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Global Circulation Laboratory Test Report

For Global Distribution

UL 486A-486B Static Heat Sequence

CAT NO: KASB39U2N, Shear Bolt Connector Terminal



CABLE: 646.4 DLO Cu

GCR23-02-01 Rev. A

<u>Requested by / Date:</u> A Stokes 2-Feb-23	<u>Authorized by / Date:</u> R Robicheau 1-Feb-23	<u>Completed by / Date:</u> S Tay 6-Feb-23
<u>Engineering Approval / Date:</u> A Stokes 7-Feb-23	<u>Marketing Approval / Date:</u> M Bailly 7-Feb-23	<u>Laboratory Approval / Date:</u> M Jones 6-Feb-23



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PURPOSE OF TEST:

To determine if the KASB39U2N Shear Bolt Connectors installed with 646.4 Cu DLO can meet the requirements of UL 486A-486B Static Heating Sequence tests.

TEST REQUESTED:

UL486A -486B Static Heat Sequence

TEST COMBINATIONS:

Sample #	Connector	Conductor	Torque
1	KASB39U2N	646.4 Cu DLO	Break Away
2			
3			
4			

CONCLUSIONS:

KASB39U2N Shear Bolt Connectors installed with 646.4 Cu DLO met the requirements of UL 486A-486B Static Heating Sequence tests.



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ENGINEERING COMMENTS:

This test was submitted to determine if the KASB39 model shear bolt connector could meet the UL486A-486B static heating sequence requirements when installed with 646.4 Cu Flex (DLO) conductor. This test proved successful.

This was the first connector in the C&I Shear Bolt line to be tested with flex conductor. The result leads to a high confidence level in possible future tests with flex conductor installed in various shear bolt connector sizes.

TEST PROCEDURES:

Static Heating Sequence

Four samples of each set were secured to the Secureness tester, the height; weight, and bushing size were as specified in UL486A-486B Table 26. Samples were rotated for thirty minutes at 9 rpm.

The samples were connected in a series loop configuration and attached to a current controller. The amperage given in UL486A-486B Table 7 was applied to the loop until the temperature of the test samples stabilized. Three temperature readings were taken at 10-minute intervals with no temperature change of more than 2°C and no rise greater than 50°C.

Samples were then subjected to a 1-minute pull to the value specified in UL486A-486B Table 27 and then to failure.

TEST EQUIPMENT LIST:

<u>MANUFACTURER</u>	<u>MODEL</u>	<u>DESCRIPTION</u>	<u>SERIAL #</u>	<u>RANGE</u>	<u>CAL DATE</u>	<u>DUE DATE</u>
RIEHLE	N/A	TENSILE MACHINE	R35429	100,000 lb	1/11/2023	12/16/2023
SEMITRONIC	ACT-001E	CURRENT TRANSDUCER	15101039 B10	1 ACA	6/17/2022	6/17/2023
General	TI-150	STOPWATCH	II	AUTO	11/4/2022	11/4/2023

