

Technical Bulletin

TB 351B – New LV Underground Al Cables for Street Lighting

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Purpose

This technical bulletin informs our internal staff and Authorized Service Providers (ASPs) about the introduction of a new low-voltage, underground aluminum cable for street lighting columns. Key updates from the original TB351 are highlighted in grey including the addition of 2 core option to the AML.

Background

Endeavour Energy has been facing an escalating challenge due to a surge in cable theft across the network. Copper found in cables, being a high-value commodity, has become the target of thieves, significantly impacting the reliability of the existing electrical infrastructure. This has resulted in substantial operational and maintenance costs, with frequent disruptions in the street lighting system leaving public spaces in darkness.

Actions

To mitigate these challenges and to ensure a seamless power supply, Endeavour Energy is introducing a new low-voltage aluminium cables specifically for use in street lighting reticulation. This addition is intended to discourage theft of street lighting cable due to aluminium being of a lower-value commodity. This aluminium cable will be made available as an alternative to the existing copper cables. Copper cables may continue to be used for street lighting reticulation when required. The following materials are now approved for use in the network:

Item Description	Material Number
4 core 25mm ² Al, XLPE / PVC Cable	1000009490
2 core 25mm ² Al, XLPE / PVC Cable	1000010378

Where incidents of copper cable theft occur on the network, aluminium cables shall be used for replacement. In addition, the following label shall be installed on columns and pillars with the aluminium cable to provide notice and deter theft. Labelling shall not be required for new installations.

Item Description	Material Number
Sign, 150mm X 70mm, Matt Lamination-Notice "Notice – Aluminium Cables Installed In This Area"	1000010010

Implementation

The contents of this Technical Bulletin is applicable to all new and existing street lighting installations.

Impacted Standards

The contents of this technical bulletin will be included in the next update of:

- LDI 0001
- AML

Contacts

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