



Standard

Distribution

Title: **TECHNICAL EVALUATION
CRITERIA FOR DX HV
OVERHEAD POWERLINES
COMPRESSION FITTINGS AND
CLAMPS**

Unique Identifier: **240-171000175**

Alternative Reference Number: **n/a**

Area of Applicability: **Engineering**

Documentation Type: **Standard**

Revision: **1**

Total Pages: **180**

Next Review Date: **June 2028**

Disclosure Classification: **Controlled
Disclosure**

Compiled by

Lucy Sangweni

Chief Engineer: HV Lines

Date: 19/06/2023

Approved by

Mfundu Songo

**Senior Manager:
Technology & Engineering**

Date: 19 June 2023

Authorized by

Azwimbavhi Mamanyuha

**General Manager:
Technology & Engineering**

Date: 21 August 2023

Supported by HV Lines SC

Lucy Sangweni

HV Lines SC Chairperson

Date: 23 August 2023

Content

	Page
1. Introduction.....	6
2. Supporting clauses.....	6
2.1 Scope.....	6
2.1.1 Purpose.....	6
2.1.2 Applicability.....	6
2.2 Normative/informative references.....	6
2.2.1 Normative.....	6
2.2.2 Informative.....	7
2.3 Definitions.....	7
2.3.1 General.....	7
2.3.2 Disclosure classification.....	8
2.4 Abbreviations.....	8
2.5 Roles and responsibilities.....	8
2.6 Process for monitoring.....	9
2.7 Related/supporting documents.....	9
3. Technical Tender Evaluation Procedure.....	9
3.1 Desktop Evaluation.....	9
3.1.1 Level 1: Mandatory (Gatekeeper) Criteria and Returnable.....	10
3.1.2 Level 2: Functional (Scoring) Criteria and Returnable (only submission that pass Level 1).....	11
3.1.3 Level 3: Product Sample Criteria.....	12
3.2 Factory Assessment.....	13
4. Authorization.....	21
5. Revisions.....	21
6. Development team.....	21
7. Acknowledgements.....	22
Annex A – Compression Fittings and Clamps Technical Evaluation Criteria.....	23

Tables

Table 1: Level 1: Mandatory (Gatekeeper) Criteria and Returnable.....	10
Table 2: Level 2: Functional (Scoring) Criteria and Returnable.....	11
Table 3: Level 3: Product Sample Criteria.....	12
Table 4: Level 4: General Factory Assessment.....	13
Table A.1: Compression Dead-End Clamp Assembly for ACSR Hare conductor.....	23
Table A.2: Compression Dead-End Clamp Assembly for ACSR Chicadee Conductor.....	24
Table A.3: Compression Dead-End Clamp Assembly for ACSR Kingbird Conductor.....	26
Table A.4: Compression Dead-End Clamp Assembly for ACSR Tern Conductor.....	28
Table A.5: Compression Dead-End Clamp Assembly for ACSR Tiger Conductor.....	30
Table A.6: Compression Dead-End Clamp Assembly for ACSR Rail Conductor.....	31
Table A.7: Compression Dead-End Clamp Assembly for ACSR Bear Conductor.....	33

ESKOM COPYRIGHT PROTECTED

Table A.8: Compression Dead-End Clamp Assembly for ACSR Wolf Conductor	34
Table A.9: Compression Dead-End Clamp Assembly for ACSR Mink Conductor	36
Table A.10: Compression Dead-End Clamp Assembly for ACSR Zebra Conductor	38
Table A.11: Compression Dead-End Clamp Assembly for ACSR BERSFORT Conductor	40
Table A.12: Compression Dead-End Clamp Assembly for AAAC ASH Conductor	41
Table A.13: Compression Dead-End Clamp Assembly for AAAC OAK Conductor	43
Table A.14: Suspension Clamp for Steel wire 7/3.35 Conductor	45
Table A.15: Clamp Suspension for Steel wire 19/2.65 Conductor	46
Table A.16: DOUBLE OPENING SUSPENSION CLAMP For steel wire 7/3.35 and 19/2.65.....	47
Table A.17: PISTOL CLAMP for conductor range: 16-5mm Dia.....	49
Table A.18: PISTOL CLAMP for conductor range: 15-6mm Dia.....	50
Table A.19: PISTOL CLAMP for conductor range: 15-6mm Dia.....	52
Table A.20: PISTOL CLAMP for conductor range: 18-30mm Dia.....	53
Table A.21: SUSPENSION PIVOTED CLAMP For Conductor range 25.0mm to 40mm Diameter	55
Table A.22: SUSPENSION CRADLE CLAMP for Steel Wires Diameter range 5mm to 17mm.....	56
Table A.23: CROSBY CLAMP For Conductor range Steel Wire Rope 13mm Diameter	57
Table A.24: CROSBY CLAMP For Conductor range Steel Wire Rope 16mm Diameter	59
Table A.25: THIMBLE CLEVIS.....	61
Table A.26: Mid-Span Tension Joint for ACSR Mink Conductor.....	62
Table A.27: Mid-Span Tension Joint for ACSR HARE Conductor	64
Table A.28: Mid-Span Tension Joint for ACSR WOLF Conductor	65
Table A.29: Mid-Span Tension Joint for AAAC Ash Conductor	67
Table A.30: Mid-Span Tension Joint for ACSR Tiger Conductor	69
Table A.31: Mid-Span Tension Joint for ACSR Rail Conductor	70
Table A.32: Mid-Span Tension Joint for ACSR CHICADEE Conductor.....	72
Table A.33: Mid-Span Tension Joint for ACSR BEAR Conductor.....	73
Table A.34: Mid-Span Tension Joint for ACSR KINGBIRD Conductor	75
Table A.35: Mid-Span Tension Joint for ACSR TERN Conductor.....	77
Table A.36: Mid-Span Tension Joint for ACSR ZEBRA Conductor	79
Table A.37: Mid-Span Tension Joint for ACSR BERSFORT Conductor.....	80
Table A.38: Mid-Span Tension Joint for AAAC Oak.....	82
Table A.39: Mid-Span Tension Joint for Steel wire 3/4	84
Table A.40: Mid-Span Tension Joint for Steel wire 3/4	85
Table A.41: Mid-Span Tension Joint for Steel wire 7/3.35	87
Table A.42: Mid-Span Tension Joint for Steel wire 19/2.65	89
Table A.43: Sleeve Repair for ACSR Mink Conductor	90
Table A.44: Sleeve Repair for ACSR HARE Conductor.....	92
Table A.45: Sleeve Repair for AAAC Ash Conductor.....	93

ESKOM COPYRIGHT PROTECTED

Table A.46: Sleeve Repair for AAAC Oak Conductor	95
Table A.47: Sleeve Repair for ACSR Tiger Conductor	96
Table A.48: Sleeve Repair for ACSR Rail Conductor	98
Table A.49: Sleeve Repair for ACSR WOLF Conductor	99
Table A.50: Sleeve Repair for ACSR CHICADEE Conductor	101
Table A.51: Sleeve Repair for ACSR BEAR Conductor	102
Table A.52: Sleeve Repair for ACSR Kingbird Conductor	104
Table A.53: Sleeve Repair for ACSR TERN Conductor	106
Table A.54: Sleeve Repair for ACSR ZEBRA Conductor	107
Table A.55: Sleeve Repair for ACSR BERSFORT Conductor	109
Table A.56: Sleeve Repair for Steel wire 3/4 Conductor	110
Table A.57: Sleeve Repair for Steel wire 7/3.35 Conductor	112
Table A.58: Sleeve Repair for Steel wire 19/2.65 Conductor	113
Table A.59: Non-Tension Joint for ACSR Mink Conductor	115
Table A.60: Non-Tension Joint for ACSR HARE Conductor	116
Table A.61: Armor Grip Suspension (AGS) Unit for ACSR MINK Conductor and AAAC PINE Conductor ...	118
Table A.62: Non-Tension Joint for AAAC Oak Conductor	119
Table A.63: Non-Tension Joint for ACSR WOLF Conductor	121
Table A.64: Non-Tension Joint for ACSR CHICADEE Conductor	122
Table A.65: Non-Tension Joint for ACSR BEAR Conductor	123
Table A.66: Non-Tension Joint for ACSR Kingbird Conductor	125
Table A.67: Non-Tension Joint for ACSR TERN Conductor	126
Table A.68: Non-Tension Joint for ACSR Tiger Conductor	128
Table A.69: Non-Tension Joint for ACSR RAIL Conductor	129
Table A.70: Non-Tension Joint for ACSR ZEBRA Conductor	130
Table A.71: Non-Tension Joint for ACSR BERSFORT Conductor	132
Table A.72: Non-Tension Joint for Steel wire 3/4 Conductor	133
Table A.73: Non-Tension Joint for Steel wire 7/3.35 Conductor	135
Table A.74: Non-Tension Joint for Steel wire 19/2.65 Conductor	136
Table A.75: Armor Grip Suspension (AGS) Unit for ACSR MINK Conductor and AAAC PINE Conductor ...	137
Table A.76: Armor Grip Suspension (AGS) Unit for ACSR HARE Conductor and AAAC Oak Conductor	139
Table A.77: Armor Grip Suspension (AGS) Unit for ACSR WOLF Conductor	140
Table A.78: Armor Grip Suspension (AGS) Unit for ACSR CHICADEE Conductor	142
Table A.79: Armor Grip Suspension (AGS) Unit for ACSR BEAR Conductor	143
Table A.80: Armor Grip Suspension (AGS) Unit for ACSR KINGBIRD Conductor	145
Table A.81: Armor Grip Suspension (AGS) Unit for ACSR TERN Conductor	146
Table A.82: Armor Grip Suspension (AGS) Unit for ACSR ZEBRA Conductor	148
Table A.83: Armor Grip Suspension (AGS) Unit for ACSR BERSFORT Conductor	149

ESKOM COPYRIGHT PROTECTED

Table A.84: Trunnion Clamp for Line Post insulator suitable for conductor range Dia. 13-27mm with armour rods	151
Table A.85: Trunnion Clamp for Line Post insulator suitable for conductor range Dia. 25-38mm with armour rods	152
Table A.86: Armor Grip Suspension (AGS) Unit for AAAC ASH Conductor	154
Table A.87: Armor Grip Suspension (AGS) Unit for ACSR TIGER Conductor	155
Table A.88: Trunnion Clamp for Line Post insulator suitable for conductor range Dia. 38 - 51mm with armour rods	157
Table A.89: Trunnion Clamp for Line Post insulator suitable for conductor range Dia. 38 - 51mm with armour rods	158
Table A.90: Trunnion Angle Clamp for Line Post insulator suitable for conductor range Dia. 13-27mm with armour rods	160
Table A.91: Trunnion Angle Clamp for Line Post insulator suitable for conductor range Dia. 25-38mm with armour rods	161
Table A.92: Trunnion Angle Clamp for Line Post insulator suitable for conductor range Dia. 38 - 51mm with armour rods	163
Table A.93: Multifrequency Vibration Damper suitable for Oak or Hare (Dia. 13.9-15mm) conductors	164
Table A.94: Multifrequency Vibration Damper suitable for WOLF (Dia. 18.13mm) conductors	166
Table A.95: Multifrequency Vibration Damper suitable for CHICADEE (Dia. 18.87mm) conductors	167
Table A.96: Multifrequency Vibration Damper suitable for BEAR and KINGBIRD (Dia. 23.45 - 23.90mm) conductors	169
Table A.97: Multifrequency Vibration Damper suitable for TERN (Dia. 27.00mm) conductor	171
Table A.98: Multifrequency Vibration Damper suitable for ASH (Dia. 17.40mm) conductors	172
Table A.99: Multifrequency Vibration Damper suitable for TIGER (Dia. 16.52mm) conductors	174
Table A.100: Multifrequency Vibration Damper suitable for RAIL (Dia. 29.59mm) conductor	175
Table A.101: Multifrequency Vibration Damper suitable for ZEBRA (Dia. 28.56mm) conductor	177
Table A.102: Multifrequency Vibration Damper suitable for BERSFORD (Dia. 35.56mm) conductor	179

1. Introduction

This document describes the standard technical evaluation criteria which will govern the assessment of tender submissions for Overhead Powerlines Compression Fittings and Clamps for Eskom Distribution Division. The criteria for each compression fitting and clamp type are tabulated in the annexures at the end of this document.

This document contains both the evaluation criteria used for desktop evaluation and factory evaluation and was compiled in accordance with Eskom Procurement and Supply Chain Management guidelines (32-1034). This document does not replace the Buyer's Guide specifications and shall be used in conjunction with the documents listed in the normative section of this document.

2. Supporting clauses

2.1 Scope

This document describes the technical evaluation process and criteria associated with Distribution HV Overhead Powerlines Compression Fittings and Clamps. It covers the design, manufacture, testing and supply of current-carrying compression fittings and clamps for Distribution HV Powerlines. It is applicable to fittings for bare ACSR and AAAC phase conductors and bare galvanised steel wire earth conductors, for use on A.C. system voltages from 44 kV up to and including 132 kV.

2.1.1 Purpose

The purpose of this document is to describe the criteria which are to be used when evaluating tender submissions for the supply of Distribution HV Overhead Powerlines Compression Fittings and Clamps, in line with the Eskom Holdings SOC (Ltd) requirement.

2.1.2 Applicability

This document shall apply to Eskom Distribution Division.

2.2 Normative/informative references

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

2.2.1 Normative

- [1] ISO 9001, Quality Management Systems.
- [2] 32-1034 – Eskom procurement and supply chain management
- [3] 240-48929482- Tender Engineering Evaluation Procedure
- [4] 240-51757553 - Provide Engineering during Project Sourcing
- [5] 240-75883154 - Current Carrying Compression Fittings for Overhead Sub-Transmission Systems
- [6] SANS IEC 61284 - Overhead lines - Requirements and tests for fittings
- [7] SANS 61897 - Overhead lines - Requirements and tests for Aeolian vibration dampers
- [8] SANS 813 - Clamps for wire ropes
- [9] SANS 61089- Round wire concentric lay overhead electrical stranded conductors.
- [10] SANS 121 - Hot-dip galvanized coatings on fabricated iron and steel articles – specifications and test methods.
- [11] 240-152844641- Phase Conductor Standard for Eskom Overhead Lines

2.2.2 Informative

- [12] 32-9: Definition of Eskom documents.
- [13] 32-644: Eskom documentation management standard.
- [14] 474-65: Operating manual of the Steering Committee of Technologies (SCOT).

2.3 Definitions

2.3.1 General

Definition	Description
Aluminium Conductor Steel Reinforced (ACSR)	steel reinforced (ACSR) A reinforced conductor with one or more layers of aluminium wire stranded around a core of galvanised steel wires.
All aluminium alloy	A conductor comprising helically wound aluminium alloy wire
Bare conductor	A conductor without any insulating covering
Breaking force	The tensile load being applied when the test specimen breaks or becomes permanently deformed beyond a specified limit.
Buyer's Guide	A list or catalogue of SAP numbers and associated material descriptions.
Conductor	An electrical conductor arranged to be electrically connected to a source of electrical energy.
Compression fitting	A conductor fitting designed to ensure electrical and/or mechanical continuity of the overhead line conductor, in which the force necessary to grip the conductor is provided by permanent plastic deformation of the fitting and all layers of the conductor by an appropriate compression tool.
Dead-end tension joint	A joint inserted at the end of a conductor for attachment to an insulator tension set, designed to carry the full current and to provide mechanical termination of the conductor.
Desktop evaluation	An evaluation of the documentation included in the tender returnable.
Enquiry returnable	Items stipulated in the Tender Enquiry, defined as mandatory, to be submitted as part of the tender submission.
Eskom Assessment Representative(s)	The person(s) appointed by Eskom to perform evaluation of tender submission(s) in line with Eskom requirements.
Eskom Distribution Systems Hardware and Fittings	Hardware components and assemblies used for the construction of power systems and substations.
Factory Assessment	An assessment of the production process, ability, and capacity of the manufacturing facility's conformity to standard specifications and regulations.
Mid-span tension joint	A fitting inserted between two lengths of a conductor to provide electrical and mechanical continuity of the conductor under working load.
Non-returnable	May not be returned to the tenderer.
Repair sleeve	A special fitting composed of two interlocking parts, that connect to each other to form a tubular sleeve. The sleeve can be installed over a damaged conductor in order to restore its mechanical and electrical properties.

Definition	Description
Sliding Scale Points System	Refers to allocating maximum points to the tenderers whose value in question is higher according to the most superior performance amongst others and proportionally deducting points from those tenderers who are lower than that reference value.
Specified minimum failure load (SMFL)	The minimum load specified by the purchaser or declared by the supplier at which mechanical failure shall not take place.
Sub-transmission lines	Means powerlines that carry voltages from 44kV up to including 132kV.
Supplier	Means a current or potential Supplier, vendor, contractor, consultant, or service provider. Suppliers may include Tenderers that are the OEM or redistributors.

2.3.2 Disclosure classification

Controlled disclosure: controlled disclosure to external parties (either enforced by law, or discretionary).

2.4 Abbreviations

Abbreviation	Description
AAAC	All aluminium alloy conductors
ACSR	Aluminium Conductor Steel Reinforced
AQL	Acceptable Quality Level
DTI	Department of Trade and Industry
DX	Distribution
GSW	Galvanized steel wire.
HV	High Voltage
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
M-value	Marking Load (in tension test)
NEC	New Engineering Contract
OEM	Original Equipment Manufacturer
OHS ACT	The Occupational Health and Safety Act, 1993 (Act 85 of 1993)
QITP	Quality Inspection Test Plans
SAP	Systems Application Processes
SMFL	Specified Minimum Failure Load
TET	Technical Evaluation Team
UTS	Ultimate Tensile Strength.

