

✓ NDT & Inspection

✓ Hydrostatic testing

✓ Weld qualification

Mechanical testing

- Metallurgical services
- Chemical analysis & PMI
- ✓ Concrete testing

Pressure plant inspection

## **GENERAL TEST REPORT**

Report Number	LS21-2957 LT	Test Date	29/12/2021		
Customer	The Trustee for Blitz Systems Unit Trust				
Customer Address	55 Pendlebury Road, Cardiff NSW 2285				
Requested By	Reuben Allbut	Purchase Order	Reuben		
Accredited Laboratory	LMATS Sydney Laboratory				
Job Location	6 Techno Park Drive, Williamstown VIC 3016				
Job Description	Load testing of 4 off Wire Lock Arrangements				
Identification	With Lock 1, With Lock 2, Without Lock 1, Without Lock 2				
Material Specification	Not Specified				
Test Specification	Client's specified activities – Report findings				
Test Method	AS 1391-2020 as a guideline				
Equipment Data	50kN UTM Machine				
Technical Data	The supplied wire lock was held in a Universal Tensile test machine. A preload of 100N was applied to the crimped cable and the distance between both the connectors was measured as reference. The tensile load on the crimped cable was then gradually increased at a constant rate.				
Evaluation Data	Refer to Table 1				
Test Technician	Muhammad Muflih Mandara				
Remarks	Photographs of the samples before and after testing are located on the following page.				
Test Results	Refer to Table 1				

Table 1 Load test results

Sample ID	Max Load (kN)	Failure Location
With Lock 1	2.90	In wire
With Lock 2	2.93	In wire
Without Lock 1	2.77	In wire
Without Lock 2	2.66	In wire

LMATS is accredited for compliance with ISO/IEC 17025 – Testing Accreditation Number 15840

Signature

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Muhammed Sabah 29/12/2021

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	Newcastle	🖀 02 4906 8652	2/22 Ironbark Close Warabrook NSW 2304
	Perth	🖀 08 9418 6380	3/52 Cocos Dr, Bibra Lake WA 6163





Figure 2: With lock 1 failure location



Figure 3: With lock 2 mounted in the UTM before test

Figure 4: With lock 2 failure location





Figure 5: Without lock 1 mounted in the UTM before test

Figure 6: Without lock 1 failure location



Figure 7: Without lock 2 mounted in the UTM before test

Figure 8: Without lock 2 failure location