

Report Number	BCSR - 0001	Date of Issue	28th September 2016
Scope of this Work	Static test on strain clamps. Static and destruction test suspension clamps.	Client Contact	Phillip Hogg TranNet LTD PO Box 39383 Howick Auckland New Zealand
Location at which the work was conducted	Cookes Rigging Loft Auckland	Application	Strain and suspension clamps on 35mm <sup>2</sup> and 95mm <sup>2</sup> cables

Technician	Jan Jacobs	Length Examined	Not Applicable
Date of Examination/Inspection	28th September 2016	Total Length of Rope at time of Examination	Not Applicable

Summary of static load test on suspension clamp

Cookes Services carried out static load test on customer supplied suspension clamp with 95mm<sup>2</sup> cable as per AS 3766 - 1990.

Approach

The test assembly was prepared as Fig 4.1 and section 4.5.2 without the thin layer of metal foil and a high voltage test was not done. The load was applied as per Table 4.1 section 2 (0.6 X NCT for 12 hours). The bolt was torqued to 21.4 Nm.

Summary of Findings

The test Clamp was compared with a new clamp and photos take showing the deformation of the test unit see below photos

Additional Information / Picture(s)









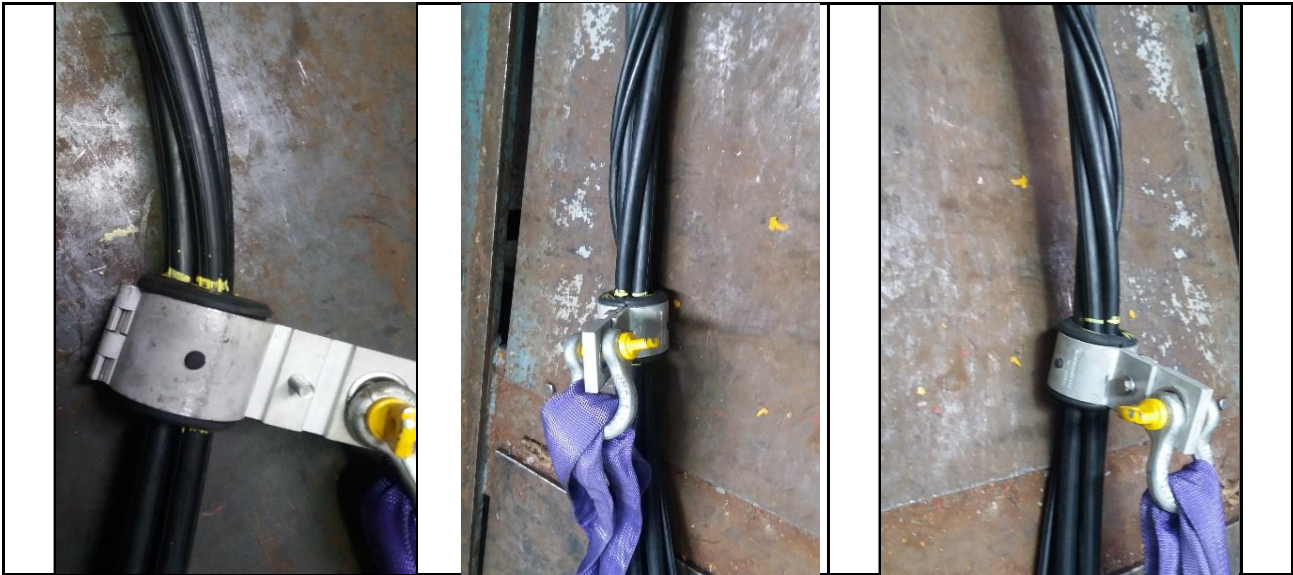




	
<b>Conclusion</b>	
Deformation was noted on the insulation and on the clamp as seen in attached photos. The clamp was still able to assembled and disassembled in a normal manner	

Summary of slip test on suspension clamp
Cookes Services carried out static load test on customer supplied suspension clamp with 95mm <sup>2</sup> cable as per AS 3766 - 1990.
Approach
The test assembly was prepared as Fig 4.2 and section 4.5.11. The load was applied as per Table 4.1 section 4. The bolt was torqued to 21.4 Nm.
Summary of Findings
There was no slippage noted or measured on the low test load. On the 2nd test the high load slippage was noted from 240kg's down to 210kg's where it seemed to settle down.
Additional Information / Picture(s) Low load test