2.5 Roles and responsibilities

It is the responsibility of the engineers, commercial representatives, end user and manufacturers to completely abide by the criteria set out in this standard together with the requirements mentioned in the referenced documentation.

ESKOM COPYRIGHT PROTECTED

2.6 Process for monitoring

The Distribution High Voltage Overhead Powerlines Study Committee must ensure that this document is updated, always renewed and current.

2.7 Related/supporting documents

Not applicable.

3. Technical Tender Evaluation Procedure

The evaluation criteria will be used to measure the supplier's ability to supply Eskom Distribution with compression fittings and clamps for Sub-transmission powerlines in compliance with the specific requirements as stated in Eskom's Standards, Eskom's Buyer's Guide Documents, South African National Standards, International Standards (if there is no South African Standard available) and specific user stipulations, as included in the Commercial strategy.

The technical evaluation procedure is specific to each item type. The items include current carrying compression fittings, mid-span tension joints, repair sleeves, suspension clamps, armour grip suspension units, trunnion clamps, vibrating dampers, Crosby clamp and thimble clamp for DX Sub-transmission powerlines (44kV-132kV).

The complete evaluation of any potential supplier would involve a desktop evaluation as well as a factory assessment. The factory evaluation is necessary to verify if the supplier possesses the capabilities which they have documented in their tender submissions.

3.1 Desktop Evaluation

The desktop evaluation forms the first aspect of the assessment. The desktop evaluation will require the submission of evidence demonstrating compliance to the Mandatory Technical Criteria. This evaluation exercise is performed by Eskom evaluating representatives. This part of the evaluation starts when submissions are opened for the first time. It begins by evaluating the tender documentation submitted by potential suppliers against the mandatory criteria (Level 1), then proceeds to the scoring – Level 2, and refers to the relevant Annexures A, B and C Tables for each item required.

The relevant test certificates together with the complete test reports shall be in English and shall be supplied to the purchaser in hardcopy and electronic format. The relevant product specific technical schedules shall be completed in full for each item and no spaces shall be left blank. Technical schedules A/B are provided in this document for each item and will also be made available in excel format with the tender enquiry package.

The Eskom assessment representatives will go through the details of the returnable submissions that are required and will ensure that all Level 1 qualification criteria are met. If submissions obtain a "No" on any of the Mandatory (Gatekeeper) criteria, the supplier will not be able to proceed to Level 2 evaluation and therefore will fail the technical evaluation. Scoring in Level 2 consists of functional criteria and will be assessed out of 100 points. A Level 2 score of $\leq 90\%$ will qualify for the product sample assessment – Level 3.

The Level 3 Threshold is 100%. The sample evaluation determines the compliance of the manufactured product to the manufacturing standards as stated in the Level 2 criteria. For instance, the product sample will be assessed for compliance to aspects such as dimensions, galvanising, markings, accessories etc. These will be known and sourced from the measurable criteria stated in the Level 2 criteria. Full compliance to the technical standards included in the criteria is critical due to the high risk introduced by non-compliance.

The product sample assessment shall be undertaken, only if the Level 2 threshold is met. The non-returnable sample will be requested by the responsible Buyer after Level 2 requirements are met. For those samples that are deemed by the Evaluation Team to be unduly large for delivery to the respective Eskom offices where the evaluation is being conducted, the Technical Evaluation Team may opt to perform the sample evaluation at the manufacturing plant. All other smaller samples shall be delivered to the Designated Eskom Commercial office responsible for that particular product within 14 calendar days from the date of request.

Submissions satisfying the Level 3 requirements shall be considered for the Factory Assessment and Verification – Level 4.

3.1.1 Level 1: Mandatory (Gatekeeper) Criteria and Returnable

This evaluation will be conducted per SAP number or item. The following evidence is required to meet the Level 1 Mandatory (Gatekeeper) Criteria per SAP number or item:

Table 1: Level 1: Mandatory (Gatekeeper) Criteria and Returnable

No.	Criteria	Compliance	Qualification Criteria
1	Is the Technical Schedule A&B completed correctly and submitted for each SAP number stated on the enquiry?	Yes/No	Mandatory requirement
2	Is the test report schedule completed, relevant and submitted for each SAP number stated on the enquiry?	Yes/No	Mandatory requirement
3	Proof submitted that all required Design and Type testing has been performed at an accredited test facility? OR At the factory and witnessed by an accredited body and supporting information supplied?	Yes/No	Mandatory requirement
4	Complete and approved (signed) Manufacturer Drawings submitted for each SAP number stated on the enquiry?	Yes/No	Mandatory requirement
5	Product meets ESKOM requirements as stipulated in Technical Schedule. No deviations found or deviations identified during detailed evaluation are considered minor i.e., negligible impact on technical and economic performance for the full product life cycle and/or considered correctable before contract award	Yes/No	Mandatory requirement

Notes:

- Tenderers to submit details of manufacturing premises, location, staff and equipment, testing facilities, manufacturing lead times.
- Schedules will be considered incomplete if any criteria in Schedule B is returned blank or with non-technical responses such as “N/A”, “Will be submitted later”, etc.
- Specific deviations to the Schedule A requirements are to be clearly stated in the Deviation Schedule with details related to the deviation and motivation for Eskom to consider a concession.
- The drawings must be provided for each unique SAP number. The SAP number may be stated on the drawing, or the document title can describe the product. The drawings must have the Manufacturer’s name included. “Approved” means there is an approval signature on the drawing. Evidence for any other SAP number will not be accepted.
- Test Schedules will be considered incomplete if any test report number is left blank. If the test report is not available (e.g., the specific test has not been executed on the specific product) then state “Not Available”. Where “Not Available” is stated, this deviation (per test) is to be clearly stated in the Deviation Schedule with details related to the deviation and motivation for Eskom to consider a concession for the testing requirements.
- Submissions meeting 100% of the Level 1 requirements will proceed to the next level of the technical evaluation.
- Submissions failing to meet 100% of the Level 1 requirements will be deemed non-responsive; the submission will be disqualified and not evaluated further.

ESKOM COPYRIGHT PROTECTED

3.1.2 Level 2: Functional (Scoring) Criteria and Returnable (only submission that pass Level 1)

This evaluation will be conducted per SAP number or item. The following evidence is required to meet the Level 2 Functional Criteria per SAP number or item:

Table 2: Level 2: Functional (Scoring) Criteria and Returnable

No	Criteria	Weight [%]	Score
1	Proof of 10 years manufacturing experience (at relevant voltages)	10	10 if > 10 years 5 if > 5 years 2 if < 5 years
2	Completeness and compliance of the evidence stated in the Schedule B column of the Technical A&B Schedules	10	0 – Not compliant 5 – Partially completed 10 – Completed and Fully Compliant
3	Detailed Drawings provided	20	0 – No drawing 10 – Partial itemised drawing 20 – Complete itemised drawing
4	Supplied Type tests certificates	10	0 – Not Acceptable 10 – Acceptable
5	Transport, Handling, Storage and Installation Guidelines	10	0 – No information 5 – Partial Information 10 – Complete Information
6	Ability to provide samples letter	5	0 – No information 5 – Acceptable Information
7	Production capacity letter	5	0 – No information 5 – Acceptable Information
8	Allowance for manufacturing, inspections and witnessing of tests letter	5	0 – No information 5 – Acceptable Information
9	Confirmation that offered product complies fully with IEC/SANS 61284, SANS 61897 and SANS 813 requirements.	25	0 – No information 15 – Partial information 25 - Acceptable Information
	Total	100%	

Notes:

- The Level 2 Threshold is 90.00%. Compliance to the technical standards included in the criteria is critical, due to the high risk introduced by non-compliance. Eskom Distribution systems hardware items are considered high risk items, meaning that when component failure occurs, serious harm, injury or death may be caused to the public, animals or the environment. It also places the network at risk and could adversely affect both the performance as well as continuity of supply.
- Full points will be awarded for fully compliant submissions. “Fully compliant” means that the evidence stated in the Schedule B column of the Technical A&B Schedule complies with specified requirements in Schedule A; there are no deviations, omissions or incomplete/blank/irrelevant responses.
- Submissions meeting 90.00% of the Level 2 requirements will proceed to the next level of the technical evaluation.
- Submissions failing to meet 90.00% of the Level 2 requirements will be deemed non-compliant; the submission will be disqualified and not evaluated further.

ESKOM COPYRIGHT PROTECTED

3.1.3 Level 3: Product Sample Criteria

This evaluation will be conducted per SAP number or item. A sample will be evaluated as follows:

Table 3: Level 3: Product Sample Criteria

No	Criteria	Weight	Score
1	Compliance of the Manufactured product to the measurable standards included in the Technical A&B Schedules and the Manufacturer's drawings included in the submission.	5	0 – Deficient or non-responsive 5 – Fully Compliant
	Total	100%	

Notes:

- The Level 3 Threshold is 100%. Full compliance to the technical standards included in the criteria is critical due to the high risk introduced by non-compliance.
- Submissions meeting 100% - proceed to the next level of the technical evaluation i.e., the Factory Assessment and Verification or the evaluation will be concluded at this stage as per the decision from the Technical Evaluation Team.
- Submissions failing to meet 100% - deemed non-compliant; the submission will be disqualified and not evaluated further.

3.2 Factory Assessment

Table 4: Level 4: General Factory Assessment

No	Technical Questions	Score	Criteria	Evidence and Comments
1	Work Systems	10%		
1.1	Works procedures and instructions: a. What ISO standards are used b. Are the ISO accreditations up to date		If both in place and documents are traceable and up to date then = 2 If either 'a' or 'b' are omitted = 1 None = 0	
1.2	Continuous improvement and international compliance: Do they comply fully to the normative/governing IEC/SANS/IEEE standards and any additional requirements as stipulated in the applicable Eskom Specification for each equipment being assessed?		Full Compliance = 2 Minor deviation = 2 Major deviation/non-compliance = 0.5 Non-compliance to Eskom specs and governing standards = 0	
1.3	Quality control plans and systems (PQPs) (choose one of each)		QCP's and PQP's in place and traceable = 2 QCP's and PQP's in place = 1 Some QCP's and PQP's in place = 0.5 None in place = 0	
1.4	Inspections, audits and reviews (choose one of each)		All inspections, audits and reviews in place, up to date and traceable = 2 All inspections, audits and reviews in place = 1 Some inspections, audits and reviews in place = 0.5 None in place = 0	
1.5	Staff training and accreditation systems and controls What training do they offer their staff? Who are they accredited with? (choose minimum 2 random staff members)		Staff trained and accredited, and traceable = 2 Staff trained and traceable = 1 Staff trained = 0.5 Staff not trained = 0	

ESKOM COPYRIGHT PROTECTED

When downloaded from the WEB, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorized version on the WEB.

Document Classification: Controlled Disclosure

**TECHNICAL EVALUATION CRITERIA FOR DX HV OVERHEAD POWERLINES
COMPRESSION FITTINGS AND CLAMPS**

Unique Identifier: **240-171000175**

Revision: **1**

Page: **14 of 180**

No	Technical Questions	Score	Criteria	Evidence and Comments
2	Operation – Manufacturing methods	22%		
2.1	What base materials are used, and how is it checked?		All base material quality checked, handled, stored and catalogued correctly, and is traceable = 2 All base material quality checked, stored and catalogued correctly, but not traceable = 1 Some of the above checks not done = 0.5 No tracing of base material, or stored incorrectly = 0	
2.2	For components/materials manufactured in-house, how is quality controlled?		All manufactured materials- quality checked, handled, stored and catalogued correctly, and is traceable = 2 All manufactured materials, stored and catalogued correctly, = 1 Some of the above checks not done = 0.5 No tracing of manufactured materials, or stored incorrectly = 0	
2.3	If corona rings are applicable, how is it checked? Are installation guides supplied for corona rings? Please include short circuit kA/s ratings.		All corona rings quality checked, handled, stored and catalogued correctly and includes kA/s rating, and is traceable = 2 Some of the above checks not done = 1 No tracing of corona rings, or stored incorrectly = 0	
2.4	Which metallic parts are used, and how is it checked?		All metallic parts quality checked, handled, stored and catalogued correctly, and is traceable = 2 All metallic parts quality checked, stored and catalogued correctly = 1 Some of the above checks not done = 0.5 No tracing of metallic parts, or stored incorrectly = 0	

ESKOM COPYRIGHT PROTECTED

When downloaded from the WEB, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorized version on the WEB.

Document Classification: Controlled Disclosure

**TECHNICAL EVALUATION CRITERIA FOR DX HV OVERHEAD POWERLINES
COMPRESSION FITTINGS AND CLAMPS**

Unique Identifier: **240-171000175**

Revision: **1**

Page: **15 of 180**

No	Technical Questions	Score	Criteria	Evidence and Comments
2.5	What is the quality and availability of test reports?		Test certificate has all relevant data, easy to read and understand, signed off by authorised personnel and is traceable = 2 Test certificate has all relevant data, easy to read and understand, signed off by authorised personnel = 1 Test certificate has relevant data, not signed off by authorised personnel = 0.5 Test certificates do not display all relevant criteria = 0	
2.6	What is the supplier's estimate of current capacity limit of the insulator?		Can meet on time delivery for our unit = 2 Some potential delays for the production of our unit = 1 Major delays anticipated = 0	
2.7	Are there any bottlenecks in the manufacturing process? (e.g., test bay, moulding, baking, etc.)		Can meet on time delivery for our units = 2 Some potential delays for the production of our unit = 1 Major delays anticipated = 0	
2.8	Does the supplier intend to make use of a substitute factory if capacity increase is required? If so, has it been evaluated for this project?		Yes, fully accredited = 2 Yes, not accredited yet = 0	
2.9	How has the supplier expedited orders if required?		Adequate process to fast-track orders, and is traceable = 2 Adequate process to fast-track orders = 1 Process exists, but needs improvement = 0.5 No process = 0	
2.10	Plant Capacity: can the factory provide the commodity according to Eskom's specification		Aligns completely to Eskom specifications = 2 Partially aligns to Eskom specifications = 1 Doesn't align to Eskom specifications = 0	
2.11	What are factory failure rates for the last 5 years and how is daily limit managed if exceeded?		Less than 1%, and traceable = 2 Less than 1% = 1 Between 1-2% = 0.5 Greater than 2% = 0	

ESKOM COPYRIGHT PROTECTED

When downloaded from the WEB, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorized version on the WEB.

Document Classification: Controlled Disclosure

**TECHNICAL EVALUATION CRITERIA FOR DX HV OVERHEAD POWERLINES
COMPRESSION FITTINGS AND CLAMPS**

Unique Identifier: **240-171000175**

Revision: **1**

Page: **16 of 180**

No	Technical Questions	Score	Criteria	Evidence and Comments
3	Technical Infrastructure	6%		
3.1	What manufacturing equipment/tools does the supplier have, who manufactures this equipment, what is the capacity of this equipment?		Equipment/tools bought from accredited and known manufacturers, and traceable = 2 Equipment/tools bought from accredited and known manufacturers but not traceable = 1 Some equipment/tools bought from accredited and known manufacturers = 0.5 Equipment/tools bought from unrecognised manufacturers = 0	
3.2	How are supervisors and workers trained on handling equipment?		Certificate or accreditation, and traceable = 2 Certificate or accreditation = 1 Some workers accredited, certified = 0.5 No certificate or accreditation = 0	
3.3	What is the maintenance operating model for the production line?		Complete maintenance records, and traceable = 2 Complete maintenance records = 1 Incomplete maintenance records, procedures = 0.5 Limited/no maintenance records = 0	
4	Design Practices and Application	24%		
4.1	Please describe your design criteria basis and guidelines – Electrical, Mechanical		Clear tools and software for designs = 2 Have tools (software) available, however no clear philosophy on how tools are employed = 1 Have tools only = 0.5 No philosophy = 0	
4.2	What is the design team's composition/structure, numbers, experience levels?		Engineer has >10 years' experience in design, CVs, certifications are current = 2 Engineer has 5-10 experience in design, CVs and/or certifications are not current = 1 No CVs, certifications = 0	

ESKOM COPYRIGHT PROTECTED

When downloaded from the WEB, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorized version on the WEB.

Document Classification: Controlled Disclosure**TECHNICAL EVALUATION CRITERIA FOR DX HV OVERHEAD POWERLINES
COMPRESSION FITTINGS AND CLAMPS**Unique Identifier: **240-171000175**Revision: **1**Page: **17 of 180**

No	Technical Questions	Score	Criteria	Evidence and Comments
4.3	Please provide design process flowchart / systems for similar products		Up to date flowchart = 2 Flowchart not current = 1 No flowchart = 0	
4.4	How do you ensure internal design verification/ validation as part of your design process?		Authorised person checks and signs off design = 2 No checks, self-release = 0	
4.5	What is the process to deal with design change requests (concession), internal or external?		Formalised design review process that includes customer, internal personnel and design expert, plan and schedule = 2 No formalised design review process = 0	
4.6	Following final design approval, how is the final design linked to the manufacturing process?		Approved inspection and test plans include hold points to verify execution of design = 2 No monitoring system = 0	
4.7	Are the engineering tools used for the relevant designs calibrated and/or up to date?		Tools are certified and up to date, calibration, software updates – must be of the latest version, user accreditation must be current = 2 Some certifications of tools, software, user has accreditation but not of latest value = 1 No certified tools = 0	
4.8	How do you ensure continuous development of staff with respect to design systems and philosophy? (i.e., software and manually)		Training programme for all involved staff, individual development plans for staff, adequate and up to date learning = 2 Training programme exists process not adequate = 1 No continuous development = 0	
4.9	How does the system flag excursions outside internal design rules? E.g., non-standard design outside the internal design capability		Flags excursions, calibration is current = 2 Flags some but not all = 1 No excursions flagged, not calibrated properly = 0	
4.10	As design technology backup, who are your technology partners?		Aligned with accredited institutions = 2 Not aligned with accredited institutions = 1 None = 0	

ESKOM COPYRIGHT PROTECTED

When downloaded from the WEB, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorized version on the WEB.

