

Document Management CS# 3909053

Project No.

DISTRIBUTION COMMISSIONING TEST SHEET – LOW VOLTAGE CABLES AFTER REPAIR OR EXTENSION, WITHOUT DISCONNECTION OF SERVICES

HPC-4DL-07-0035-2016



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This commissioning test sheet covers the minimum testing requirements for low voltage cables prior to energisation after repair of an obvious fault, or after the cable has been extended. The insulation resistance test is applied to new cable sections only, prior to making joints.

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DATE:

This sheet should be used in conjunction with Field Instruction 4.6. At all times maintain suitable clearance to all other electrical equipment and verify planned escape routes. If any part of the cable is in a public area and cannot be properly barricaded, additional personnel should stand guard at these areas during tests and commissioning, and a two-way radio must be used for communication. Cable testing should not be done in zone 1 hazardous areas (e.g. around petrol stations and fuel storage areas), refer to Field Instruction 4.12.

Name of Officer

Job

Location

						Location			
Loca	tion of Cable:	From:			То:				
1.	1. CABLE DESCRIPTION								
Rate	d Voltage	V	Length of cable (approx.)	m	Cable size	mm	Stock code		
2.	2. VISUAL INSPECTION AND SAFETY CHECK								
1	Check that the	ne cable under test is correctly installed and that there is no damage that would affect cable performance, or the performance of attached equipment.							
2	Isolate supply to the cable.								
3	Perform 'Test I	m 'Test Before You Touch' as per Field Instruction 2.25 to prove cable is de-energised (with approved testing device as per Field Instruction 2.26).							
4	Check that the cable is clearly marked with each phase colour and labelled (if applicable).								
3.	3. INSULATION RESISTANCE TEST FOR NEW CABLE SECTIONS, PRIOR TO JOINTING							•	
		Tes	st Connection	Mini	Minimum Values Test Results				
				Red phase to white phase (@ 1 kV)		kV)	>10 MΩ		Ω
Use a 500 V/1 kV insulation resistance tester for 1 minute between each phase conductor and between phase and neutral conductor (never use a 5 kV insulation tester for this test). Values greater than 10 M Ω for new cables are acceptable. (Note: 1,000 M Ω = 1 G Ω)			White phase to blue phase (@ 1 kV)		1 kV)	>10 MΩ		Ω	
			Blue phase to red phase (@ 1 kV)		V)	>10 MΩ		Ω	
			Red phase to neutral (@ 500 V) >10 MΩ			Ω			
			White phase to ne	eutral (@ 500 '	V)	>10 MΩ			
			Blue phase to neutral (@ 500 V))	>10 MΩ		Ω	
Conf	rm cables have	been discharged afte	er testing.	•		·	-		
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4. CABLE TERMINATION AND JOINT CH	ECKS				
Ensure all cable connections, joints and terminations are made, and tightened.					
Ensure all cables are clearly and correctly labelled (if applicable).					
5. BURIAL OF JOINTS					
Ensure all joints have been secured and cover	ed with 200 mm	of clean dry fill, before energising circuit .			
6. SERVICE CONNECTION TESTS					
Following energisation, do two Service Connection Tests, either side of joint, to check joint integrity. Use SCT form CS10# 2745508	SCT 1	Service Address:			
	SCT 2	Service Address:			
		pleted and the test results comply with the minimum standards. isfactory results and transfer responsibility to the network operating authority. Pay Number:			
Signature:		· ·	/YY Time: HH:MM		
	ng authority g file as a recor	e public. d of commissioning and as a document required for the Handover Certificate. PRAWINGS AND DATASHEETS TO THIS SHEET AND SEND TO RELEVANT ASSET MANAGER			