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- 0.1 Circulation List
- 0.2 Amendment Record

FOREWORD

- 1. SCOPE
- 2. REFERENCES
- 3. TERMS AND DEFINITIONS
- 4. REQUIREMENTS
- 5. TESTS AND INSPECTION
- 6. MARKING, INSTRUCTIONS AND PACKING

ANNEX A: Guaranteed Technical Particulars (to be filled and signed by the Supplier and submitted together with copies of the manufacturer's catalogues, brochures, technical data, customer sales records & reference letters and test reports for tender evaluation)

ANNEX B: TYPICAL CABLE GRIP DESIGN (COME ALONG CLAMP)

Issued by: Head of Section, Tech Stds & Specs	Authorized by: Head of Department, R & D
Signed: Elle ter	Signed: (b. attrige
Date: 2011-01-17	Date: 2011-01-17



Doc. No.	KPLC1/3CB/TSP/09/011
issue No.	0
Revision No.	0
Date of Issue	2010-01-17
Page 2 of 1	

0.1 Circulation List

COPY NO.	COPY HOLDER	
1	Research & Development Manager	
2	Procurement Manager	
3	Stores & Stock Control Manager	
4	Transmission Manager	
5	Deputy Manager, Technical Audit	

0.2 Amendment Record

Rev No.	Date	Description of Change	Prepared by	Approved by	
	(YYYY-MM- DD)		(Name & Signature)	(Name & Signature)	
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The Kenya Power & Lighting Co. Ltd.

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SPECIFICATION FOR
CABLE GRIP (COME
ALONG CLAMP) FOR
STEEL GUY WIRE &
EXTRA HIGH STRENGTH
CONDUCTORS-for use by
Transmission Line Teams

Doc. No.	KPLC1/3CB/TSP/09/011
Issue No.	0
Revision No.	0
Date of	2010-01-17

FOREWORD

This specification has been prepared by the Research and Development Department in collaboration with Transmission Department both of Kenya Power and Lighting Company Limited (KPLC) and it lays down requirements for Cable Grip(Come Along Clamp) for steel guy wire & extra high strength conductors. It is intended for use by KPLC in purchasing the Cable Grip.

The supplier shall submit information which confirms satisfactory service experience with products which fall within the scope of this specification.

SCOPE

- 1.1 This specification is for portable hand held grooved clamps for gripping steel guy wires and extra high strength conductors of the following diameter ranges
 - 1.1.1 3-15mm
 - 1.1.2 7.5-20mm
 - 1.1.3 15-35mm
- 1.2 The equipment shall be used for gripping while tensioning steel guy wires, steel ropes, extra high strength conductors and metal rod of all forms.
- 1.3 The grip shall be firm and non- slip and shall not cause any damage to material being pulled.

2. REFERENCES

The following standards contain provisions which, through reference in this text constitute provisions of this specification. Unless otherwise stated, the latest editions (including amendments) apply.

ISO 2766- Single Lifting Hooks with Shanks-capacity up to 25tonnes-Grades M,P,S, (T,V)- Hummer & Dropped Forged Hooks.

BS EN 3243-Specification for Hand- Operated Chain Blocks.

BS EN 1677-5 - Components for Slings.Safety. Forged Steel lifting Hooks with Latch.

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Doc. No.	KPLC1/3CB/TSP/09/011
Issue No.	0
Revision No.	0
Date of Issue	2010-01-17
Page 4 of 1	

3. TERMS AND DEFINITIONS

The definitions given in the reference standards shall apply.

4. REQUIREMENTS

4.1 Construction

- 4.1.1 The clamp shall be special spring loaded to prevent the grip from falling off the conductor and shall allow instant release without jamming when the tension is removed.
- 4.1.2 The jaws of the grip shall be V grooved for maximum contact area without damage and should have mechanism for holding it open for easy placement of conductor.
- 4.1.3 The construction material shall be drop forged high quality steel, machined and heat treated. The equipment shall be weather proof.

4.2 Operation.

- 4.2.1The grip shall when opened remain in open position for easy placement on conductor.
- 4.2.2 The grip shall close as tension is applied and hold conductor firmly.
- 4.2.3 The spring load shall allow for easy removal upon removal of tension without jamming.

4.3 Test results

4.3.1 Factory tests results on the tensile strength of the manufactured cable grip (come along clamp) shall be submitted with tender for evaluation and with the clamps during delivery.

4.4 TECHNICAL AND SPECIFIC REQUIREMENTS

4.4.1 Specific requirements:

4.4.1.1 The same jaws shall be able to grip steel guy wires and extra high strength conductors within its diameter range.

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4.4.1.2 The pulling force and maximum grip diameter shall be specified.