Document Classification: Controlled Disclosure

**TECHNICAL EVALUATION CRITERIA FOR DX HV OVERHEAD POWERLINES
COMPRESSION FITTINGS AND CLAMPS**

Unique Identifier: **240-171000175**

Revision: **1**

Page: **18 of 180**

No	Technical Questions	Score	Criteria	Evidence and Comments
4.11	How do you support/co-ordinate the use of academic/research institutions for technology support, if any?		Clear functional role and responsibilities, collaboration with universities (i.e., sponsorship of students) = 2 No = 0	
4.12	How do you support/co-ordinate external partners for component manufacturers, if any?		Clear functional role and responsibilities, collaboration with manufacturers = 2 No = 0	
5	Testing Facility and Practices	30%		
5.1	Please provide proof of calibration of all test equipment		Calibrated within date, done by accredited person, and traceable = 3 Calibrated within date, done by accredited person = 2 Not calibrated = 0	
5.2	Test capabilities		Fully capable of performing sample and routine tests, and is traceable = 3 Fully capable of performing sample and routine tests, and is not traceable = 2 Capable of performing routine tests only = 1 Cannot perform any tests = 0	
5.3	Electrical in-house testing (if applicable)		Within required standards, and traceable = 3 If N/A = 0 Within required standards but not traceable = 2 Not within required standards = 0	
5.4	Mechanical in-house testing		Within required standards and traceable = 3 Within required standards but not traceable = 2 Not within required standards = 0	
5.5	Dimensional verification checking		Within required standards, and traceable = 3 Within required standards but not traceable = 2 Not within required standards = 0	
5.6	Test object laboratory setup		Within required standards, and traceable (or N/A) = 3 Not within required standards = 0	

ESKOM COPYRIGHT PROTECTED

When downloaded from the WEB, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorized version on the WEB.

Document Classification: Controlled Disclosure**TECHNICAL EVALUATION CRITERIA FOR DX HV OVERHEAD POWERLINES
COMPRESSION FITTINGS AND CLAMPS**Unique Identifier: **240-171000175**Revision: **1**Page: **19 of 180**

No	Technical Questions	Score	Criteria	Evidence and Comments
5.7	RIV tests (if applicable)		Within required standards, and traceable (or N/A) = 3 Not within required standards = 0	
5.8	Reports, timeousness, quality thereof		All test reports produced immediately, checked by accredited person, and is traceable = 3 All test reports produced immediately, not checked by accredited person and is traceable = 2 Test reports produced but not accredited nor traceable = 1 No test report available = 0	
5.9	Is the test bay area closed off?		Yes = 3 Partially closed off = 2 Not closed off = 0	
5.10	Clean conditions in workshop		Clean-room environment (dust-free, static-free) = 3 Workshop is clean overall = 2 Workshop is fairly clean = 1 Workshop not clean = 0	
6	Research and Development capabilities	8%		
6.1	Do you own your R&D? If not, who are R&D partners?		In-house R&D exists= 2 No in-house R&D = 0	
6.2	How is R&D triggered in your organisation?		Clear triggers for R&D – optimising for performance or cost, continuous improvement (e.g., new materials, component designs), and traceable = 2 Clear triggers for R&D – optimising for performance or cost, continuous improvement but not traceable = 1 R&D supported, but no clear mandate = 0.5 No support or mandate for R&D = 0	

ESKOM COPYRIGHT PROTECTED

When downloaded from the WEB, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorized version on the WEB.

Document Classification: Controlled Disclosure

**TECHNICAL EVALUATION CRITERIA FOR DX HV OVERHEAD POWERLINES
COMPRESSION FITTINGS AND CLAMPS**

Unique Identifier: **240-171000175**

Revision: **1**

Page: **20 of 180**

No	Technical Questions	Score	Criteria	Evidence and Comments
6.3	What initiatives are you pursuing to introduce new technology?		Pursuing newest technology actively = 2 No research into the new technology = 0	
6.4	Do you outsource your designs? How much of your designs are outsourced? What controls are in place?		Do not outsource = 2 Outsource, accredited and validation should be current, controls should be in place = 1 Outsource but not accredited and validation, no clear controls = 0	
	Total	100%		

Notes:

- The Level 4 Threshold is 80.00%.
- Submissions meeting 80.00% of the Level 4 requirements will be awarded a result of Fully Compliant or Compliant with Qualifications, as determined by the Technical Evaluation Team.
- Submissions failing to meet 80.00% of the Level 4 requirements will be deemed non-compliant; the submission will be awarded a result of non-compliant.

ESKOM COPYRIGHT PROTECTED

When downloaded from the WEB, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorized version on the WEB.

4. Authorization

This document has been seen and accepted by:

Name and surname	Designation
Azwimbavhi Mamanyuha	General Manager: Technology and Engineering
Mfundi Songo	Senior Manager: Technology and Engineering
Aron Rondganger	Acting Senior Manager: Asset Creation (Cape Coastal Cluster)
Thandiwe Nkambule	Senior Manager: Asset Creation (Gemma Cluster)
Brenda Cebekhulu	Senior Manager: Asset Creation (Central East Cluster)
Sylvester Barei	Senior Manager: Asset Creation (Gauteng Cluster)
Pravind Orrie	Senior Manager: Asset Creation (Limplanga Cluster)
Matthews Baloyi	Senior Engineer: LOU
Thando Landela	Senior Engineer: NWOU
Heini Mocke	Design Engineer: FSOU
Thabo Mazibuko	Senior Engineer: GOU
Mandla Thobejane	Design Engineer: GOU
Luvo Ntseke	Design Technician: ECOU
Masturah Barodien	Design Engineer: WCOU
Jayant Raghubir	Senior Engineer: KZNOU
Luthando Puza	Design Engineer: MOU
Neal Bodger	Senior Technician: KZNOU
Miguel Da Corte Carreira	Senior Technician: FSOU
Fanie Masango	Senior Advisor Asset Management: NWOU
Nozipho Mkansi	Design Engineer: LOU
Winnie Mokoena	Design Engineer: GOU
Redz Pillay	Senior Engineer: GOU
Phutheho Moabi	Design Technician: KZNOU
Athelene Gouws	Senior Engineer: NWOU
Robcy Malinda	Senior Technician: MOU

5. Revisions

Date	Rev.	Compiler	Remarks
June 2023	1	L.S Sangweni	First Issue

6. Development team

The following people were involved in the development of this document:

- Lucy Sangweni

ESKOM COPYRIGHT PROTECTED

7. Acknowledgements

Not applicable.

Annex A – Compression Fittings and Clamps Technical Evaluation Criteria

Table A.1: Compression Dead-End Clamp Assembly for ACSR Hare conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	Compression Dead-End Clamp Assembly for ACSR Hare conductor	
2.2	Drawing number & Revision number	D-DT 7000	
2.3	SAP No	402497	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Compression fitting unit suitable for conductor:		
2.9.1	Main conductor (code name)	ACSR HARE Conductor Dia. 14.16mm	
2.9.2	Tap conductor (code name)	ACSR HARE Conductor Dia. 14.16mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7000	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Alloy used for outer tube and flag	Aluminium alloy	
4.1.2.1	Outside Diameter	Required	
4.1.2.2	Inside Diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Required	
4.1.5.1	Outside Diameter	Required	
4.1.5.2	Inside Diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	As in D-DT 7000	
4.1.7	Charpy V-notch test results	8J at -10 °C	
4.1.8	Bolt and nut material	Refer to 240-75883154	
4.1.9	Bolt/Nut tightening torque	<75Nm	
4.1.10	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	Nominal System Voltage (Un)	132kV	
4.3.4	Maximum System Voltage (Um)	145kV	
4.3.5	Current carrying capacity under normal operating conditions	>376 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>496 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test, Sample test and Routine tests	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test and sample test	
5.8	Tensile test	Type tests only	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Heat cycle test	Type tests only	
5.11	Short Circuit test	Type tests only	
5.12	Corrosion test	Type tests only	
5.13	Drift test	Type test, Sample test and Routine tests	
5.14	Magnetic losses test	Type test, Sample test and Routine tests	
5.15	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.2: Compression Dead-End Clamp Assembly for ACSR Chicadee Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	Compression Dead-End Clamp Assembly for ACSR Chicadee Conductor	
2.2	Drawing number & Revision number	D-DT 7000	
2.3	SAP No	168745	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
2.9	Compression fitting unit suitable for conductor:		
2.9.1	Main conductor (code name)	ACSR Chicadee Conductor Dia. 18.87mm	
2.9.2	Tap conductor (code name)	ACSR Chicadee Conductor Dia. 18.87mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7000	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Alloy used for outer tube and flag	Aluminium alloy	
4.1.2.1	Outside Diameter	Required	
4.1.2.2	Inside Diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Required	
4.1.5.1	Outside Diameter	Required	
4.1.5.2	Inside Diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	As in D-DT 7000	
4.1.7	Charpy V-notch test results	8J at -10 °C	
4.1.8	Bolt and nut material	Refer to 240-75883154	
4.1.9	Bolt/Nut tightening torque	<75Nm	
4.1.10	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	Nominal System Voltage (Un)	132kV	
4.3.4	Maximum System Voltage (Um)	145kV	
4.3.5	Current carrying capacity under normal operating conditions	>559 Amps	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.3.6	Current carrying capacity under Emergency operating conditions	>761 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test, Sample test and Routine tests	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test and sample test	
5.8	Tensile test	Type tests only	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Heat cycle test	Type tests only	
5.11	Short Circuit test	Type tests only	
5.12	Corrosion test	Type tests only	
5.13	Drift test	Type test, Sample test and Routine tests	
5.14	Magnetic losses test	Type test, Sample test and Routine tests	
5.15	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.3: Compression Dead-End Clamp Assembly for ACSR Kingbird Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	Compression Dead-End Clamp Assembly for ACSR Kingbird Conductor	
2.2	Drawing number & Revision number	D-DT 7000	
2.3	SAP No	168747	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Compression fitting unit suitable for conductor:		
2.9.1	Main conductor (code name)	ACSR Kingbird Conductor Dia. 23.9mm	
2.9.2	Tap conductor (code name)	ACSR Kingbird Conductor Dia. 23.9mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7000	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Alloy used for outer tube and flag	Aluminium alloy	
4.1.2.1	Outside Diameter	Required	
4.1.2.2	Inside Diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Required	
4.1.5.1	Outside Diameter	Required	
4.1.5.2	Inside Diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	As in D-DT 7000	
4.1.7	Charpy V-notch test results	8J at -10 °C	
4.1.8	Bolt and nut material	Refer to 240-75883154	
4.1.9	Bolt/Nut tightening torque	<75Nm	
4.1.10	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	Nominal System Voltage (Un)	132kV	
4.3.4	Maximum System Voltage (Um)	145kV	
4.3.5	Current carrying capacity under normal operating conditions	>771 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>1045 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test, Sample test and Routine tests	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test and sample test	
5.8	Tensile test	Type tests only	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Heat cycle test	Type tests only	
5.11	Short Circuit test	Type tests only	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
5.12	Corrosion test	Type tests only	
5.13	Drift test	Type test, Sample test and Routine tests	
5.14	Magnetic losses test	Type test, Sample test and Routine tests	
5.15	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.4: Compression Dead-End Clamp Assembly for ACSR Tern Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	Compression Dead-End Clamp Assembly for ACSR Tern Conductor	
2.2	Drawing number & Revision number	D-DT 7000	
2.3	SAP No	168748	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Compression fitting unit suitable for conductor:		
2.9.1	Main conductor (code name)	ACSR Tern Conductor Dia. 27mm	
2.9.2	Tap conductor (code name)	ACSR Tern Conductor Dia. 27mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7000	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Alloy used for outer tube and flag	Aluminium alloy	
4.1.2.1	Outside Diameter	Required	
4.1.2.2	Inside Diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Required	
4.1.5.1	Outside Diameter	Required	
4.1.5.2	Inside Diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	As in D-DT 7000	
4.1.7	Charpy V-notch test results	8J at -10 °C	
4.1.8	Bolt and nut material	Refer to 240-75883154	
4.1.9	Bolt/Nut tightening torque	<75Nm	
4.1.10	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	Nominal System Voltage (Un)	132kV	
4.3.4	Maximum System Voltage (Um)	145kV	
4.3.5	Current carrying capacity under normal operating conditions	>894 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>1231 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test, Sample test and Routine tests	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test and sample test	
5.8	Tensile test	Type tests only	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Heat cycle test	Type tests only	
5.11	Short Circuit test	Type tests only	
5.12	Corrosion test	Type tests only	
5.13	Drift test	Type test, Sample test and Routine tests	
5.14	Magnetic losses test	Type test, Sample test and Routine tests	
5.15	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.5: Compression Dead-End Clamp Assembly for ACSR Tiger Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	Compression Dead-End Clamp Assembly for ACSR Tiger Conductor	
2.2	Drawing number & Revision number		
2.3	SAP No		
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Compression fitting unit suitable for conductor:		
2.9.1	Main conductor (code name)	ACSR Tiger Conductor Dia. 16.52mm	
2.9.2	Tap conductor (code name)	ACSR Tiger Conductor Dia. 16.52mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide		
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Alloy used for outer tube and flag	Aluminium alloy	
4.1.2.1	Outside diameter	Required	
4.1.2.2	Inside diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Required	
4.1.5.1	Outside diameter	Required	
4.1.5.2	Inside diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA7 and DS8	
4.1.7	Charpy V-notch test results	8J at -10 °C	
4.1.8	Bolt and nut material	Refer to 240-75883154	
4.1.9	Bolt/Nut tightening torque	<75Nm	
4.1.10	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	Nominal System Voltage (Un)	132kV	
4.3.4	Maximum System Voltage (Um)	145kV	
4.3.5	Current carrying capacity under normal operating conditions	>444 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>593 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test, Sample test and Routine tests	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test and sample test	
5.8	Tensile test	Type tests only	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Heat cycle test	Type tests only	
5.11	Short Circuit test	Type tests only	
5.12	Corrosion test	Type tests only	
5.13	Drift test	Type test, Sample test and Routine tests	
5.14	Magnetic losses test	Type test, Sample test and Routine tests	
5.15	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.6: Compression Dead-End Clamp Assembly for ACSR Rail Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	Compression Dead-End Clamp Assembly for ACSR Rail Conductor	
2.2	Drawing number & Revision number		
2.3	SAP No		
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Compression fitting unit suitable for conductor:		
2.9.1	Main conductor (code name)	ACSR Rail Conductor Dia. 29.59mm	
2.9.2	Tap conductor (code name)	ACSR Rail Conductor Dia. 29.59mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide		
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Alloy used for outer tube and flag	Aluminium alloy	
4.1.2.1	Outside diameter	Required	
4.1.2.2	Inside diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Required	
4.1.5.1	Outside diameter	Required	
4.1.5.2	Inside diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA-11 and DS-10	
4.1.7	Charpy V-notch test results	8J at -10 °C	
4.1.8	Bolt and nut material	Refer to 240-75883154	
4.1.9	Bolt/Nut tightening torque	<75Nm	
4.1.10	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	Nominal System Voltage (Un)	132kV	
4.3.4	Maximum System Voltage (Um)	145kV	
4.3.5	Current carrying capacity under normal operating conditions	>1101 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>1408 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test, Sample test and Routine tests	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test and sample test	
5.8	Tensile test	Type tests only	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Heat cycle test	Type tests only	
5.11	Short Circuit test	Type tests only	
5.12	Corrosion test	Type tests only	
5.13	Drift test	Type test, Sample test and Routine tests	
5.14	Magnetic losses test	Type test, Sample test and Routine tests	
5.15	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.7: Compression Dead-End Clamp Assembly for ACSR Bear Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	Compression Dead-End Clamp Assembly for ACSR Bear Conductor	
2.2	Drawing number & Revision number	D-DT 7000	
2.3	SAP No	0010838	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Compression fitting unit suitable for conductor:		
2.9.1	Main conductor (code name)	ACSR Bear Conductor Dia. 23.45mm	
2.9.2	Tap conductor (code name)	ACSR Bear Conductor Dia. 23.45mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7000	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Alloy used for outer tube and flag	Aluminium alloy	
4.1.2.1	Outside Diameter	Required	
4.1.2.2	Inside Diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Required	
4.1.5.1	Outside Diameter	Required	
4.1.5.2	Inside Diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	As in D-DT 7000	
4.1.7	Charpy V-notch test results	8J at -10 °C	
4.1.8	Bolt and nut material	Refer to 240-75883154	
4.1.9	Bolt/Nut tightening torque	<75Nm	
4.1.10	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	Nominal System Voltage (Un)	132kV	
4.3.4	Maximum System Voltage (Um)	145kV	
4.3.5	Current carrying capacity under normal operating conditions	>706 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>962 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test, Sample test and Routine tests	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test and sample test	
5.8	Tensile test	Type tests only	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Heat cycle test	Type tests only	
5.11	Short Circuit test	Type tests only	
5.12	Corrosion test	Type tests only	
5.13	Drift test	Type test, Sample test and Routine tests	
5.14	Magnetic losses test	Type test, Sample test and Routine tests	
5.15	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.8: Compression Dead-End Clamp Assembly for ACSR Wolf Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	Compression Dead-End Clamp Assembly for ACSR Wolf Conductor	
2.2	Drawing number & Revision number	D-DT 7000	
2.3	SAP No	0402499	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Compression fitting unit suitable for conductor:		

