

Underground Low Voltage Distribution Circuit Test Certificate

Certify where required that the information written on this Certificate (and its attachments) is a true and correct record of the works undertaken and that the equipment is ready and safe to be commissioned.

Retain a copy of this Certificate (plus its attachments) on your files and send all of the originals to Powerco as prescribed in *360S014 Electricity As-Built Reporting Standard*.

Complete this form whenever a new underground circuit is built or reconfigured

Job Name		Contractor Name		
No / Street / Road		Between/Vicinity		and
CIWR No.			Town/District	
SAP W/O No.			Contractor Ref. No	
			Date Completed	

a) As-Built Information Records have been uploaded to SAP Confirmed ✓

360S014EB As-built Electrical Distribution Record	
360S014EL As-built Cable Test Report	
All circuits correctly labelled per 393S004 Labelling and Safety Signage Requirements Standard	

b) Insulation Resistance Tests (with all service fuses and loads removed)

	Measured Ohms				Acceptable Results	Confirmed ✓
	Circuit	Circuit	Circuit	Circuit		
R to B+W+N+E	MΩ	MΩ	MΩ	MΩ	New cable - greater than 100 MΩ	
W to R+B+N+E	MΩ	MΩ	MΩ	MΩ	Aged cable - greater than 1 MΩ	
B to W+R+N+E	MΩ	MΩ	MΩ	MΩ	New cable - greater than 10 MΩ	
Pilot to Earth (where applicable)	MΩ	MΩ	MΩ	MΩ	Aged cable - greater than 1 MΩ	
Streetlight to N + E (as applicable)	MΩ	MΩ	MΩ	MΩ	New cable - greater than 10 MΩ	
Sheath Integrity (applicable to neutral screened or armoured cables only)						
Screen to Local Earth	MΩ	MΩ	MΩ	MΩ	New cable - greater than 10 MΩ Aged cable - greater than 1 MΩ	

Note: The cable insulation resistance shall be measured with a 500 volts DC Insulation Tester ("Megger" or similar. The reading should be recorded at a time when either the indicating pointer remains stationary or the first digit to the left of the decimal point on a display stabilises.

c) Phase and Neutral conductor confirmation Confirmed ✓

Each phase conductor is securely connected to the correct transformer phase via HRC fuses	
Each neutral conductor is securely conductor to the transformer neutral/earth bar	

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d) End of Line Earth checks

Visual and physical check to confirm that neutral is securely connected to a single driven earth rod	Confirmed ✓
Circuit Name:	

e) Phase Rotation

Confirmed ✓

Phase rotation checked where the new LV circuit is a Tee off and cannot be interconnected to an adjacent circuit	
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f) Phasing Out Checks Across Parallel Points (at service/link box or underground/overhead connection)

Where the LV circuit can be connected to a neighbouring network/s circuit/s by means of an existing switch or other device - e.g., Stangers or links, a phasing check, across each paralleling point, must be carried out to ensure that the phasing of the new works is consistent with the neighbouring network/s and is/are safe to parallel.

After confirming that both circuits are alive, measure across the open paralleling device:

Measured points	Measured Volts				Acceptable Results	Confirmed ✓
	Circuit _____ to Circuit _____	Circuit _____ to Circuit _____	Circuit _____ to Circuit _____	Circuit _____ to Circuit _____		
R1 to R2	V	V	V	V	Less than 10 V	
W1 to W2	V	V	V	V	Less than 10 V	
B1 to B2	V	V	V	V	Less than 10 V	
Neutrals securely connected (✓)						

g) Powerco owned Pilot Wire Circuit Checks (where applicable)

Pilot wire - N	Measured Volts				Acceptable Results shall be between 238 to 244 Volts	Confirmed ✓
	Circuit 1	Circuit 2	Circuit 3	Circuit 4		
Water Heating - N	V	V	V	V		
Streetlight - N	V	V	V	V		

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h) Loop Impedance Tests: Measured at the end of each circuit or beyond where connections have been altered (Refer 220S047 Loop Impedance Testing Standard) Indicate Test Position e.g.: End of cct., at service pillar 123456 etc.

Circuit 1: Test Position		Circuit 2: Test Position		Circuit 3: Test Position		Circuit 4: Test Position		Acceptable Impedance results shall not exceed maximum values for the size of service fuse connected to the line. Refer to 220S047, Table 1
Measured Impedance	Voltage							
R to W	Ω	V	Ω	V	Ω	V	Ω	V
R to B	Ω	V	Ω	V	Ω	V	Ω	V
W to B	Ω	V	Ω	V	Ω	V	Ω	V
R to N	Ω	V	Ω	V	Ω	V	Ω	V
W to N	Ω	V	Ω	V	Ω	V	Ω	V
B to N	Ω	V	Ω	V	Ω	V	Ω	V

i) Testing Attestation

I certify that the work to which this certificate applies has been done lawfully and safely and that the information in this certificate is correct and that the equipment is safe to energise

Print Name		Signed	
Date		ISN ID Number	

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Document Control

Version	Date	Change
3	1st August 2025	Authorised by and Document Owner change Removed all references to 360S016 Guide to Recording Electricity Assets (superseded standard)