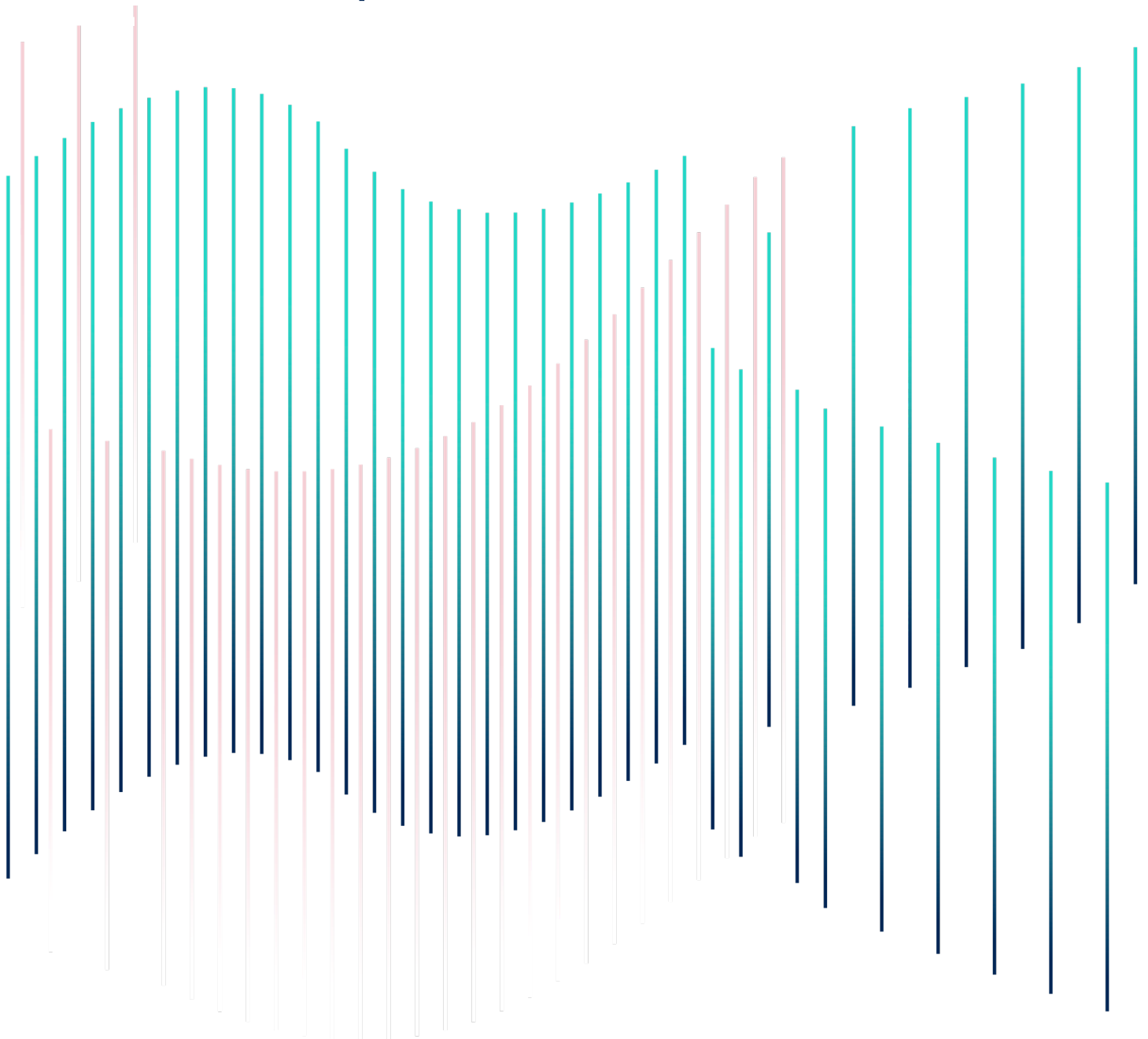




Appendix to ENA Engineering Recommendation G81 Part 2 & 5

Material Specification





1. Document Control

Version:

Ref	Author	Date	Reason
1.0	Yuan Zhuang	May 2025	Initial release

Sign off:

Role	Name	Comments	Date
COO	Jeremy Wright		



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3. Introduction

This document is the Aurora Utilities (AUL) Appendix to the ENA Engineering Recommendation G81 Part 2&5 -Material Specification for new housing development installations and commercial/industrial installations

This document should be read in conjunction with ENA EREC G81 Parts 1 through 6 and provides specific information to be used in the design and planning of AUL IDNO networks.