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
2.9.1	Main conductor (code name)	ACSR Wolf Conductor Dia. 18.13mm	
2.9.2	Tap conductor (code name)	ACSR Wolf Conductor Dia. 18.13mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7000	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Alloy used for outer tube and flag	Aluminium alloy	
4.1.2.1	Outside Diameter	Required	
4.1.2.2	Inside Diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Required	
4.1.5.1	Outside Diameter	Required	
4.1.5.2	Inside Diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	As in D-DT 7000	
4.1.7	Charpy V-notch test results	8J at -10 °C	
4.1.8	Bolt and nut material	Refer to 240-75883154	
4.1.9	Bolt/Nut tightening torque	<75Nm	
4.1.10	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	Nominal System Voltage (Un)	132kV	
4.3.4	Maximum System Voltage (Um)	145kV	
4.3.5	Current carrying capacity under normal operating conditions	>498 Amps	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.3.6	Current carrying capacity under Emergency operating conditions	>671 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test, Sample test and Routine tests	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test and sample test	
5.8	Tensile test	Type tests only	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Heat cycle test	Type tests only	
5.11	Short Circuit test	Type tests only	
5.12	Corrosion test	Type tests only	
5.13	Drift test	Type test, Sample test and Routine tests	
5.14	Magnetic losses test	Type test, Sample test and Routine tests	
5.15	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.9: Compression Dead-End Clamp Assembly for ACSR Mink Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	Compression Dead-End Clamp Assembly for ACSR Mink Conductor	
2.2	Drawing number & Revision number	D-DT 7000	
2.3	SAP No	0175745	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Compression fitting unit suitable for conductor:		
2.9.1	Main conductor (code name)	ACSR Mink Conductor Dia. 10.98mm	
2.9.2	Tap conductor (code name)	ACSR Mink Conductor Dia. 10.98mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7000	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Alloy used for outer tube and flag	Aluminium alloy	
4.1.2.1	Outside Diameter	Required	
4.1.2.2	Inside Diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Required	
4.1.5.1	Outside Diameter	Required	
4.1.5.2	Inside Diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	As in D-DT 7000	
4.1.7	Charpy V-notch test results	8J at -10 °C	
4.1.8	Bolt and nut material	Refer to 240-75883154	
4.1.9	Bolt/Nut tightening torque	<75Nm	
4.1.10	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	Nominal System Voltage (Un)	132kV	
4.3.4	Maximum System Voltage (Um)	145kV	
4.3.5	Current carrying capacity under normal operating conditions	>270 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>361 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test, Sample test and Routine tests	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test and sample test	
5.8	Tensile test	Type tests only	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Heat cycle test	Type tests only	
5.11	Short Circuit test	Type tests only	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
5.12	Corrosion test	Type tests only	
5.13	Drift test	Type test, Sample test and Routine tests	
5.14	Magnetic losses test	Type test, Sample test and Routine tests	
5.15	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.10: Compression Dead-End Clamp Assembly for ACSR Zebra Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	Compression Dead-End Clamp Assembly for ACSR Zebra Conductor	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	0010836	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Compression fitting unit suitable for conductor:		
2.9.1	Main conductor (code name)	ACSR Zebra Conductor Dia. 28.62mm	
2.9.2	Tap conductor (code name)	ACSR Zebra Conductor Dia. 28.62mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7000	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Alloy used for outer tube and flag	Aluminium alloy	
4.1.2.1	Outside Diameter	Required	
4.1.2.2	Inside Diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Required	
4.1.5.1	Outside Diameter	Required	
4.1.5.2	Inside Diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	As in D-DT 7000	
4.1.7	Charpy V-notch test results	8J at -10 °C	
4.1.8	Bolt and nut material	Refer to 240-75883154	
4.1.9	Bolt/Nut tightening torque	<75Nm	
4.1.10	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	Nominal System Voltage (Un)	132kV	
4.3.4	Maximum System Voltage (Um)	145kV	
4.3.5	Current carrying capacity under normal operating conditions	>938 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>1285 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test, Sample test and Routine tests	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test and sample test	
5.8	Tensile test	Type tests only	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Heat cycle test	Type tests only	
5.11	Short Circuit test	Type tests only	
5.12	Corrosion test	Type tests only	
5.13	Drift test	Type test, Sample test and Routine tests	
5.14	Magnetic losses test	Type test, Sample test and Routine tests	
5.15	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.11: Compression Dead-End Clamp Assembly for ACSR BERSFORT Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	Compression Dead-End Clamp Assembly for ACSR BERSFORT Conductor	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	0210977	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Compression fitting unit suitable for conductor:		
2.9.1	Main conductor (code name)	ACSR BERSFORT Conductor Dia. 35.56mm	
2.9.2	Tap conductor (code name)	ACSR BERSFORT Conductor Dia. 35.56mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7000	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Alloy used for outer tube and flag	Aluminium alloy	
4.1.2.1	Outside Diameter	Required	
4.1.2.2	Inside Diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Required	
4.1.5.1	Outside Diameter	Required	
4.1.5.2	Inside Diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	As in D-DT 7000	
4.1.7	Charpy V-notch test results	8J at -10 °C	
4.1.8	Bolt and nut material	Refer to 240-75883154	
4.1.9	Bolt/Nut tightening torque	<75Nm	
4.1.10	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	Nominal System Voltage (Un)	132kV	
4.3.4	Maximum System Voltage (Um)	145kV	
4.3.5	Current carrying capacity under normal operating conditions	>1304 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>1814 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test, Sample test and Routine tests	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test and sample test	
5.8	Tensile test	Type tests only	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Heat cycle test	Type tests only	
5.11	Short Circuit test	Type tests only	
5.12	Corrosion test	Type tests only	
5.13	Drift test	Type test, Sample test and Routine tests	
5.14	Magnetic losses test	Type test, Sample test and Routine tests	
5.15	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.12: Compression Dead-End Clamp Assembly for AAAC ASH Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	Compression Dead-End Clamp Assembly for AAAC ASH Conductor	
2.2	Drawing number & Revision number		
2.3	SAP No		
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Compression fitting unit suitable for conductor:		
2.9.1	Main conductor (code name)	AAAC Ash Conductor Dia. 17.40mm	
2.9.2	Tap conductor (code name)	AAAC Ash Conductor Dia. 17.40mm	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide		
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Alloy used for outer tube and flag	Aluminium alloy	
4.1.2.1	Outside diameter	Required	
4.1.2.2	Inside diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Required	
4.1.5.1	Outside diameter	Required	
4.1.5.2	Inside diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA7	
4.1.7	Charpy V-notch test results	8J at -10 °C	
4.1.8	Bolt and nut material	Refer to 240-75883154	
4.1.9	Bolt/Nut tightening torque	<75Nm	
4.1.10	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	Nominal System Voltage (Un)	132kV	
4.3.4	Maximum System Voltage (Um)	145kV	
4.3.5	Current carrying capacity under normal operating conditions	>523 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>700 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test, Sample test and Routine tests	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test and sample test	
5.8	Tensile test	Type tests only	

5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Heat cycle test	Type tests only	
5.11	Short Circuit test	Type tests only	
5.12	Corrosion test	Type tests only	
5.13	Drift test	Type test, Sample test and Routine tests	
5.14	Magnetic losses test	Type test, Sample test and Routine tests	
5.15	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.13: Compression Dead-End Clamp Assembly for AAAC OAK Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	Compression Dead-End Clamp Assembly for AAAC OAK Conductor	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	0220716	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Compression fitting unit suitable for conductor:		
2.9.1	Main conductor (code name)	AAAC OAK Conductor Dia. 13.95mm	
2.9.2	Tap conductor (code name)	AAAC OAK Conductor Dia. 13.95mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7000	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Alloy used for outer tube and flag	Aluminium alloy	
4.1.2.1	Outside Diameter	Required	
4.1.2.2	Inside Diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Required	
4.1.5.1	Outside Diameter	Required	
4.1.5.2	Inside Diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	As in D-DT 7000	
4.1.7	Charpy V-notch test results	8J at -10 °C	
4.1.8	Bolt and nut material	Refer to 240-75883154	
4.1.9	Bolt/Nut tightening torque	<75Nm	
4.1.10	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	Nominal System Voltage (Un)	132kV	
4.3.4	Maximum System Voltage (Um)	145kV	
4.3.5	Current carrying capacity under normal operating conditions	>391 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>530 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test, Sample test and Routine tests	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test and sample test	
5.8	Tensile test	Type tests only	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Heat cycle test	Type tests only	
5.11	Short Circuit test	Type tests only	
5.12	Corrosion test	Type tests only	
5.13	Drift test	Type test, Sample test and Routine tests	
5.14	Magnetic losses test	Type test, Sample test and Routine tests	
5.15	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.14: Suspension Clamp for Steel wire 7/3.35 Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	Suspension Clamp for Steel wire 7/3.35 Conductor	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	0165524	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Clamp Suspension fitting unit suitable for conductor:	Steel wire 7/3.35 Dia. 10.05mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7003	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	Long Flat Bar	70 x 16 x 115	
4.1.1.2	Bolt to Bolt Centres	75mm	
4.1.1.3	Inside Diameter	15.7mm	
4.1.2	Material Grade:	MILD STEEL HOT DIPPED GALVANISED	
4.1.3	Supplied with:	2 x M12 x 65mm LONG HEX. BOLTS, 2 x M12 GRADE 4.8 HEXAGON NUTS, 2 x M12 FLAT WASHERS AND 2 x M12 SPRING WASHERS	
4.1.4	Charpy V-notch test results	8J at -10 °C	
4.1.5	Bolt and nut material	Refer to 240-75883154	
4.1.6	Bolt/Nut tightening torque	<75Nm	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	Ambient temperature	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test and Sample test	
5.8	Slip test	Type tests and Sample test	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Corrosion test	Type tests only	
5.12	Drift test	Type test, Sample test and Routine tests	
5.13	Magnetic losses test	Type test	
5.14	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.15: Clamp Suspension for Steel wire 19/2.65 Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	Clamp Suspension for Steel wire 19/2.65 Conductor	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	0243443	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Clamp Suspension fitting unit suitable for conductor:	Steel wire 19/2.65 Dia. 13.25mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7003	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	Long Flat Bar	70 x 20 x 115	
4.1.1.2	Bolt to Bolt Centres	75mm	
4.1.1.3	Inside Diameter	20.7mm	
4.1.2	Material Grade:	MILD STEEL HOT DIPPED GALVANISED	
4.1.3	Supplied with:	2 x M12 x 65mm LONG HEX. BOLTS, 2 x M12 GRADE 4.8 HEXAGON NUTS 2 x M12 FLAT WASHERS AND 2 x M12 SPRING WASHERS	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.1.4	Charpy V-notch test results	8J at -10 °C	
4.1.5	Bolt and nut material	Refer to 240-75883154	
4.1.6	Bolt/Nut tightening torque	<75Nm	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	Ambient temperature	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test and Sample test	
5.8	Slip test	Type tests and Sample test	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Corrosion test	Type tests only	
5.12	Drift test	Type test, Sample test and Routine tests	
5.13	Magnetic losses test	Type test	
5.14	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.16: DOUBLE OPENING SUSPENSION CLAMP For steel wire 7/3.35 and 19/2.65

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	DOUBLE OPENING SUSPENSION CLAMP For steel wire 7/3.35 and 19/2.65	
2.2	Drawing number & Revision number	D-DT 7004	
2.3	SAP No	0243437	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
2.9	Double Opening Suspension fitting unit suitable for conductor:	Steel wire 7/3.35 and 19/2.65 Dia. 10.05 to 13.25mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7004	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	Long Flat Bar	M16 X 41 X 65	
4.1.1.2	Inside Diameter	17.5mm	
4.1.2	Material Grade:	MILD STEEL DIPPED GALVANISED HOT	
4.1.3	Supplied with:	1 X M16 X 60MM HEX BOLT, M16 HEXAGON NUT 1 X M16 SPRING WASHER	1 X
4.1.4	Charpy V-notch test results	8J at -10 °C	
4.1.5	Bolt and nut material	Refer to 240-75883154	
4.1.6	Bolt/Nut tightening torque	<75Nm	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	Ambient temperature	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test and Sample test	
5.8	Slip test	Type tests and Sample test	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Corrosion test	Type tests only	
5.12	Drift test	Type test, Sample test and Routine tests	
5.13	Magnetic losses test	Type test	
5.14	Corona and RIV test	Type test	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
6	Comments and Deviations:		

Table A.17: PISTOL CLAMP for conductor range: 16-5mm Dia.

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	PISTOL CLAMP for conductor range: 16-5mm Dia.	
2.2	Drawing number & Revision number	D-DT 7022	
2.3	SAP No	0401307	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Pistol Clamp Suspension unit suitable for conductor:	Steel wires 3X3.35; 3X4.00; 7X3.35 AND 19X2.65	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7022	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	Clevis dimension	TO SANS 60471 DESIGNATION 16L	
4.1.1.2	NOMINAL COUPLING LENGTH	100mm	
4.1.2	Material Grade:	MALLEABLE CAST IRON	
4.1.3	Supplied with:	1 X M16 X 75MM CLEVIS BOLT ASSEMBLY, 3 X GALVANISED STEEL 12MM U-BOLTS WITH 6 X SPRING WASHERS, 6 X M12 HEXAGON NUT (D-DT-3173), AND MALLEABLE IRON KEEPER;	
4.1.7	Charpy V-notch test results	8J at -10 °C	
4.1.8	Bolt and nut material	Refer to 240-75883154	
4.1.9	Bolt/Nut tightening torque	<75Nm	
4.1.10	Tension capacity	120kN	
4.1.11	Tension Lip	To be Cast NOT Ground	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.2.12	All Moulding Lines to be Removed on Inside of Clamp	YES	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test and Sample test	
5.8	Heat cycle test	Type tests	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Corrosion test	Type tests only	
5.12	Drift test	Type test, Sample test and Routine tests	
5.13	Magnetic losses test	Type test	
5.14	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.18: PISTOL CLAMP for conductor range: 15-6mm Dia.

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	PISTOL CLAMP for conductor range: 15-6mm Dia..	
2.2	Drawing number & Revision number	D-DT 7022	
2.3	SAP No	0401310	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Pistol Clamp Suspension unit suitable for conductor:	Squirrel, Fox, Mink and Hare ACSR Conductors	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7022	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	Clevis dimension	TO SANS 60471 DESIGNATION 16L	
4.1.2	Material Grade:	HEAT TREATED DIE CAST LM25 ALUMINIUM	
4.1.3	Supplied with:	1 X M16 X 65MM CLEVIS BOLT ASSEMBLY, 3 X GALVANISED STEEL 12MM U-BOLTS WITH 6 X SPRING WASHERS, 6 X M12 HEXAGON NUT AND DIE CAST ALUMINIUM KEEPER;	
4.1.4	Charpy V-notch test results	8J at -10 °C	
4.1.5	Bolt and nut material	Refer to 240-75883154	
4.1.6	Bolt/Nut tightening torque	<75Nm	
4.1.7	Tension capacity	120kN	
4.1.8	Tension Lip	To be Cast NOT Ground	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating:		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.2.12	ALL MOULDING LINES TO BE REMOVED ON INSIDE OF CLAMP	YES	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test and Sample test	
5.8	Heat cycle test	Type tests	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Corrosion test	Type tests only	
5.12	Drift test	Type test, Sample test and Routine tests	
5.13	Magnetic losses test	Type test	
5.14	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.19: PISTOL CLAMP for conductor range: 15-6mm Dia.

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	PISTOL CLAMP for conductor range: 15-6mm Dia.	
2.2	Drawing number & Revision number	D-DT 7022	
2.3	SAP No	0401310	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Pistol Clamp Suspension unit suitable for conductor:	Squirrel, Fox, Mink and Hare ACSR Conductors	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7022	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	Clevis dimension	TO SANS 60471 DESIGNATION 16L	
4.1.2	Material Grade:	HEAT TREATED DIE CAST LM25 ALUMINIUM	
4.1.3	Supplied with:	1 X M16 X 65MM CLEVIS BOLT ASSEMBLY, 3 X GALVANISED STEEL 12MM U-BOLTS WITH 6 X SPRING WASHERS, 6 X M12 HEXAGON NUT AND DIE CAST ALUMINIUM KEEPER;	
4.1.4	Charpy V-notch test results	8J at -10 °C	
4.1.5	Bolt and nut material	Refer to 240-75883154	
4.1.6	Bolt/Nut tightening torque	<75Nm	
4.1.7	Tension capacity	120kN	
4.1.8	Tension Lip	To be Cast NOT Ground	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating:		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.2.12	ALL MOULDING LINES TO BE REMOVED ON INSIDE OF CLAMP	YES	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.3.3	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test and Sample test	
5.8	Heat cycle test	Type tests	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Corrosion test	Type tests only	
5.12	Drift test	Type test, Sample test and Routine tests	
5.13	Magnetic losses test	Type test	
5.14	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.20: PISTOL CLAMP for conductor range: 18-30mm Dia.

