



Electropar Limited trading as Preformed Line Products

Client Number 2902

HV Cable joint testing

PO Box 58623, Botany, Auckland, 2163
35 Lady Ruby Drive, East Tamaki, Auckland, 2013

Telephone 09 274-2000

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Authorised Representative

Mr Brett Hewitt
Managing Director

Programme

Electrical Testing Laboratory

Accreditation Number 775

Initial Accreditation Date 29 October 2001

Conformance Standard

ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories

Laboratory Services Summary

3.35 Cables and Feeders

Key Technical Personnel

Mr Ravinder Singh	3.35
Mr Craig Spicer	3.35 [(I), IEC standards only]
Mr Nick Waijenberg	3.35

Operations Manager Authorisation:		Issue 24	Date: 13/09/23	Page 1 of 2
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Electrical Testing Laboratory

Accreditation Number 775

SCOPE OF ACCREDITATION

3.35 Cables and Feeders

(l) Electrical tests on fittings

Heat cycle tests and short circuit tests in support of type testing of cable joining equipment of Class A and B in accordance with IEC 61238-1, IEC 61284, BS 3288-1, AS 1154.1, AS1154.3 and IS 2121 (part 4).

Current cycle tests on electrical connectors of Classes AA, A, B, C in accordance with ANSI C119.4 but excluding CCST tests.

Short circuit (fault current) tests in accordance with IEC 61284 where agreed with the customer

Heat cycle tests in accordance with IS 2486 (part 1) and IS 2121 (part 2)

Temperature rise test in accordance with ANSI/NEMA CC 1-2009 Electric Power connection for substations. Test Method 3.1 Temperature rise tests (maximum tests current 4000 A)

(m) Mechanical tests on fittings

Tensile tests on conductor fittings and connections up to 400 kN force in accordance with the following standards:

- ANSI C119.4 Connectors for use between Al-to-Al and Al-to-Cu conductors designed for normal operation ≤ 93 °C and Cu-to-Cu conductors designed for normal operation ≤ 100 °C (Clause 7.3)
- AS 1154.1 Insulator and conductor fittings for overhead power lines – Part 1: Performance, material, general requirements and dimensions
- AS 1154.3 Performance and general requirements for helical fittings
- IEC 61238-1 Compression and mechanical connectors for power cables for rated voltages ≤ 30 kV ($U_m = 36$ kV) – Part 1: Test methods and requirements (Section 7)
- IEC 61284 Overhead lines – Requirements and tests for fittings (Section 11 mechanical tests excluding clamp bolt tightening tests in 11.8)

Operations Manager Authorisation:		Issue 24	Date:13/09/23	Page 2 of 2
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