DISTRIBUTION COMMISSIONING FORM (DCF) 1.3 - Low voltage aerial bundled conductor

Purpose: This instruction covers the testing and commissioning of replacement or new installation of low voltage aerial bundled conductor.

For more information refer to the *Distribution Commissioning Manual* (EDM 34137510)

Parameters

Ensure that no customer supplies will be energised during the commissioning/connection process.

Address/Pole No:			Work Packag	e No:	
SPIDAWeb Pick ID/Pole No(s):	From			Cal Date:	

1. Conductor Tension Test

	Date tensioned				
Tension the conductors as per the conductor tension table and record the details.	Conductor size	150 mm	95 mm		
	Conductor temperature			°C	Conductors at correct tension
	Average bay length	metres			
	Tension (dynamometer)			kg	

2. Continuity Test

Use a resistor box and 500 Vinsulation resistance	Test connections	Test results	Resistor values
	Red to neutral	Ω	Ω
tester to positively	White to neutral	Ω	Ω
distinguish cable ends.	Blue to neutral	Ω	Ω

3. Insulation Resistance Test

	Test connections	Test results	Acceptable values
Use a 500 V insulation resistance tester for a minimum of 1 minute.	Red to white	Ω	
	White to blue	Ω	100 M Ω or higher for new cables
	Blue to red	Ω	Tor new capies
	Red to neutral	Ω	
	White to neutral	Ω	10 M Ω or higher for aged cables
	Blue to neutral	Ω	aged cables

4. Installation and Construction Checks

Checks	Check that the construction complies with the distribution construction standards and applicable design drawings.	
	Check that the structures are numbered and labelled correctly.	
	Check the conductor arrangement and ensure correct clearances from the ground, buildings and trees.	
	Check the conductor for damage and ensure it is secured correctly.	
	Check that all Insulation piercing connectors (IPC), line taps and neutral connections are completed correctly and secured.	
	Check that all the groundwork is completed.	



Date published: 27/05/2024 Published Version: EDM 21583726
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5. Energisation

	Ensure that all short-circuiting equipment has been removed, and EAP cancelled	
	Check that the low voltage fuses are correct rating (if applicable).	
	Energise the circuit in accordance with the low voltage switching program.	
Checks	If the LV network is to be interconnected, phase out across open points; otherwise phase out as required.	
	Record the switching program number.	
	Conduct a service connection test on all installations where the service connections have been	
	disturbed.	

6. Handover

I hereby certify that all items have been completed with satisfactory results and transfer control to the network operating authority.				
Commissioned by		BNA		
Signature		Date & Time		

- 1. Ensure the work area is left tidy with no hazards to the public.
- 2. Hand over responsibility to the operating authority.
- 3. The completed form must be returned to the project file/work pack.