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	PISTOL CLAMP for conductor range: 18-30mm Dia..	
2.2	Drawing number & Revision number	D-DT 7022	
2.3	SAP No	0243440	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Pistol Clamp Suspension unit suitable for conductor:	Chicadee and Kingbird ACSR Conductors	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7022	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	Clevis dimension	TO SANS 60471 DESIGNATION 16L	
4.1.2	Material Grade:	HEAT TREATED DIE CAST LM25 ALUMINIUM	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.1.3	Supplied with:	1 X M16 X 65 MM CLEVIS BOLT ASSEMBLY, 3 X GALVANISED STEEL 12 MM U-BOLTS WITH 6 X SPRING WASHERS, 6 X M12 HEXAGON NUT AND DIE CAST ALUMINIUM KEEPER	
4.1.4	Charpy V-notch test results	8J at -10 °C	
4.1.5	Bolt and nut material	Refer to 240-75883154	
4.1.6	Bolt/Nut tightening torque	<75Nm	
4.1.7	Tension capacity	120kN	
4.1.8	Tension Lip	To be Cast NOT Ground	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating:		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.2.12	ALL MOULDING LINES TO BE REMOVED ON INSIDE OF CLAMP	YES	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test and Sample test	
5.8	Heat cycle test	Type tests	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Tensile test	Type test and Sample test	
5.12	Corrosion test	Type tests only	
5.13	Drift test	Type test, Sample test and Routine tests	
5.14	Magnetic losses test	Type test	
5.15	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.21: SUSPENSION PIVOTED CLAMP For Conductor range 25.0mm to 40mm Diameter

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	SUSPENSION PIVOTED CLAMP For Conductor range 25.0mm to 40mm Diameter	
2.2	Drawing number & Revision number	D-DT 7009	
2.3	SAP No	0402629	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Clamp Suspension Pivoted fitting unit suitable for conductor:	WOLF, CHICADEE, BEAR, KINGBIRD, CENTIPEDE	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7009	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	Clevis dimension	TO SANS 60471 DESIGNATION 16L	
4.1.1.2	NOMINAL COUPLING LENGTH	100mm	
4.1.2	Material Grade:	MALLEABLE CAST IRON HOT DIPPED GALVANISED OR HEAT-TREATED DIE CAST ALUMINIUM ALLOY	
4.1.3	Supplied with:	1 x M16 CLEVIS BOLT ASSEMBLY 4 x M12 SPRING WASHERS 4 x M12 HEX. BOLTS 2 x M12 U-BOLTS	
4.1.4	Charpy V-notch test results	8J at -10 °C	
4.1.5	Bolt and nut material	Refer to 240-75883154	
4.1.6	Bolt/Nut tightening torque	<75Nm	
4.1.7	Minimum failing load	70kN	
4.1.8	Supplied with Preformed Armor Rods for suitable conductor	YES	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating:		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test, Sample test and Routine tests	
5.8	Slip test	Type tests and Sample test	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Corrosion test	Type tests only	
5.12	Drift test	Type test, Sample test and Routine tests	
5.13	Magnetic losses test	Type test	
5.14	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.22: SUSPENSION CRADLE CLAMP for Steel Wires Diameter range 5mm to 17mm

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	SUSPENSION CRADLE CLAMP for Steel Wires Diameter range 5mm to 17mm	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	xxxxxxx	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Clamp Suspension Pivoted fitting unit suitable for conductor:	Steel wires 3X3.35; 3X4.00; 7X3.35 AND 19X2.65	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	Clevis dimension	TO SANS 60471 DESIGNATION 16L	
4.1.1.2	NOMINAL COUPLING LENGTH	100mm	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.1.2	Material Grade:	MALLEABLE CAST IRON HOT DIPPED GALVANISED	
4.1.3	Supplied with:	1 x M16 CLEVIS BOLT ASSEMBLY 4 x M12 SPRING WASHERS M12 HEX. BOLTS 2 x M12 U-BOLTS	4 x
4.1.4	Charpy V-notch test results	8J at -10 °C	
4.1.5	Bolt and nut material	Refer to 240-75883154	
4.1.6	Bolt/Nut tightening torque	<75Nm	
4.1.7	Minimum failing load	70kN	
4.1.8	Supplied with Preformed Armor Rods for suitable Steel Wires Cond.	YES	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating:		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		
5.1	Test authority (approved person/organisation)	SABS/CSIR	Report Number
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test, Sample test and Routine tests	
5.8	Slip test	Type tests and Sample test	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Corrosion test	Type tests only	
5.12	Drift test	Type test, Sample test and Routine tests	
5.13	Magnetic losses test	Type test	
5.14	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.23: CROSBY CLAMP For Conductor range Steel Wire Rope 13mm Diameter

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	CROSBY CLAMP For Conductor range Steel Wire Rope 13mm Diameter	
2.2	Drawing number & Revision number	D-DT 7032	
2.3	SAP No.	0400083	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Crosby Clamp fitting unit suitable for conductor:	Wire Rope with Dia. 13mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with SANS 813	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7032	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties (in accordance with SANS 813)		
4.1.1	Material Grade:	DROP FORGED STEEL DIPPED GALVANISED	HOT
4.1.2	U-Bolt and nut material	Grade 6.8 of SANS 1700-5-11	
4.1.3	Drop forgings forged solid, without welds, in accordance with EN 10243-1 and EN 10243-2, from steel having the following physical requirements:		
4.1.3.1	Maximum Brinell number	123	
4.1.3.2	Maximum Vickers hardness	128	
4.1.3.3	Maximum Rockwell C hardness	70	
4.1.3.4	Minimum tensile strength	430 MPa	
4.1.3.5	Minimum yield strength	230 MPa	
4.1.3.6	Minimum elongation on a gauge length of	$5.65\sqrt{S_0} = 22\%$ where S0 is the cross-sectional area.	
4.1.3.7	Whiteheart malleable iron castings	Complying with the requirements of EN 1562	
4.1.3.8	Blackheart malleable iron castings	Complying with the requirements of EN 1562	
4.1.3.9	Iron castings with spheroidal or nodular graphite	Complying with the requirements for grade SG 38 or SG 42 of SANS 936.	
4.1.4	Nominal bolt Diameter	M12	
4.1.5	Bolt/Nut tightening torque	33Nm	
4.1.6	Joint test force	34.2kN	
4.1.7	Single Saddle Type	YES	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	One second Short-Circuit Current Rating Withstand	31.5kA	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
5	Test reports and certificates (According to SANS 813)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test, Sample test and Routine tests	
5.8	Slip test	Type tests and Sample test	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Corrosion test	Type tests only	
5.12	Drift test	Type test, Sample test and Routine tests	
5.13	Magnetic losses test	Type test	
5.14	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.24: CROSBY CLAMP For Conductor range Steel Wire Rope 16mm Diameter

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	CROSBY CLAMP For Conductor range Steel Wire Rope 16mm Diameter	
2.2	Drawing number & Revision number	D-DT 7032	
2.3	SAP No	0404246	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Crosby Clamp fitting unit suitable for conductor:	Wire Rope with Dia. 16mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with SANS 813	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7032	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties (in accordance with SANS 813)		
4.1.1	Material Grade:	DROP FORGED STEEL DIPPED GALVANISED	HOT
4.1.2	U-Bolt and nut material	Grade 6.8 of SANS 1700-5-11	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.1.3	Drop forgings forged solid, without welds, in accordance with EN 10243-1 and EN 10243-2, from steel having the following physical requirements:		
4.1.3.1	Maximum Brinell number	123	
4.1.3.2	Maximum Vickers hardness	128	
4.1.3.3	Maximum Rockwell C hardness	70	
4.1.3.4	Minimum tensile strength	430 MPa	
4.1.3.5	Minimum yield strength	230 MPa	
4.1.3.6	Minimum elongation on a gauge length of	$5.65\sqrt{S_0} = 22\%$ where S_0 is the cross-sectional area.	
4.1.3.7	Whiteheart malleable iron castings	Complying with the requirements of EN 1562	
4.1.3.8	Blackheart malleable iron castings	Complying with the requirements of EN 1562	
4.1.3.9	Iron castings with spheroidal or nodular graphite	Complying with the requirements for grade SG 38 or SG 42 of SANS 936.	
4.1.4	Nominal bolt Diameter	M14	
4.1.5	Bolt/Nut tightening torque	49Nm	
4.1.6	Joint test force	51.43kN	
4.1.7	Single Saddle Type	YES	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	$\leq 80\text{ }^\circ\text{C}$	
4.2.8.2	Maximum temperature under short-circuit condition	$\leq 200\text{ }^\circ\text{C}$	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	$\leq 80\text{ }^\circ\text{C}$	
4.3.2	Maximum temperature under short-circuit condition	$\leq 200\text{ }^\circ\text{C}$	
4.3.3	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 813)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test, Sample test and Routine tests	
5.8	Slip test	Type tests and Sample test	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Corrosion test	Type tests only	
5.12	Drift test	Type test, Sample test and Routine tests	
5.13	Magnetic losses test	Type test	
5.14	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.25: THIMBLE CLEVIS

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	THIMBLE CLEVIS	
2.2	Drawing number & Revision number	D-DT 7118	
2.3	SAP No	0701176	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.10	Compliance with IEC/SANS 61284	Test Certificates	
2.11	Compliance to critical dimensions on Buyers Guide	D-DT 7118	
2.12	Item sample required	YES	
2.13	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	Clevis dimension	TO SANS 60471 DESIGNATION 16L	
4.1.1.2	NOMINAL LENGTH	115mm x 96mm Width	
4.1.1.3	Clevis opening	18mm	
4.1.2	Material Grade:	MALLEABLE IRON HOT DIPPED GALVANISED	
4.1.3	Supplied with:	1x Humpback Split Pin 1 x M16 x 75mm CLEVIS BOLT ASSEMBLY	
4.1.4	Charpy V-notch test results	8J at -10 °C	
4.1.5	Bolt and nut material	Refer to 240-75883154	
4.1.6	Bolt/Nut tightening torque	<75Nm	
4.1.7	Tension capacity/ Minimum failing load	120kN	
4.1.8	Tension Lip	To be Cast NOT Ground	
4.1.9	ALL MOULDING LINES TO BE REMOVED ON INSIDE OF CLAMP	YES	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating:		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.3.3	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test, Sample test and Routine tests	
5.8	Tension test	Type tests and Sample test	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Corrosion test	Type tests only	
5.12	Drift test	Type test, Sample test and Routine tests	
5.13	Magnetic losses test	Type test	
5.14	Heat Cycle test	Type test	
5.15	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.26: Mid-Span Tension Joint for ACSR Mink Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Mid-Span Tension Joint for ACSR Mink Conductor	
2.2	Drawing number & Revision number	D-DT 7001	
2.3	SAP No	0175884	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Compression fitting unit suitable for conductor:		
2.9.1	Main conductor (code name)	ACSR MINK Conductor Dia. 10.98mm	
2.9.2	Tap conductor (code name)	ACSR MINK Conductor Dia. 10.98mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7001	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Aluminium	
4.1.2.1	Outside Diameter	Required	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.1.2.2	Inside Diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Steel	
4.1.5.1	Outside Diameter	Required	
4.1.5.2	Inside Diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA-6 & DS-6	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM 22.0mm (DA-6) AND STEEL 7.6mm (DS-6)	
4.1.7	Charpy V-notch test results	8J at -10 °C	
4.1.8	Bolt and nut material	Refer to 240-75883154	
4.1.9	Bolt/Nut tightening torque	<75Nm	
4.1.10	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>270 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>361 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test, Sample test and Routine tests	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test and sample test	
5.8	Tensile test	Type tests only	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Heat cycle test	Type tests only	
5.11	Short Circuit test	Type tests only	
5.12	Corrosion test	Type tests only	
5.13	Drift test	Type test, Sample test and Routine tests	
5.14	Magnetic losses test	Type test, Sample test and Routine tests	
5.15	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.27: Mid-Span Tension Joint for ACSR HARE Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Mid-Span Tension Joint for ACSR HARE Conductor	
2.2	Drawing number & Revision number	D-DT 7001	
2.3	SAP No	0165690	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Compression fitting unit suitable for conductor:		
2.9.1	Main conductor (code name)	ACSR HARE Conductor Dia. 14.16mm	
2.9.2	Tap conductor (code name)	ACSR HARE Conductor Dia. 14.16mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7001	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Aluminium	
4.1.2.1	Outside Diameter	Required	
4.1.2.2	Inside Diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Steel	
4.1.5.1	Outside Diameter	Required	
4.1.5.2	Inside Diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA-7 & DS-7	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM 25.4mm (DA-7) AND STEEL 10.1mm (DS-7)	
4.1.7	Charpy V-notch test results	8J at -10 °C	
4.1.8	Bolt and nut material	Refer to 240-75883154	
4.1.9	Bolt/Nut tightening torque	<75Nm	
4.1.10	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e. per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>376 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>496 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test, Sample test and Routine tests	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test and sample test	
5.8	Tensile test	Type tests only	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Heat cycle test	Type tests only	
5.11	Short Circuit test	Type tests only	
5.12	Corrosion test	Type tests only	
5.13	Drift test	Type test, Sample test and Routine tests	
5.14	Magnetic losses test	Type test, Sample test and Routine tests	
5.15	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.28: Mid-Span Tension Joint for ACSR WOLF Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Mid-Span Tension Joint for ACSR WOLF Conductor	
2.2	Drawing number & Revision number	D-DT 7001	
2.3	SAP No.	0401816	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
2.8	Catalogue reference number	xxxxxxx	
2.9	Compression fitting unit suitable for conductor:		
2.9.1	Main conductor (code name)	ACSR WOLF Conductor Dia. 18.13mm	
2.9.2	Tap conductor (code name)	ACSR WOLF Conductor Dia. 18.13mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7001	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Aluminium	
4.1.2.1	Outside Diameter	Required	
4.1.2.2	Inside Diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Steel	
4.1.5.1	Outside Diameter	Required	
4.1.5.2	Inside Diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA-8 & DS-8	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM 28.2mm (DA-8) AND STEEL 12.7mm (DS-8)	
4.1.7	Charpy V-notch test results	8J at -10 °C	
4.1.8	Bolt and nut material	Refer to 240-75883154	
4.1.9	Bolt/Nut tightening torque	<75Nm	
4.1.10	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>498 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>671 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test, Sample test and Routine tests	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test and sample test	
5.8	Tensile test	Type tests only	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Heat cycle test	Type tests only	
5.11	Short Circuit test	Type tests only	
5.12	Corrosion test	Type tests only	
5.13	Drift test	Type test, Sample test and Routine tests	
5.14	Magnetic losses test	Type test, Sample test and Routine tests	
5.15	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.29: Mid-Span Tension Joint for AAAC Ash Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Mid-Span Tension Joint for AAAC Ash	
2.2	Drawing number & Revision number		
2.3	SAP No		
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Compression fitting unit suitable for conductor:		
2.9.1	Main conductor (code name)	AAAC Ash Dia 17.40mm	
2.9.2	Tap conductor (code name)	AAAC Ash Dia 17.40mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	ALUMINIUM	
4.1.2.1	Outside diameter	Required	
4.1.2.2	Inside diameter	Required	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA-7	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM 25.4mm (DA-7)	
4.1.7	Charpy V-notch test results	8J at -10 °C	
4.1.8	Bolt and nut material	Refer to 240-75883154	
4.1.9	Bolt/Nut tightening torque	<75Nm	
4.1.10	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>523 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>700 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test, Sample test and Routine tests	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test and sample test	
5.8	Tensile test	Type tests only	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Heat cycle test	Type tests only	
5.11	Short Circuit test	Type tests only	
5.12	Corrosion test	Type tests only	
5.13	Drift test	Type test, Sample test and Routine tests	
5.14	Magnetic losses test	Type test, Sample test and Routine tests	
5.15	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.30: Mid-Span Tension Joint for ACSR Tiger Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Mid-Span Tension Joint for ACSR Tiger Conductor	
2.2	Drawing number & Revision number		
2.3	SAP No		
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Compression fitting unit suitable for conductor:		
2.9.1	Main conductor (code name)	ACSR TERN Conductor Dia 16.52 mm	
2.9.2	Tap conductor (code name)	ACSR TERN Conductor Dia 16.52 mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide		
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Aluminium	
4.1.2.1	Outside diameter	Required	
4.1.2.2	Inside diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Steel	
4.1.5.1	Outside diameter	Required	
4.1.5.2	Inside diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA-7 & DS-8	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM (DA-7) AND STEEL (DS-8)	
4.1.7	Charpy V-notch test results	8J at -10 °C	
4.1.8	Bolt and nut material	Refer to 240-75883154	
4.1.9	Bolt/Nut tightening torque	<75Nm	
4.1.10	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e. per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>444 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>593 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test, Sample test and Routine tests	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test and sample test	
5.8	Tensile test	Type tests only	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Heat cycle test	Type tests only	
5.11	Short Circuit test	Type tests only	
5.12	Corrosion test	Type tests only	
5.13	Drift test	Type test, Sample test and Routine tests	
5.14	Magnetic losses test	Type test, Sample test and Routine tests	
5.15	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.31: Mid-Span Tension Joint for ACSR Rail Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Mid-Span Tension Joint for ACSR Rail Conductor	
2.2	Drawing number & Revision number		
2.3	SAP No		
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Compression fitting unit suitable for conductor:		
2.9.1	Main conductor (code name)	ACSR Rail Conductor Dia. 29.59 mm	
2.9.2	Tap conductor (code name)	ACSR Rail Conductor Dia. 29.59 mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide		
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Aluminium	
4.1.2.1	Outside diameter	Required	
4.1.2.2	Inside diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Steel	
4.1.5.1	Outside diameter	Required	
4.1.5.2	Inside diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA-11 & DS-10	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM (DA-11) AND STEEL (DS-10)	
4.1.7	Charpy V-notch test results	8J at -10 °C	
4.1.8	Bolt and nut material	Refer to 240-75883154	
4.1.9	Bolt/Nut tightening torque	<75Nm	
4.1.10	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>1101 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>1408 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test, Sample test and Routine tests	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test and sample test	
5.8	Tensile test	Type tests only	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Heat cycle test	Type tests only	
5.11	Short Circuit test	Type tests only	
5.12	Corrosion test	Type tests only	
5.13	Drift test	Type test, Sample test and Routine tests	
5.14	Magnetic losses test	Type test, Sample test and Routine tests	
5.15	Corona and RIV test	Type test	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
6	Comments and Deviations:		