3.2 Technical Specifications.

a) 3-15mm

Item No.	Technical description	Kplc Technical Requirements
1	Material of clamp	Drop forged heat treated steel
2	Clamp jaws	Double V groove
3	Safe working load	2000 kgs
4	Breaking load	12000kg
5	Maximum tensile strength	1770N/mm2
6	Grip range	3-15mm
7	Weight	< 7kgs
8	Finishing	Corrosion resistance coating
9	Warranty on Equipment	At least 12 months
10	Applicable standards	IEC ,ISO & BS Stardards
11	Test certificate/ Test Report	Required
12	Operation and maintenance manual	Shall be in English language

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Doc. No.	KPLC1/3CB/TSP/09/011
Issue No.	0
Revision No.	0
Date of Issue	2010-01-17

b) 7.5- 20mm

Item No.	Technical Description	KPLC Technical Requirements
1	Material of clamp	Drop forged heat treated steel
2	Clamp jaws	Double V groove
3	Safe working load	2000 kgs
4	Breaking load	30kN
5	Maximum tensile strength	1960N/mm2
6	Grip range	7.5-20mm
7	Weight	< 10 kgs
8	Finishing	Corrosion resistance coating
9	Warranty on Equipment	At least 12 months
10	International standards	IEC ,ISO & BS Stardards
11	Test certificate/ Test Report	Required
12	Operation and maintenance manual	Shall be in English language

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Doc. No.	KPLC1/3CB/TSP/09/011
Issue No.	0
Revision No.	0
Date of	2016-01-17

c) 15-35mm

item No.	Technical description	Kplc Technical Requirements
1	Material of clamp	Drop forged heat treated steel
2	Clamp jaws	Double V groove
3	Safe working load	2000 kgs
4	Breaking load	40kN
5	Maximum tensile strength	1960N/mm2
6	Grip range	15-35mm
7	Weight	< 15kgs
8	Finishing	Corrosion resistance coating
9	Warranty on Equipment	At least 12 months
10	International standards	IEC ,ISO & BS Stardards
11	Test certificate/ Test Reports	Required
12	Operation manual	Shall be in English language

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Doc. No.	KPLC1/3CB/TSP/09/011
Issue No.	0
Revision No.	0
Date of Issue	2010-01-17
Page 8 of 1	

5.0 TEST AND INSPECTION

- 5.1. The clamp shall be inspected and tested in accordance with the requirements of this specification and relevant IEC/ISO/BS standards
- 5.2 Copies of previous test reports for the cable grips shall be submitted with the tender for evaluation. The test reports must be from an ISO/IEC 17025 accredited laborotary.
- 5.3 Test report for the clamps manufactured for KPLC shall be submitted to KPLC for approval before shipment/delivery. The test reports shall include tensile strength and breaking load of the clamp.

6 MARKING, PACKING AND INSTRUCTIONS

- 6.1 The following information shall be marked indelibly and legibly on the cable grip (come along clamps)
 - i) Manufacturer's Name or Trademark;
 - ii) Type reference
 - iii) Safe working load
 - iv) Serial number
 - v) Production batch and year of manufacture
 - vi) Letters "KPLC"
- 6.2 Instructions for use shall be submitted with the clamps during delivery (all in English Language).
- 6.3 The clamps shall be packed in wooden crates and shall be protected from damage during transportation and storage.

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SPECIFICATION FOR	
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ALONG CLAMP) FOR	
STEEL GUY WIRE &	
EXTRA HIGH STRENGT	H
CONDUCTORS-for use	bν

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•	Doc. No.	KPLC1/3CB/TSP/09/011
SPECIFICATION FOR	Issue No.	0
CABLE GRIP (COME	Revision No.	0
ALONG CLAMP) FOR STEEL GUY WIRE &	Date of Issue	20 6-01-17
EXTRA HIGH STRENGTH	Page 9 of 1	0
CONDUCTORS-for use by		
Transmission Line Teams		

ANNEX A: Guaranteed Technical Particulars (to be filled and signed by the <u>Supplier</u> and submitted together with copies of manufacturer's catalogues, brochures, drawings, technical data, sales records and copies of certificates/test reports for tender evaluation)

TITLE:

Clause number Bidder's offer (indicate full details of the offered		
	equipment for each requirement of the specification)	
1. Scope		
1.1-1.1.2		
4. Requirements		
4.1 Construction		
4.1.3		
4.2 Operations		
4.2.1-4.2.3		
4.3 Test results		
4.3.1		
a) 3-15mm		
Requirements 1-12		
b) 7.5-20mm		
Requirements 1-12		
c) 15-35mm		
Requirements 1-12		
5.0 Test & Inspection		
5.1-5.3		
6. Marking ,Instruction		
6.1-6.3		

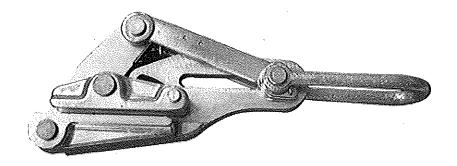
Supplier's Name, Signature, Stamp and Date

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Doc. No.	KPLC1/3CB/TSP/09/011
Issue No.	0
Revision No.	0
Date of Issue	2014-01-17
Page 10 of	

ANNEX B
TYPICAL CABLE GRIP DESIGN (COME ALONG CLAMP)



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