Additional Information / Picture(s) High load test









<b>Conclusion</b>
Deformation was noted on the insulation and on the clamp as seen in attached photos. The clamp was still able to assembled and disassembled in a normal manner
<b>Summary of load failing test on suspension clamp</b>
Cookes Services carried out static load test on customer supplied suspension clamp with 95mm <sup>2</sup> cable as per AS 3766 - 1990.
<b>Approach</b>
The test assembly was prepared as Fig 4.3 and section 4.5.13. The load was applied as per Table 4.1 section 4. The bolt was torqued to 21.4 Nm.
<b>Summary of Findings</b>
the load was slowly applied until the clamp failed see attached graph and photos
<b>Additional Information / Picture(s) Low load test</b>







**Conclusion**

The clamp destructed on the hinge as seen in attached photos and deformation was noted on the insulation

Signed Bridon Technician :		Signed Bridon Authoriser:	
Date :	29th September 2016	Date :	

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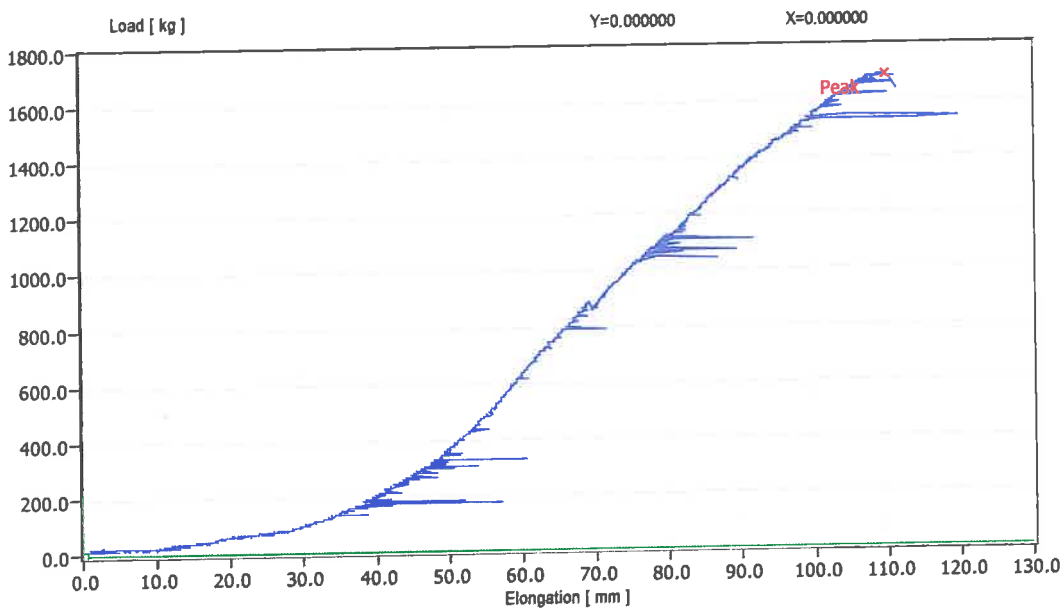
Freephone: 0508 274 366

Email: sales@bridoncookes.co.nz

### Tension Testing Report

1.Certificate No. : TNABC SC4-95 - 95MM @ SUSPENSION CLAMP DESTRUCTION 1  
2.Customer : TRANSNET  
3.Operator : JAN JACOBS  
4.Date : 9/28/2016  
5.Time : 12 PM  
6.Temperature:  
7.Speed :20.00  
8.Test Style : Break Test  
9.Standard : AS3766  
10.Specimen : TNABC SC4/95 -95MM SUSPENSION 1 CLAMP DESTRUCTION  
11.Spec.Length: 3.00 m  
12.Notice :  
13.FileName : C:\Documents and Settings\Administrator\My Documents\Test Certs\SEPTEMBER 2016\@test-2.tst

Item	Load(kg)	Elongation(mm)
Peak	1694.9	110.02



The test performed on the item listed on this test certificate is in accordance with the Relevant Standard, Approved Code of Practice and BridonCookes Standard Operating Procedures.