This document should be read in conjunction with the other AUL Design Policy and Standards and Health, Safety, Environment and Quality Policy and Standards.

The principles of any design are to be agreed with AUL principles from the outset of the design process and should comply with this document and the G81 documentation of the host DNO where applicable.

This document contains a summary of the information contained in AUL product specification.

Please note that AUL is unable to provide copies of external documentation, standards and specifications referenced in this document, but copies may be obtained from the relevant issuing body (such as the British Standards Institution (BSI) or Energy Networks Association)

This appendix to ENA EREC G81 Part 2&5 covers the materials specification for new low voltage, Housing estate and industrial and commercial connections to the electricity distribution network of AUL.

This document provides details of AUL approved range of cables, plant, equipment and auxiliary items used to construct distribution assets for connection the distribution network. Only equipment approved by Host DNO's and listed in this document shall be used to construct electricity networks, substations and services for adoption by AUL in its distribution networks.

4. Acceptable equipment

For all new connection work, the approved ICP installer must provide AUL with a complete list of equipment to be installed before purchasing. The Engineer will then review the proposal and formally accept or reject it within 10 working days.

Where AUL's requirements are not specified in this document, the approved installer must consult the AUL design team to obtain approval before purchasing and installing the equipment.

This document lists unapproved cables, plant, equipment, and auxiliary items that cannot be used to construct distribution assets for connection to the distribution network.

AUL will accept cables, plant, equipment, and auxiliary items approved by the local Host DNO. If a specified item cannot be used for a valid reason, AUL may approve an alternative item accepted by another DNO.

Material specifications for all equipment used in AUL must be submitted at the design approval stage. Manufacturer drawings are required for all standard and bespoke equipment.

Requests for additional items must be submitted for consideration and are subject to AUL's approval before use. Approved items will be added to the list below.



Items listed in this section may not be approved by Host DNOs but are acceptable for use in AUL.

Item	Suppliers	Comments
2,000 kVA 11 / 0.433 kV transformer	Schneider Electric	For single customer site
3,200 A transformer-mounted LV cabinet c/w 1 x 3,200 A metered ACB	Schneider Electric, Lucy Electric	For single customer site
2500 Amp LV Feeder Pillar	Lucy Zodion	For high power EV charger
33kV Containerised substation		Approved by SSEN in SHEPD area

5. Unacceptable equipment

Items of equipment in the ENA National Equipment Defect Reporting Scheme, will be subject to approval.

- Items listed in Suspension of Operational Practice (SOP), will be subject to rejection until the full investigation has been carried out.
- It is preferred equipment in the Dangerous Incident Notification (DIN) list is subject to a risk assessment before considered to be installed on AUL.
- It is preferred equipment in the National Equipment Defect Report (NEDeR) list is subject to any remedial action stated in their report.

6. Preferred Suppliers

Below is a list of our preferred suppliers for your information.

Item	Suppliers
Cable	Prysmian, Nexans
Cable Joint	Tyco
Ducting	Plaspipes, Pia Tree, Wolseley
Duct Sealing	CSD Sealing, Flioform
Earthing Materials	Alcomet, Cable Services, Jointing Technologies
GRP	Envico Engineering, MCL Utility, Morgan Marine
LV Pillar	Schneider Electric, Lucy Electric
Protection	Schneider Electric, Terasaki Electric, ABB
RMU	Schneider Electric, Lucy Electric
Transformer	Schneider Electric, Wilsons Power