Table A.32: Mid-Span Tension Joint for ACSR CHICADEE Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Mid-Span Tension Joint for ACSR CHICADEE Conductor	
2.2	Drawing number & Revision number	D-DT 7001	
2.3	SAP No	0165768	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Compression fitting unit suitable for conductor:		
2.9.1	Main conductor (code name)	ACSR CHICADEE Conductor Dia. 18.87mm	
2.9.2	Tap conductor (code name)	ACSR CHICADEE Conductor Dia. 18.87mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7001	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Aluminium	
4.1.2.1	Outside Diameter	Required	
4.1.2.2	Inside Diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Steel	
4.1.5.1	Outside Diameter	Required	
4.1.5.2	Inside Diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
	ALCAN Die "index" identification number	As in D-DT 7001	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM 28.2mm (DA-8) AND STEEL 12.7mm (DS-8)	
4.1.7	Charpy V-notch test results	8J at -10 °C	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.1.8	Bolt and nut material	Refer to 240-75883154	
4.1.9	Bolt/Nut tightening torque	<75Nm	
4.1.10	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>559 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>761 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test, Sample test and Routine tests	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test and sample test	
5.8	Tensile test	Type tests only	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Heat cycle test	Type tests only	
5.11	Short Circuit test	Type tests only	
5.12	Corrosion test	Type tests only	
5.13	Drift test	Type test, Sample test and Routine tests	
5.14	Magnetic losses test	Type test, Sample test and Routine tests	
5.15	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.33: Mid-Span Tension Joint for ACSR BEAR Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Mid-Span Tension Joint for ACSR BEAR Conductor	
2.2	Drawing number & Revision number	D-DT 7001	
2.3	SAP No	0401590	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Compression fitting unit suitable for conductor:		
2.9.1	Main conductor (code name)	ACSR BEAR Conductor Dia. 23.45mm	
2.9.2	Tap conductor (code name)	ACSR BEAR Conductor Dia. 23.45mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7001	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Aluminium	
4.1.2.1	Outside Diameter	Required	
4.1.2.2	Inside Diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Steel	
4.1.5.1	Outside Diameter	Required	
4.1.5.2	Inside Diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA-9 & DS-10	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM 32.3mm (DA-9) AND STEEL 16.1mm (DS-10)	
4.1.7	Charpy V-notch test results	8J at -10 °C	
4.1.8	Bolt and nut material	Refer to 240-75883154	
4.1.9	Bolt/Nut tightening torque	<75Nm	
4.1.10	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>706 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>962 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test, Sample test and Routine tests	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test and sample test	
5.8	Tensile test	Type tests only	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Heat cycle test	Type tests only	
5.11	Short Circuit test	Type tests only	
5.12	Corrosion test	Type tests only	
5.13	Drift test	Type test, Sample test and Routine tests	
5.14	Magnetic losses test	Type test, Sample test and Routine tests	
5.15	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.34: Mid-Span Tension Joint for ACSR KINGBIRD Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Mid-Span Tension Joint for ACSR KINGBIRD Conductor	
2.2	Drawing number & Revision number	D-DT 7001	
2.3	SAP No	0165770	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Compression fitting unit suitable for conductor:		
2.9.1	Main conductor (code name)	ACSR KINGBIRD Conductor Dia. 23.87mm	
2.9.2	Tap conductor (code name)	ACSR KINGBIRD Conductor Dia. 23.87mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7001	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Aluminium	
4.1.2.1	Outside Diameter	Required	
4.1.2.2	Inside Diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Steel	
4.1.5.1	Outside Diameter	Required	
4.1.5.2	Inside Diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA-9 & DS-8	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM 32.3mm (DA-9) AND STEEL 12.7mm (DS-8)	
4.1.7	Charpy V-notch test results	8J at -10 °C	
4.1.8	Bolt and nut material	Refer to 240-75883154	
4.1.9	Bolt/Nut tightening torque	<75Nm	
4.1.10	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>771 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>1045 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test, Sample test and Routine tests	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
5.7	Damage and failure load tests	Type test and sample test	
5.8	Tensile test	Type tests only	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Heat cycle test	Type tests only	
5.11	Short Circuit test	Type tests only	
5.12	Corrosion test	Type tests only	
5.13	Drift test	Type test, Sample test and Routine tests	
5.14	Magnetic losses test	Type test, Sample test and Routine tests	
5.15	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.35: Mid-Span Tension Joint for ACSR TERN Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Mid-Span Tension Joint for ACSR TERN Conductor	
2.2	Drawing number & Revision number	D-DT 7001	
2.3	SAP No	0165771	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Compression fitting unit suitable for conductor:		
2.9.1	Main conductor (code name)	ACSR TERN Conductor Dia. 27.00 mm	
2.9.2	Tap conductor (code name)	ACSR TERN Conductor Dia. 27.00 mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7001	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Aluminium	
4.1.2.1	Outside Diameter	Required	
4.1.2.2	Inside Diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.1.5	Material used for core tube	Steel	
4.1.5.1	Outside Diameter	Required	
4.1.5.2	Inside Diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA-11 & DS-8	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM 40.2mm (DA-11) AND STEEL 12.7mm (DS-8)	
4.1.7	Charpy V-notch test results	8J at -10 °C	
4.1.8	Bolt and nut material	Refer to 240-75883154	
4.1.9	Bolt/Nut tightening torque	<75Nm	
4.1.10	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (U _n)	132kV	
4.3.2	Maximum System Voltage (U _m)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>894 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>1231 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test, Sample test and Routine tests	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test and sample test	
5.8	Tensile test	Type tests only	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Heat cycle test	Type tests only	
5.11	Short Circuit test	Type tests only	
5.12	Corrosion test	Type tests only	
5.13	Drift test	Type test, Sample test and Routine tests	
5.14	Magnetic losses test	Type test, Sample test and Routine tests	
5.15	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.36: Mid-Span Tension Joint for ACSR ZEBRA Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Mid-Span Tension Joint for ACSR ZEBRA Conductor	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	0657185	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Compression fitting unit suitable for conductor:		
2.9.1	Main conductor (code name)	ACSR ZEBRA Conductor Dia. 28.56mm	
2.9.2	Tap conductor (code name)	ACSR ZEBRA Conductor Dia. 28.56mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	XXXXX	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Aluminium	
4.1.2.1	Outside Diameter	Required	
4.1.2.2	Inside Diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Steel	
4.1.5.1	Outside Diameter	Required	
4.1.5.2	Inside Diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA-11 & DS-10	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM 40.2mm (DA-11) AND STEEL 16.1mm (DS-10)	
4.1.7	Charpy V-notch test results	8J at -10 °C	
4.1.8	Bolt and nut material	Refer to 240-75883154	
4.1.9	Bolt/Nut tightening torque	<75Nm	
4.1.11	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>938 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>1285 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test, Sample test and Routine tests	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test and sample test	
5.8	Tensile test	Type tests only	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Heat cycle test	Type tests only	
5.11	Short Circuit test	Type tests only	
5.12	Corrosion test	Type tests only	
5.13	Drift test	Type test, Sample test and Routine tests	
5.14	Magnetic losses test	Type test, Sample test and Routine tests	
5.15	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.37: Mid-Span Tension Joint for ACSR BERSFORT Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Mid-Span Tension Joint for ACSR BERSFORT Conductor	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	0656744	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Compression fitting unit suitable for conductor:		

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
2.9.1	Main conductor (code name)	ACSR BERSFORT Conductor Dia. 35.56mm	
2.9.2	Tap conductor (code name)	ACSR BERSFORT Conductor Dia. 35.56mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	XXXXX	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Aluminium	
4.1.2.1	Outside Diameter	Required	
4.1.2.2	Inside Diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Steel	
4.1.5.1	Outside Diameter	Required	
4.1.5.2	Inside Diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
	ALCAN Die "index" identification number	DA-13 & DS-10	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM 49.7mm (DA-13) AND STEEL 16.1mm (DS-10)	
4.1.7	Charpy V-notch test results	8J at -10 °C	
4.1.8	Bolt and nut material	Refer to 240-75883154	
4.1.9	Bolt/Nut tightening torque	<75Nm	
4.1.10	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>1304 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>1814 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test, Sample test and Routine tests	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test and sample test	
5.8	Tensile test	Type tests only	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Heat cycle test	Type tests only	
5.11	Short Circuit test	Type tests only	
5.12	Corrosion test	Type tests only	
5.13	Drift test	Type test, Sample test and Routine tests	
5.14	Magnetic losses test	Type test, Sample test and Routine tests	
5.15	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.38: Mid-Span Tension Joint for AAAC Oak

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Mid-Span Tension Joint for AAAC Oak	
2.2	Drawing number & Revision number	xxxxxx	
2.3	SAP No	xxxxxx	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Compression fitting unit suitable for conductor:		
2.9.1	Main conductor (code name)	AAAC Oak Dia. 13.95mm	
2.9.2	Tap conductor (code name)	AAAC Oak Dia. 13.95mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	xxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	ALUMINIUM	
4.1.2.1	Outside Diameter	Required	
4.1.2.2	Inside Diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA-7	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM 25.4mm (DA-7)	
4.1.7	Charpy V-notch test results	8J at -10 °C	
4.1.8	Bolt and nut material	Refer to 240-75883154	
4.1.9	Bolt/Nut tightening torque	<75Nm	
4.1.10	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e. per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>391 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>530 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test, Sample test and Routine tests	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test and sample test	
5.8	Tensile test	Type tests only	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Heat cycle test	Type tests only	
5.11	Short Circuit test	Type tests only	
5.12	Corrosion test	Type tests only	
5.13	Drift test	Type test, Sample test and Routine tests	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
5.14	Magnetic losses test	Type test, Sample test and Routine tests	
5.15	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.39: Mid-Span Tension Joint for Steel wire 3/4

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Mid-Span Tension Joint for Steel wire 3/4	
2.2	Drawing number & Revision number	D-DT 7001	
2.3	SAP No	0247337	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Compression fitting unit suitable for conductor:		
2.9.1	Main conductor (code name)	Steel Wire 3/4 Dia. 8.7mm	
2.9.2	Tap conductor (code name)	Steel Wire 3/4 Dia. 8.7mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7001	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Steel	
4.1.2.1	Outside Diameter	Required	
4.1.2.2	Inside Diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	(DS-9)	
4.1.7	DIE ACROSS FLATS (A/F):	STEEL 15.2mm (DS-9)	
4.1.7	Charpy V-notch test results	8J at -10 °C	
4.1.8	Bolt and nut material	Refer to 240-75883154	
4.1.9	Bolt/Nut tightening torque	<75Nm	
4.1.10	Maximum Tension	120kN	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test, Sample test and Routine tests	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test and sample test	
5.8	Tensile test	Type tests only	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Heat cycle test	Type tests only	
5.11	Short Circuit test	Type tests only	
5.12	Corrosion test	Type tests only	
5.13	Drift test	Type test, Sample test and Routine tests	
5.14	Magnetic losses test	Type test, Sample test and Routine tests	
5.15	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.40: Mid-Span Tension Joint for Steel wire 3/4

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Mid-Span Tension Joint for Steel wire 3/4	
2.2	Drawing number & Revision number	D-DT 7001	
2.3	SAP No	0247337	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
2.8	Catalogue reference number	xxxxxxx	
2.9	Compression fitting unit suitable for conductor:		
2.9.1	Main conductor (code name)	Steel Wire 3/4 Dia. 8.7mm	
2.9.2	Tap conductor (code name)	Steel Wire 3/4 Dia. 8.7mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7001	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Steel	
4.1.2.1	Outside Diameter	Required	
4.1.2.2	Inside Diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	(DS-9)	
4.1.7	DIE ACROSS FLATS (A/F):	STEEL 15.2mm (DS-9)	
4.1.7	Charpy V-notch test results	8J at -10 °C	
4.1.8	Bolt and nut material	Refer to 240-75883154	
4.1.9	Bolt/Nut tightening torque	<75Nm	
4.1.10	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test, Sample test and Routine tests	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test and sample test	
5.8	Tensile test	Type tests only	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Heat cycle test	Type tests only	
5.11	Short Circuit test	Type tests only	
5.12	Corrosion test	Type tests only	
5.13	Drift test	Type test, Sample test and Routine tests	
5.14	Magnetic losses test	Type test, Sample test and Routine tests	
5.15	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.41: Mid-Span Tension Joint for Steel wire 7/3.35

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Mid-Span Tension Joint for Steel wire 7/3.35	
2.2	Drawing number & Revision number	D-DT 7001	
2.3	SAP No	0165845	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Compression fitting unit suitable for conductor:		
2.9.1	Main conductor (code name)	Steel Wire 7/3.35 Dia. 10.23mm	
2.9.2	Tap conductor (code name)	Steel Wire 7/3.35 Dia. 10.23mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7001	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Steel	
4.1.2.1	Outside Diameter	Required	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.1.2.2	Inside Diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.6	Fitting to be compressed by:		
	ALCAN Die "index" identification number	(DS-10)	
4.1.7	DIE ACROSS FLATS (A/F):	STEEL 16.1mm (DS-10)	
4.1.7	Charpy V-notch test results	8J at -10 °C	
4.1.8	Bolt and nut material	Refer to 240-75883154	
4.1.9	Bolt/Nut tightening torque	<75Nm	
4.1.10	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test, Sample test and Routine tests	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test and sample test	
5.8	Tensile test	Type tests only	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Heat cycle test	Type tests only	
5.11	Short Circuit test	Type tests only	
5.12	Corrosion test	Type tests only	
5.13	Drift test	Type test, Sample test and Routine tests	
5.14	Magnetic losses test	Type test, Sample test and Routine tests	
5.15	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.42: Mid-Span Tension Joint for Steel wire 19/2.65

