



Technical Bulletin

TB 0288 – Changes to 11/22kV Underground Cables Specification

Purpose

This technical bulletin is to update the content of the 11/22kV cable specification.

Background

The current NSW specification for 11/22kV polymeric Insulated underground cables, specifies the requirement of Endeavour Energy Medium Voltage cables. The following changes have been made to the Specification for requirement that were in excess of AS/NZS 3808:2000 requirements.

Changes to the 11/22kV Cable specification

Clause 5.2.3 - Insulation

The following statement is no longer required:

“The average insulation thickness of the cables shall not fall below the nominal insulation thickness.”

The insulation thickness will be set based on the nominal thickness and must not fall below the minimum thickness stated. The average insulation thickness is no longer required for this particular requirement

Clause 5.2.6 – Metallic Screen

The following statement regarding cross-sectional area of the metallic screen has now been reworded to allow the nominal diameter in calculations in place of the actual diameter.

Original wording

“The total cross-sectional area determined from the actual diameter of each wires shall not be less than the values specified in APPENDIX A. The cross-sectional area of the wire screen specified in each item listed in APPENDIX A of this specification is the actual value.”

New wording

“The screens shall be of a gross cross-sectional area not less than the wire screen specified in each item listed in APPENDIX A of the specification. Nominal diameter of each wire is accepted for calculating the gross cross-sectional area.”

Clause 5.5.3 – Sample Tests

The 2 sample tests listed below in addition to Table 3.1 of AS1429.1 are no longer required to be performed during sample testing:

1. Oversheath – Shrinkage (HDPE sheath)
2. Cable – Circularity of the outside surface

Implementation

Cables manufactured to the old requirements remain valid for use in the network, however cables manufactured and approved to the new requirements can be used from the issue date of this technical bulletin.

Impacted Standards/Specifications

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

- NNSW – 11kV and 22kV polymeric Insulated underground cables