Standards

The cable supplied shall comply with the latest editions of the following standards:

- **SANS 1507-6:** Electric cables with extruded solid dielectric insulation for fixed installations.
- **SANS 1574:** Electric cables - Flexible cords and flexible cables.
- **NRS 049:** Regulatory standard for electricity supply housing service cables.
- **ISO 9001:** Quality management systems requirements

3. Operating Conditions

The cable shall be suitable for continuous operation under the following environmental conditions:

- **Ambient Temperature:** -10°C to +50°C
- **Maximum Conductor Temperature:** 90°C (under normal continuous load)
- **Maximum Short-Circuit Temperature:** 250°C (for a duration of 5 seconds)
- **Installation Environment:** High UV exposure, coastal/corrosive atmosphere, and high risk of cable theft.

4. Cable Construction & Materials

4.1 Phase Conductor

- **Size:** 16mm² nominal cross-sectional area.
- **Material:** Tinned Copper Clad Aluminium Alloy (CCAA).
- **Anti-Theft Property:** The copper must be metallurgically bonded to the aluminum core to ensure it cannot be mechanically separated or easily smelted for scrap value.
- **Insulation:** Cross-linked Polyethylene (XLPE), colored red or black as specified.

4.2 Concentric Conductor (Neutral / Earth)

- **Configuration:** **Separate Neutral Earth (SNE)]** configuration.
- **Material:** Alternating strands of tinned CCAA and bare/tinned wire arranged concentrically around the insulated phase conductor.
- **Coverage:** Total coverage must prevent easy access to the phase conductor without tripping upstream protection devices.

4.3 Outer Sheath

- **Material:** Linear Low-Density Polyethylene (LLDPE) or UV-stabilized PVC.
- **Color:** GREY
- **Properties:** Highly resistant to ultra-violet (UV) radiation, weathering, and abrasion during installation pulling.

6. Testing and Inspections

- **Routine Tests:** The manufacturer must conduct routine tests on all finished drums in accordance with SANS 1507-6.
- **Type Test Certificates:** Bidders must submit valid type test certificates from an accredited independent laboratory (e.g., SABS) with their bid.
- **Site Inspection:** The purchaser reserves the right to inspect manufacturing facilities and witness routine testing before shipping.

7. Packaging and Marking

- **Cable Marking:** The outer sheath must be embossed/printed at 1-meter intervals with: *Manufacturer Name, "16mm² Tinned CCAA AIRDAC", Voltage Rating, Year of Manufacture, and Sequential Length Marking.*
- **Drums:** Cable shall be delivered on non-returnable wooden or steel drums, securely treated against pests.
- **Drum Ends:** Both ends of the cable must be sealed with watertight heat-shrinkable plastic caps to prevent moisture ingress.