



Laboratory Test Report

Report Ref: KEBS/TES/E/031/10

PRIVATE SAMPLE

Date: 27 January 2010

1. Description of Sample: **Tinned Copper Cable Lugs: '50sq. Mm'**
2. Sample Submitted by: **A-1 Electricals Alankar Chambers Gujarat India**
3. Customer Contact: **Justus Musyoka**
4. Customer's Ref. No: **Private**

6. KEBS Sample Ref.No: **BS/00501/10**
7. Date of Receipt: **15 January 2010**
8. Date Analysis Started: **20 January 2010**
9. Sample Submission Form No: **40962**

5. Customer's Address: **P.o Box 36001, Rajkot India**

10. Additional information provided by the customer:

11. Acceptance criteria-title and number of specification against which it is tested:

The Kenya Power and Lighting Co. Ltd. - Specification for Terminal Lugs - (TSP 05 - 029).

12. Parameters tested and Method(s) of test: as listed in the report below

LABORATORY TEST REPORT

No.	Parameters	Results	Requirements	Test Method No
I. Dimensions of the Terminal lugs- 50 sq.mm				
I	A {50SQ.MM}	mm	9.6	9.6 (nominal) Clause 4.2 of TSP 05-029 and BS 91
II	B {50sq mm}	mm	16.5	16Max Clause 4.2 of TSP 05-029 and BS 91
III	C {50sq.mm}	mm	12.4	12[nominal] Clause 4.2 of TSP 05-029 and BS 91
IV	D {50sq.mm}	mm	17.9	17.5Max Clause 4.2 of TSP 05-029 and BS 91
V	E {50sq.mm}	mm	8.2	9 [std] Clause 4.2 of TSP 05-029 and BS 91
VI	F {50sq mm}	mm	2.9	2.4Max Clause 4.2 of TSP 05-029 and BS 91

COMMENTS/REMARKS:

The sample performed as shown

M.O. OGANGA - Manager, Electrical Engineering Laboratory
FOR: MANAGING DIRECTOR

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No.	Parameters		Results	Requirements	Test Method No
VII	G {50sq.mm}	mm	9.0	10.5 Max	Clause 4.2 of TSP 05-029 and BS 91
VIII	H {50sq.mm}	mm	9.8	12 Max	Clause 4.2 of TSP 05-029 and BS 91
IX	J {50sq.mm}	mm	43.6	46 Max	Clause 4.2 of TSP 05-029 and BS 91
X	K {50sq.mm}	mm	7.3	7.5 Max	Clause 4.2 of TSP 05-029 and BS 91

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12. Parameters tested and Method(s) of test: as listed in the report below

LABORATORY TEST REPORT			
No.	Parameters	Results	Requirements
2. Marking and Information			
I	Compression points	Not marked	The lugs shall be marked indelibly and legibly with marks showing the places of compression.
II	Manufacturers Identification	Not marked	The product shall be marked indelibly and legibly with the Manufacturers Identification
III	Technical Details	Complies	Technical detail characteristic for the lugs being offered shall be submitted for evaluation.
IV	Type Number	AE 50	The lugs shall be marked indelibly and legibly with the type number and metric cable or conductor size with which it is to be used.

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LABORATORY TEST REPORT				
No.	Parameters	Results	Requirements	Test Method No
3. Materials and Fabrication				
I	Construction of Terminal Lugs	Complies	The terminal lug shall comprise one tube to be compressed on the conductor and one palm with one hole to connect the lug on the network apparatus	Clause 4.2 of TSP 05 - 029
II	Dimensions of the Terminal lugs	Complies	The lugs shall be type 1 and the dimensions and hole size shall be as per the requirements of BS 91	Clause 4.2 of TSP 05 - 029
III	Finishing of Terminal Lugs	Complies	The lugs shall be free from defects which would be likely to cause them to be unsatisfactory in service.	Clause 4.2 of TSP 05 - 029
IV	Suitability of Installation of the Terminal lugs	Complies	The lugs shall be suitable for installation by use of crimping tool.	Clause 4.2 of TSP 05 - 029

COMMENTS/REMARKS:

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... and all defects in respect of ...
... and test results of ...
... and are not verified by ...

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LABORATORY TEST REPORT			
No.	Parameters	Results	Requirements
V	Suitability of the Terminal Lugs	Complies	The lugs shall be suitable for use on insulated cables and shall correctly fit the cable it is intended for use. It shall have adequate cross sectional area and length.
			Clause 4.2 of TSP 05 - 029

COMMENTS/REMARKS:

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Handwritten note: Certificate refers to a submitted sample and not details in respect of source, and test results of


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