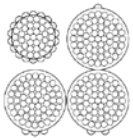
DISTRIBUTION COMMISSIONING TEST SHEET – LOW VOLTAGE AERIAL BUNDLED CONDUCTOR
HPC-4DL-07-0014-2014

This commissioning test sheet covers the checking and commissioning of all replacement or new installations of low voltage aerial bundled conductor.



SAFETY: At all times maintain suitable clearance to all other electrical equipment.

DATE:		**Project No.**		**Name of Officer**	
Location:					
Conductor Span	**From:**		**To:**		

1. INSTALLATION AND CONSTRUCTION CHECKS

Inspect the constructed line and carry out the following checks.	1	Check that the installation complies with the distribution construction standards and applicable design drawings.	☐
	2	Check the supply to the aerial bundled conductor line, that it is switched off and isolated as per switching sheet and permit.	☐
	3	Confirm with approved testing device that the line is de-energised.	☐
	4	Check the conductor arrangement and ensure correct clearances from the ground, buildings and trees.	☐
	5	Wherever possible, check that there is no physical damage to the conductor or equipment and that all is secured.	☐
	6	Check that the structures are clearly numbered and labelled correctly.	☐
	7	Check that all terminations and connections are completed correctly and secured.	☐
	8	Check that Public Safety has been considered (e.g. trip hazards removed, anti-climbing devices applied where applicable).	☐

2. CONDUCTOR TENSION CHECK

Check the tension of the conductors as per the conductor tension table and record the details.	1	Date tensioned	DD/MM/YYYY	Tension correct ☐
	2	Conductor size	150 mm² ☐ 95 mm² ☐	
	3	Ambient temperature	°C	
	4	Average bay length	m	
	5	Tension (dynamometer)	kg	

3. CONTINUITY TEST

	Test Connection	Resistor Values	Test Results
Using the three (3) phase resistor box in conjunction with a 500 V insulation resistance tester to identify the correct cable end and phasing.	Red phase to neutral	MΩ	MΩ
	White phase to neutral	MΩ	MΩ
	Blue phase to neutral	MΩ	MΩ

4. INSULATION RESISTANCE TEST

	Test Connection	Minimum Values	Test Results
Use a 500 V insulation resistance tester for 1 minute between each phase conductor and between phase and neutral conductor. Values greater than 100 MΩ for new cables and 10 MΩ for existing cables are acceptable. Tests may not be practicable for existing cables because of connected services. (Note: 1,000 MΩ = 1 GΩ)	Red phase to white phase	>100 MΩ (new) or >10 MΩ (existing)	Ω
	White phase to blue phase		Ω
	Blue phase to red phase		Ω
	Red phase to neutral		Ω
	White phase to neutral		Ω
	Blue phase to neutral		Ω
Confirm cables have been discharged after each test.			☐

5. LINE HARDWARE

Check the clearance of the conductors, poles and stays (if applicable)	1	Check that the installation (poles, line hardware and other equipment) complies with the distribution construction standards, applicable design drawings and there is no sign of damage.	☐
	2	Check that the voltage rating of the line hardware matches the system voltage (if applicable).	☐
	3	Check that all connections are correctly placed and are secure.	☐
	4	Check that no loose or unconnected items exists on the line.	☐

6. ENERGISATION

Energisation of the low voltage overhead line	1	Ensure that all short-circuiting equipment has been removed (if applicable).			☐
	2	Check that the low voltage fuses are correct (if applicable). Refer to Table 6-1 in DDM Vol 2 (HPC-5DC-07-0002-2012) or 'LV Mains Protection' in the System Rules (HPC-9DJ-01-0002-2015)			☐
	3	Energise the circuit as per the low voltage switching program	Number		☐
	4	Conduct a service connection test on all installations where the service connections have been disturbed.			☐
	5	If the LV network is to be interconnected with another LV network, phase out at the normally open point; otherwise phase out as required.			☐

7. OPERATIONAL HANDOVER

The commissioning officer must ensure that all checks are completed and the test results comply with the minimum standards.

I hereby certify that all sections have been completed with satisfactory results and transfer responsibility to the network operating authority. This equipment is ready to be **SAFELY** energised.

Commissioning Officer: _____ Pay Number: _____

Signature: _____ Date: DD/MM/YY Time: HH:MM

1. Ensure the work area is left tidy with no hazards to the public.
2. Hand over responsibility to the operating authority
3. Return this sheet to the project/working file as a record of commissioning and as a document required for the Handover Certificate.