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Mid-Span Tension Joint for Steel wire 19/2.65	
2.2	Drawing number & Revision number	D-DT 7001	
2.3	SAP No	0165846	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Compression Tension Joint suitable for conductor:	Steel Wire 19/2.65 Dia. 13.55mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7001	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Steel	
4.1.2.1	Outside Diameter	Required	
4.1.2.2	Inside Diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	(DS-12)	
4.1.7	DIE ACROSS FLATS (A/F):	STEEL 20.2mm (DS-12)	
4.1.7	Charpy V-notch test results	8J at -10 °C	
4.1.8	Bolt and nut material	Refer to 240-75883154	
4.1.9	Bolt/Nut tightening torque	<75Nm	
4.1.10	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test, Sample test and Routine tests	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test and sample test	
5.8	Tensile test	Type tests only	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Heat cycle test	Type tests only	
5.11	Short Circuit test	Type tests only	
5.12	Corrosion test	Type tests only	
5.13	Drift test	Type test, Sample test and Routine tests	
5.14	Magnetic losses test	Type test, Sample test and Routine tests	
5.15	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.43: Sleeve Repair for ACSR Mink Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Sleeve Repair for ACSR Mink Conductor	
2.2	Drawing number & Revision number	D-DT 7020	
2.3	SAP No	0175916	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Sleeve Repair Compression fitting unit suitable for conductor:	ACSR MINK Conductor Dia. 10.98mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7020	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Aluminium	
4.1.2.1	Outside Diameter	Required	
4.1.2.2	Inside Diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Aluminium	
4.1.5.1	Outside Diameter	Required	
4.1.5.2	Inside Diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA-6	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM 22.0mm (DA-6)	
4.1.8	Charpy V-notch test results	8J at -10 °C	
4.1.9	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>270 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>361 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test	
5.6	Tensile test	Type Test and Sample Test	
5.7	Short Circuit test	Type tests only	
5.8	Corrosion test	Type tests only	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
5.9	Drift test	Type test, Sample test and Routine tests	
5.10	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.44: Sleeve Repair for ACSR HARE Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Sleeve Repair for ACSR HARE Conductor	
2.2	Drawing number & Revision number	D-DT 7020	
2.3	SAP No	0168240	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Sleeve Repair Compression fitting unit suitable for conductor:	ACSR HARE Conductor Dia. 14.16mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7020	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Aluminium	
4.1.2.1	Outside Diameter	Required	
4.1.2.2	Inside Diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Aluminium	
4.1.5.1	Outside Diameter	Required	
4.1.5.2	Inside Diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA-7	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM 25.4mm (DA-7)	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.1.8	Charpy V-notch test results	8J at -10 °C	
4.1.9	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e. per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>376 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>496 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test	
5.6	Tensile test	Type Test and Sample Test	
5.7	Short Circuit test	Type tests only	
5.8	Corrosion test	Type tests only	
5.9	Drift test	Type test, Sample test and Routine tests	
5.10	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.45: Sleeve Repair for AAAC Ash Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Sleeve Repair for AAAC Ash Conductor	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	xxxxxxx	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Sleeve Repair Compression fitting unit suitable for conductor:	AAAC Ash Conductor Dia 17.40mm	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Aluminium	
4.1.2.1	Outside diameter	Required	
4.1.2.2	Inside diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Aluminium	
4.1.5.1	Outside diameter	Required	
4.1.5.2	Inside diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA-7	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM (DA-7)	
4.1.8	Charpy V-notch test results	8J at -10 °C	
4.1.9	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>523Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>700 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test	
5.6	Tensile test	Type Test and Sample Test	
5.7	Short Circuit test	Type tests only	
5.8	Corrosion test	Type tests only	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
5.9	Drift test	Type test, Sample test and Routine tests	
5.10	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.46: Sleeve Repair for AAAC Oak Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Sleeve Repair for AAAC Oak Conductor	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	xxxxxxx	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Sleeve Repair Compression fitting unit suitable for conductor:	AAAC Oak Conductor Dia. 13.95mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Aluminium	
4.1.2.1	Outside Diameter	Required	
4.1.2.2	Inside Diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Aluminium	
4.1.5.1	Outside Diameter	Required	
4.1.5.2	Inside Diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA-7	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM 25.4mm (DA-7)	
4.1.8	Charpy V-notch test results	8J at -10 °C	
4.1.9	Maximum Tension	120kN	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>391 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>530 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test	
5.6	Tensile test	Type Test and Sample Test	
5.7	Short Circuit test	Type tests only	
5.8	Corrosion test	Type tests only	
5.9	Drift test	Type test, Sample test and Routine tests	
5.10	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.47: Sleeve Repair for ACSR Tiger Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Sleeve Repair for ACSR Tiger Conductor	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	XXXXXXX	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Sleeve Repair Compression fitting unit suitable for conductor:	ACSR Tiger Conductor Dia. 17.40mm	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	Xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Aluminium	
4.1.2.1	Outside diameter	Required	
4.1.2.2	Inside diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Aluminium	
4.1.5.1	Outside diameter	Required	
4.1.5.2	Inside diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA-7	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM (DA-7)	
4.1.8	Charpy V-notch test results	8J at -10 °C	
4.1.9	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>444 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>593 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test	
5.6	Tensile test	Type Test and Sample Test	
5.7	Short Circuit test	Type tests only	
5.8	Corrosion test	Type tests only	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
5.9	Drift test	Type test, Sample test and Routine tests	
5.10	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.48: Sleeve Repair for ACSR Rail Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Sleeve Repair for ACSR RAILConductor	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	XXXXXXXX	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Sleeve Repair Compression fitting unit suitable for conductor:	ACSR Rail Conductor Dia 29.59mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Aluminium	
4.1.2.1	Outside diameter	Required	
4.1.2.2	Inside diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Aluminium	
4.1.5.1	Outside diameter	Required	
4.1.5.2	Inside diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA-11	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM 40.2mm (DA-11)	
4.1.8	Charpy V-notch test results	8J at -10 °C	
4.1.9	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>1101 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>1408 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test	
5.6	Tensile test	Type Test and Sample Test	
5.7	Short Circuit test	Type tests only	
5.8	Corrosion test	Type tests only	
5.9	Drift test	Type test, Sample test and Routine tests	
5.10	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.49: Sleeve Repair for ACSR WOLF Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Sleeve Repair for ACSR WOLF Conductor	
2.2	Drawing number & Revision number	D-DT 7020	
2.3	SAP No	0402539	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Sleeve Repair Compression fitting unit suitable for conductor:	ACSR WOLF Conductor Dia. 18.13mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7020	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Aluminium	
4.1.2.1	Outside Diameter	Required	
4.1.2.2	Inside Diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Aluminium	
4.1.5.1	Outside Diameter	Required	
4.1.5.2	Inside Diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA- 8	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM 28.2mm (DA-8)	
4.1.8	Charpy V-notch test results	8J at -10 °C	
4.1.9	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>498 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>671 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test	
5.6	Tensile test	Type Test and Sample Test	
5.7	Short Circuit test	Type tests only	
5.8	Corrosion test	Type tests only	
5.9	Drift test	Type test, Sample test and Routine tests	
5.10	Corona and RIV test	Type test	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
6	Comments and Deviations:		

Table A.50: Sleeve Repair for ACSR CHICADEE Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Sleeve Repair for ACSR CHICADEE Conductor	
2.2	Drawing number & Revision number	D-DT 7020	
2.3	SAP No	0168749	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Sleeve Repair Compression fitting unit suitable for conductor:	ACSR CHICADEE Conductor Dia. 18.87mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7020	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Aluminium	
4.1.2.1	Outside Diameter	Required	
4.1.2.2	Inside Diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Aluminium	
4.1.5.1	Outside Diameter	Required	
4.1.5.2	Inside Diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA-8	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM 28.2mm (DA-8)	
4.1.8	Charpy V-notch test results	8J at -10 °C	
4.1.9	Maximum Tension	120kN	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>559 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>761 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test	
5.6	Tensile test	Type Test and Sample Test	
5.7	Short Circuit test	Type tests only	
5.8	Corrosion test	Type tests only	
5.9	Drift test	Type test, Sample test and Routine tests	
5.10	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.51: Sleeve Repair for ACSR BEAR Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Sleeve Repair for ACSR BEAR Conductor	
2.2	Drawing number & Revision number	D-DT 7020	
2.3	SAP No	0402541	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
2.9	Sleeve Repair Compression fitting unit suitable for conductor:	ACSR BEAR Conductor Dia. 23.45mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7020	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Aluminium	
4.1.2.1	Outside Diameter	Required	
4.1.2.2	Inside Diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Aluminium	
4.1.5.1	Outside Diameter	Required	
4.1.5.2	Inside Diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA-9	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM 32.3mm (DA-9)	
4.1.8	Charpy V-notch test results	8J at -10 °C	
4.1.9	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>706 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>962 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test	
5.6	Tensile test	Type Test and Sample Test	
5.7	Short Circuit test	Type tests only	
5.8	Corrosion test	Type tests only	
5.9	Drift test	Type test, Sample test and Routine tests	
5.10	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.52: Sleeve Repair for ACSR Kingbird Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Sleeve Repair for ACSR Kingbird Conductor	
2.2	Drawing number & Revision number	D-DT 7020	
2.3	SAP No	0168750	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Sleeve Repair Compression fitting unit suitable for conductor:	ACSR Kingbird Conductor Dia. 23.90mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7020	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Aluminium	
4.1.2.1	Outside Diameter	Required	
4.1.2.2	Inside Diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.1.5	Material used for core tube	Aluminium	
4.1.5.1	Outside Diameter	Required	
4.1.5.2	Inside Diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA-9	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM 32.3mm (DA-9)	
4.1.8	Charpy V-notch test results	8J at -10 °C	
4.1.9	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>771 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>1045 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test	
5.6	Tensile test	Type Test and Sample Test	
5.7	Short Circuit test	Type tests only	
5.8	Corrosion test	Type tests only	
5.9	Drift test	Type test, Sample test and Routine tests	
5.10	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.53: Sleeve Repair for ACSR TERN Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Sleeve Repair for ACSR TERN Conductor	
2.2	Drawing number & Revision number	D-DT 7020	
2.3	SAP No	0168751	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Sleeve Repair Compression fitting unit suitable for conductor:	ACSR TERN Conductor Dia. 27.00mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7020	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Aluminium	
4.1.2.1	Outside Diameter	Required	
4.1.2.2	Inside Diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Aluminium	
4.1.5.1	Outside Diameter	Required	
4.1.5.2	Inside Diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA-11	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM 40.2mm (DA-11)	
4.1.8	Charpy V-notch test results	8J at -10 °C	
4.1.9	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>894 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>1231 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test	
5.6	Tensile test	Type Test and Sample Test	
5.7	Short Circuit test	Type tests only	
5.8	Corrosion test	Type tests only	
5.9	Drift test	Type test, Sample test and Routine tests	
5.10	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.54: Sleeve Repair for ACSR ZEBRA Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Sleeve Repair for ACSR ZEBRA Conductor	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	xxxxxxx	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Sleeve Repair Compression fitting unit suitable for conductor:	ACSR ZEBRA Conductor Dia. 28.56mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Aluminium	
4.1.2.1	Outside Diameter	Required	
4.1.2.2	Inside Diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Aluminium	
4.1.5.1	Outside Diameter	Required	
4.1.5.2	Inside Diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA-11	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM 40.2mm (DA-11)	
4.1.8	Charpy V-notch test results	8J at -10 °C	
4.1.9	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e. per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>938 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>1285 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test	
5.6	Tensile test	Type Test and Sample Test	
5.7	Short Circuit test	Type tests only	
5.8	Corrosion test	Type tests only	
5.9	Drift test	Type test, Sample test and Routine tests	
5.10	Corona and RIV test	Type test	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
6	Comments and Deviations:		

Table A.55: Sleeve Repair for ACSR BERSFORT Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Sleeve Repair for ACSR BERSFORT Conductor	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	xxxxxxx	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Sleeve Repair Compression fitting unit suitable for conductor:	ACSR BERSFORT Conductor Dia. 35.56mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Aluminium	
4.1.2.1	Outside Diameter	Required	
4.1.2.2	Inside Diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Aluminium	
4.1.5.1	Outside Diameter	Required	
4.1.5.2	Inside Diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA-13	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM 49.7mm (DA-13)	
4.1.8	Charpy V-notch test results	8J at -10 °C	
4.1.9	Maximum Tension	120kN	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>1304 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>1814 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test	
5.6	Tensile test	Type Test and Sample Test	
5.7	Short Circuit test	Type tests only	
5.8	Corrosion test	Type tests only	
5.9	Drift test	Type test, Sample test and Routine tests	
5.10	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.56: Sleeve Repair for Steel wire 3/4 Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Sleeve Repair for Steel wire 3/4 Conductor	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	xxxxxxx	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Sleeve Repair Compression fitting unit suitable for conductor:	Steel wire 3/4 Conductor Dia. 8.7mm	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Steel	
4.1.2.1	Outside Diameter	Required	
4.1.2.2	Inside Diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Steel	
4.1.5.1	Outside Diameter	Required	
4.1.5.2	Inside Diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DS-9	
4.1.7	DIE ACROSS FLATS (A/F):	STEEL 15.2mm (DS-9)	
4.1.8	Charpy V-notch test results	8J at -10 °C	
4.1.9	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test	
5.6	Tensile test	Type Test and Sample Test	
5.7	Short Circuit test	Type tests only	
5.8	Corrosion test	Type tests only	
5.9	Drift test	Type test, Sample test and Routine tests	
5.10	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.57: Sleeve Repair for Steel wire 7/3.35 Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Sleeve Repair for Steel wire 7/3.35 Conductor	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	xxxxxxx	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Sleeve Repair Compression fitting unit suitable for conductor:	Steel wire 7/3.35 Conductor Dia. 10.23mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Steel	
4.1.2.1	Outside Diameter	Required	
4.1.2.2	Inside Diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Steel	
4.1.5.1	Outside Diameter	Required	
4.1.5.2	Inside Diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DS-10	
4.1.7	DIE ACROSS FLATS (A/F):	STEEL 16.1mm (DS-10)	
4.1.8	Charpy V-notch test results	8J at -10 °C	
4.1.9	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test	
5.6	Tensile test	Type Test and Sample Test	
5.7	Short Circuit test	Type tests only	
5.8	Corrosion test	Type tests only	
5.9	Drift test	Type test, Sample test and Routine tests	
5.10	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.58: Sleeve Repair for Steel wire 19/2.65 Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Sleeve Repair for Steel wire 19/2.65 Conductor	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	xxxxxxx	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Sleeve Repair Compression fitting unit suitable for conductor:	Steel wire 19/2.65 Conductor Dia. 13.55mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Steel	
4.1.2.1	Outside Diameter	Required	
4.1.2.2	Inside Diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Steel	
4.1.5.1	Outside Diameter	Required	
4.1.5.2	Inside Diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DS-12	
4.1.7	DIE ACROSS FLATS (A/F):	STEEL 20.2mm (DS-12)	
4.1.8	Charpy V-notch test results	8J at -10 °C	
4.1.9	Maximum Tension	120kN	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e. per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	One second Short-Circuit Current Rating Withstand	31.5kA	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test	
5.6	Tensile test	Type Test and Sample Test	
5.7	Short Circuit test	Type tests only	
5.8	Corrosion test	Type tests only	
5.9	Drift test	Type test, Sample test and Routine tests	
5.10	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.59: Non-Tension Joint for ACSR Mink Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Non-Tension Joint for ACSR Mink Conductor	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	xxxxxxx	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Non-Tension Joint suitable for conductor:	ACSR MINK Conductor Dia 10.98mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Aluminium	
4.1.2.1	Outside diameter	Required	
4.1.2.2	Inside diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Aluminium	
4.1.5.1	Outside diameter	Required	
4.1.5.2	Inside diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA-6	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM 22.0mm (DA-6)	
4.1.8	Charpy V-notch test results	8J at -10 °C	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>270 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>361 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test	
5.6	Damage and failure load tests	Type Test and Sample Test	
5.7	Short Circuit test	Type tests only	
5.8	Corrosion test	Type tests only	
5.9	Drift test	Type test, Sample test and Routine tests	
5.10	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.60: Non-Tension Joint for ACSR HARE Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Non-Tension Joint for ACSR HARE Conductor	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	xxxxxxx	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Non-Tension Joint suitable for conductor:	ACSR HARE Conductor Dia 14.16mm	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Aluminium	
4.1.2.1	Outside diameter	Required	
4.1.2.2	Inside diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Aluminium	
4.1.5.1	Outside diameter	Required	
4.1.5.2	Inside diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA-7	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM 25.4mm (DA-7)	
4.1.8	Charpy V-notch test results	8J at -10 °C	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>376 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>496 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test	
5.6	Damage and failure load tests	Type Test and Sample Test	
5.7	Short Circuit test	Type tests only	
5.8	Corrosion test	Type tests only	
5.9	Drift test	Type test, Sample test and Routine tests	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
5.10	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.61: Armor Grip Suspension (AGS) Unit for ACSR MINK Conductor and AAAC PINE Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Non-Tension Joint for AAAC Ash Conductor	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	xxxxxxx	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Non Tension Joint suitable for conductor:	AAAC Ash Conductor Dia 17.40mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Aluminium	
4.1.2.1	Outside diameter	Required	
4.1.2.2	Inside diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Aluminium	
4.1.5.1	Outside diameter	Required	
4.1.5.2	Inside diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA-7	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM (DA-7)	
4.1.8	Charpy V-notch test results	8J at -10 °C	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>523Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>700 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test	
5.6	Damage and failure load tests	Type Test and Sample Test	
5.7	Short Circuit test	Type tests only	
5.8	Corrosion test	Type tests only	
5.9	Drift test	Type test, Sample test and Routine tests	
5.10	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.62: Non-Tension Joint for AAAC Oak Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Non-Tension Joint for AAAC Oak Conductor	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	xxxxxxx	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Non-Tension Joint suitable for conductor:	AAAC Oak Conductor Dia 13.95mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Aluminium	
4.1.2.1	Outside diameter	Required	
4.1.2.2	Inside diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Aluminium	
4.1.5.1	Outside diameter	Required	
4.1.5.2	Inside diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA-7	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM 25.4mm (DA-7)	
4.1.8	Charpy V-notch test results	8J at -10 °C	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>391 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>530 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test	
5.6	Damage and failure load tests	Type Test and Sample Test	
5.7	Short Circuit test	Type tests only	
5.8	Corrosion test	Type tests only	
5.9	Drift test	Type test, Sample test and Routine tests	
5.10	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.63: Non-Tension Joint for ACSR WOLF Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Non-Tension Joint for ACSR WOLF Conductor	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	xxxxxxx	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Non -Tension Joint suitable for conductor:	ACSR WOLF Conductor Dia 18.13mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Aluminium	
4.1.2.1	Outside diameter	Required	
4.1.2.2	Inside diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Aluminium	
4.1.5.1	Outside diameter	Required	
4.1.5.2	Inside diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA- 8	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM 28.2mm (DA-8)	
4.1.8	Charpy V-notch test results	8J at -10 °C	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>498 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>671 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test	
5.6	Damage and failure load tests	Type Test and Sample Test	
5.7	Short Circuit test	Type tests only	
5.8	Corrosion test	Type tests only	
5.9	Drift test	Type test, Sample test and Routine tests	
5.10	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.64: Non- Tension Joint for ACSR CHICADEE Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Non- Tension Joint for ACSR CHICADEE Conductor	
2.2	Drawing number & Revision number	D-DT 7020	
2.3	SAP No	0168749	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Non-Tension Joint suitable for conductor:	ACSR CHICADEE Conductor Dia 18.87mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7020	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Aluminium	
4.1.2.1	Outside diameter	Required	
4.1.2.2	Inside diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Aluminium	
4.1.5.1	Outside diameter	Required	
4.1.5.2	Inside diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA-8	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM 28.2mm (DA-8)	
4.1.8	Charpy V-notch test results	8J at -10 °C	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>559 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>761 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test	
5.6	Damage and failure load tests	Type Test and Sample Test	
5.7	Short Circuit test	Type tests only	
5.8	Corrosion test	Type tests only	
5.9	Drift test	Type test, Sample test and Routine tests	
5.10	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.65: Non-Tension Joint for ACSR BEAR Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Non-Tension Joint for ACSR BEAR Conductor	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	xxxxxxx	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Non-Tension Joint suitable for conductor:	ACSR BEAR Conductor Dia 23.45mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Aluminium	
4.1.2.1	Outside diameter	Required	
4.1.2.2	Inside diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Aluminium	
4.1.5.1	Outside diameter	Required	
4.1.5.2	Inside diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA-9	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM 32.3mm (DA-9)	
4.1.8	Charpy V-notch test results	8J at -10 °C	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>706 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>962 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
5.6	Damage and failure load tests	Type Test and Sample Test	
5.7	Short Circuit test	Type tests only	
5.8	Corrosion test	Type tests only	
5.9	Drift test	Type test, Sample test and Routine tests	
5.10	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.66: Non-Tension Joint for ACSR Kingbird Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Non-Tension Joint for ACSR Kingbird Conductor	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	xxxxxxx	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Non-Tension Joint suitable for conductor:	ACSR Kingbird Conductor Dia 23.90mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Aluminium	
4.1.2.1	Outside diameter	Required	
4.1.2.2	Inside diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Aluminium	
4.1.5.1	Outside diameter	Required	
4.1.5.2	Inside diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA-9	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM 32.3mm (DA-9)	
4.1.8	Charpy V-notch test results	8J at -10 °C	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>771 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>1045 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test	
5.6	Damage and failure load tests	Type Test and Sample Test	
5.7	Short Circuit test	Type tests only	
5.8	Corrosion test	Type tests only	
5.9	Drift test	Type test, Sample test and Routine tests	
5.10	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.67: Non-Tension Joint for ACSR TERN Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Non-Tension Joint for ACSR TERN Conductor	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	xxxxxxx	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Non-Tension Joint suitable for conductor:	ACSR TERN Conductor Dia 27.00mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Aluminium	
4.1.2.1	Outside diameter	Required	
4.1.2.2	Inside diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Aluminium	
4.1.5.1	Outside diameter	Required	
4.1.5.2	Inside diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA-11	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM 40.2mm (DA-11)	
4.1.8	Charpy V-notch test results	8J at -10 °C	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>894 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>1231 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test	
5.6	Damage and failure load tests	Type Test and Sample Test	
5.7	Short Circuit test	Type tests only	
5.8	Corrosion test	Type tests only	
5.9	Drift test	Type test, Sample test and Routine tests	
5.10	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.68: Non-Tension Joint for ACSR Tiger Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Non-Tension Joint for ACSR Tiger Conductor	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	XXXXXXX	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Non-Tension Joint suitable for conductor:	ACSR Tiger Conductor Dia. 17.40mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Aluminium	
4.1.2.1	Outside diameter	Required	
4.1.2.2	Inside diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Aluminium	
4.1.5.1	Outside diameter	Required	
4.1.5.2	Inside diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA-7	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM (DA-7)	
4.1.8	Charpy V-notch test results	8J at -10 °C	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>444 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>593 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test	
5.6	Damage and failure load tests	Type Test and Sample Test	
5.7	Short Circuit test	Type tests only	
5.8	Corrosion test	Type tests only	
5.9	Drift test	Type test, Sample test and Routine tests	
5.10	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.69: Non-Tension Joint for ACSR RAIL Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Non-Tension Joint for ACSR RAIL Conductor	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	XXXXXXX	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Non-Tension Joint suitable for conductor:	ACSR Rail Conductor Dia. 29.59mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Aluminium	
4.1.2.1	Outside diameter	Required	
4.1.2.2	Inside diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Aluminium	
4.1.5.1	Outside diameter	Required	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.1.5.2	Inside diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA-11	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM 40.2mm (DA-11)	
4.1.8	Charpy V-notch test results	8J at -10 °C	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>1101 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>1408 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test	
5.6	Damage and failure load tests	Type Test and Sample Test	
5.7	Short Circuit test	Type tests only	
5.8	Corrosion test	Type tests only	
5.9	Drift test	Type test, Sample test and Routine tests	
5.10	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.70: Non-Tension Joint for ACSR ZEBRA Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Non-Tension Joint for ACSR ZEBRA Conductor	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	xxxxxxx	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Non-Tension Joint suitable for conductor:	ACSR ZEBRA Conductor Dia 28.56mm	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Aluminium	
4.1.2.1	Outside diameter	Required	
4.1.2.2	Inside diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Aluminium	
4.1.5.1	Outside diameter	Required	
4.1.5.2	Inside diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA-11	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM 40.2mm (DA-11)	
4.1.8	Charpy V-notch test results	8J at -10 °C	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>938 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>1285 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test	
5.6	Damage and failure load tests	Type Test and Sample Test	
5.7	Short Circuit test	Type tests only	
5.8	Corrosion test	Type tests only	
5.9	Drift test	Type test, Sample test and Routine tests	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
5.10	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.71: Non-Tension Joint for ACSR BERSFORT Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Non-Tension Joint for ACSR BERSFORT Conductor	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	xxxxxxx	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Non-Tension Joint suitable for conductor:	ACSR BERSFORT Conductor Dia 35.56mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Aluminium	
4.1.2.1	Outside diameter	Required	
4.1.2.2	Inside diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Aluminium	
4.1.5.1	Outside diameter	Required	
4.1.5.2	Inside diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DA-13	
4.1.7	DIE ACROSS FLATS (A/F):	ALUMINIUM 49.7mm (DA-13)	
4.1.8	Charpy V-notch test results	8J at -10 °C	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	Current carrying capacity under normal operating conditions	>1304 Amps	
4.3.6	Current carrying capacity under Emergency operating conditions	>1814 Amps	
4.3.7	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test	
5.6	Damage and failure load tests	Type Test and Sample Test	
5.7	Short Circuit test	Type tests only	
5.8	Corrosion test	Type tests only	
5.9	Drift test	Type test, Sample test and Routine tests	
5.10	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.72: Non-Tension Joint for Steel wire 3/4 Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Non-Tension Joint for Steel wire 3/4 Conductor	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	xxxxxxx	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Non-Tension Joint suitable for conductor:	Steel wire 3/4 Conductor Dia. 8.7mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	Xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Steel	
4.1.2.1	Outside diameter	Required	
4.1.2.2	Inside diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Steel	
4.1.5.1	Outside diameter	Required	
4.1.5.2	Inside diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DS-9	
4.1.7	DIE ACROSS FLATS (A/F):	STEEL 15.2mm (DS-9)	
4.1.8	Charpy V-notch test results	8J at -10 °C	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test	
5.6	Damage and failure load tests	Type Test and Sample Test	
5.7	Short Circuit test	Type tests only	
5.8	Corrosion test	Type tests only	
5.9	Drift test	Type test, Sample test and Routine tests	
5.10	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.73: Non-Tension Joint for Steel wire 7/3.35 Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Non-Tension Joint for Steel wire 7/3.35 Conductor	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	xxxxxxx	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Non-Tension Joint suitable for conductor:	Steel wire 7/3.35 Conductor Dia. 10.23mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Steel	
4.1.2.1	Outside diameter	Required	
4.1.2.2	Inside diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Steel	
4.1.5.1	Outside diameter	Required	
4.1.5.2	Inside diameter	Required	
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DS-10	
4.1.7	DIE ACROSS FLATS (A/F):	STEEL 16.1mm (DS-10)	
4.1.8	Charpy V-notch test results	8J at -10 °C	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test	
5.6	Damage and failure load tests	Type Test and Sample Test	
5.7	Short Circuit test	Type tests only	
5.8	Corrosion test	Type tests only	
5.9	Drift test	Type test, Sample test and Routine tests	
5.10	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.74: Non-Tension Joint for Steel wire 19/2.65 Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Compression fitting	Non-Tension Joint for Steel wire 19/2.65 Conductor	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	xxxxxxx	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Non-Tension Joint suitable for conductor:	Steel wire 19/2.65 Conductor Dia. 13.55mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Extruded or seam free	YES	
4.1.2	Material for outer tube	Steel	
4.1.2.1	Outside diameter	Required	
4.1.2.2	Inside diameter	Required	
4.1.2.3	Wall thickness and tolerance	Required	
4.1.2.4	Overall length	Required	
4.1.3	Number of crimps per connection	Required	
4.1.4	Do crimps overlap?	Successive crimps shall overlap adjacent crimps by one third.	
4.1.5	Material used for core tube	Steel	
4.1.5.1	Outside diameter	Required	
4.1.5.2	Inside diameter	Required	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.1.5.3	Wall thickness and tolerance	Required	
4.1.5.4	Overall length	Required	
4.1.6	Fitting to be compressed by:		
4.1.6.1	ALCAN Die "index" identification number	DS-12	
4.1.7	DIE ACROSS FLATS (A/F):	STEEL 20.2mm (DS-12)	
4.1.8	Charpy V-notch test results	8J at -10 °C	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e. per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test	
5.6	Damage and failure load tests	Type Test and Sample Test	
5.7	Short Circuit test	Type tests only	
5.8	Corrosion test	Type tests only	
5.9	Drift test	Type test, Sample test and Routine tests	
5.10	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.75: Armor Grip Suspension (AGS) Unit for ACSR MINK Conductor and AAAC PINE Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	Armor Grip Suspension (AGS) Unit for ACSR MINK Conductor and AAAC PINE Conductor	
2.2	Drawing number & Revision number	D-DT 7033	
2.3	SAP No	0168965	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Armor Grip Suspension Clamp unit suitable for conductor:	ACSR MINK Conductor Dia. 10.98mm and AAAC PINE Conductor Dia. 10.83mm	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7033	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	Clevis dimension	TO SANS 60471 DESIGNATION 16L	
4.1.1.2	AGS HOUSING WIDTH	53mm	
4.1.1.3	ROD LENGTH	1040mm	
4.1.1.4	ROD DIA.:	4.06mm	
4.1.2	Material Grade:	M16 HDG BOLT: GRADE 8.8; M16 HDG WASHER: MILD STEEL; M16 HDG NUT: GRADE 181; SPLIT PIN: 316 STAINLESS STEEL; AGS STRAP: ALUMINIUM; NEOPRENE INSERT: NEOPRENE; AGS HOUSING: ALUMINIUM; AGS RODS: ALUMINIUM;	
4.1.3	Supplied with:	8 RODS PER SET; COLOUR CODE RED; and 1x Hump Backs Split pin	
4.1.4	Charpy V-notch test results	8J at -10 °C	
4.1.5	Bolt/Nut tightening torque	<75Nm	
4.1.6	Vertical Ultimate Strength	70kN	
4.1.7	Supplied with Preformed Armor Rods for suitable conductor	YES	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating:		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test, Sample test and Routine tests	
5.8	Slip test	Type tests and Sample test	
5.9	Clamp bolt tightening test	Type test and Sample test	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
5.10	Short Circuit test	Type tests only	
5.11	Corrosion test	Type tests only	
5.12	Drift test	Type test, Sample test and Routine tests	
5.13	Magnetic losses test	Type test	
5.14	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.76: Armor Grip Suspension (AGS) Unit for ACSR HARE Conductor and AAAC Oak Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	Armor Grip Suspension (AGS) Unit for ACSR HARE Conductor and AAAC Oak Conductor	
2.2	Drawing number & Revision number	D-DT 7033	
2.3	SAP No	0402633	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Armor Grip Suspension Clamp unit suitable for conductor:	ACSR Hare Conductor Dia. 14.16mm and AAAC Oak Conductor Dia. 13.95mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7033	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	Clevis dimension	TO SANS 60471 DESIGNATION 16L	
4.1.1.2	AGS HOUSING WIDTH	67mm	
4.1.1.3	ROD LENGTH	1115mm	
4.1.1.4	ROD DIA.:	4.62mm	
4.1.2	Material Grade:	M16 HDG BOLT: GRADE 8.8; M16 HDG WASHER: MILD STEEL; M16 HDG NUT: GRADE 181; SPLIT PIN: 316 STAINLESS STEELS; AGS STRAP: ALUMINIUM; NEOPRENE INSERT: NEOPRENE; AGS HOUSING: ALUMINIUM; AGS RODS: ALUMINIUM;	
4.1.3	Supplied with:	11 RODS PER SET * COLOUR CODE BROWN; and 1x Hump Backs Split pin	
4.1.4	Charpy V-notch test results	8J at -10 °C	
4.1.5	Bolt/Nut tightening torque	<75Nm	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.1.6	Vertical Ultimate Strength	70kN	
4.1.7	Supplied with Preformed Armor Rods for suitable conductor	YES	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating:		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test, Sample test and Routine tests	
5.8	Slip test	Type tests and Sample test	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Corrosion test	Type tests only	
5.12	Drift test	Type test, Sample test and Routine tests	
5.13	Magnetic losses test	Type test	
5.14	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.77: Armor Grip Suspension (AGS) Unit for ACSR WOLF Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	Armor Grip Suspension (AGS) Unit for ACSR WOLF Conductor	
2.2	Drawing number & Revision number	D-DT 7033	
2.3	SAP No	0402019	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
2.8	Catalogue reference number	xxxxxxx	
2.9	Armor Grip Suspension Clamp unit suitable for conductor:	ACSR WOLF Conductor Dia. 18.13mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7033	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	Clevis dimension	TO SANS 60471 DESIGNATION 16L	
4.1.1.2	AGS HOUSING WIDTH	71mm	
4.1.1.3	ROD LENGTH	1395mm	
4.1.1.4	ROD DIA.:	5.18mm	
4.1.2	Material Grade:	M16 HDG BOLT: GRADE 8.8; M16 HDG WASHER: MILD STEEL; M16 HDG NUT: GRADE 181; SPLIT PIN: 316 STAINLESS STEEL; AGS STRAP: ALUMINIUM; NEOPRENE INSERT: NEOPRENE; AGS HOUSING: ALUMINIUM; AGS RODS: ALUMINIUM;	
4.1.3	Supplied with:	12 RODS PER SET * COLOUR CODE WHITE; and 1x Hump Backs Split pin	
4.1.4	Charpy V-notch test results	8J at -10 °C	
4.1.5	Bolt/Nut tightening torque	<75Nm	
4.1.6	Vertical Ultimate Strength	70kN	
4.1.7	Supplied with Preformed Armor Rods for suitable conductor	YES	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating:		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test, Sample test and Routine tests	
5.8	Slip test	Type tests and Sample test	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Corrosion test	Type tests only	
5.12	Drift test	Type test, Sample test and Routine tests	
5.13	Magnetic losses test	Type test	
5.14	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.78: Armor Grip Suspension (AGS) Unit for ACSR CHICADEE Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	Armor Grip Suspension (AGS) Unit for ACSR CHICADEE Conductor	
2.2	Drawing number & Revision number	D-DT 7033	
2.3	SAP No	0168754	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Armor Grip Suspension Clamp unit suitable for conductor:	ACSR CHICADEE Conductor Dia. 18.87mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7033	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	Clevis dimension	TO SANS 60471 DESIGNATION 16L	
4.1.1.2	AGS HOUSING WIDTH	71mm	
4.1.1.3	ROD LENGTH	1425mm	
4.1.1.4	ROD DIA.:	5.18mm	
4.1.2	Material Grade:	M16 HDG BOLT: GRADE 8.8; M16 HDG WASHER: MILD STEEL; M16 HDG NUT: GRADE 181; SPLIT PIN: 316 STAINLESS STEEL; AGS STRAP: ALUMINIUM; NEOPRENE INSERT: NEOPRENE; AGS HOUSING: ALUMINIUM; AGS RODS: ALUMINIUM;	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.1.3	Supplied with:	12 RODS PER SET * COLOUR CODE RED; and 1x Hump Backs Split pin	
4.1.4	Charpy V-notch test results	8J at -10 °C	
4.1.5	Bolt/Nut tightening torque	<75Nm	
4.1.6	Vertical Ultimate Strength	70kN	
4.1.7	Supplied with Preformed Armor Rods for suitable conductor	YES	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating:		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test, Sample test and Routine tests	
5.8	Slip test	Type tests and Sample test	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Corrosion test	Type tests only	
5.12	Drift test	Type test, Sample test and Routine tests	
5.13	Magnetic losses test	Type test	
5.14	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.79: Armor Grip Suspension (AGS) Unit for ACSR BEAR Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	Armor Grip Suspension (AGS) Unit for ACSR BEAR Conductor	
2.2	Drawing number & Revision number	D-DT 7033	
2.3	SAP No	0402549	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Armor Grip Suspension Clamp unit suitable for conductor:	ACSR BEAR Conductor Dia. 23.45mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7033	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	Clevis dimension	TO SANS 60471 DESIGNATION 16L	
4.1.1.2	AGS HOUSING WIDTH	94mm	
4.1.1.3	ROD LENGTH	1680mm	
4.1.1.4	ROD DIA.:	6.35mm	
4.1.2	Material Grade:	M16 HDG BOLT: GRADE 8.8; M16 HDG WASHER: MILD STEEL; M16 HDG NUT: GRADE 181; SPLIT PIN: 316 STAINLESS STEEL; AGS STRAP: ALUMINIUM; NEOPRENE INSERT: NEOPRENE; AGS HOUSING: ALUMINIUM; AGS RODS: ALUMINIUM;	
4.1.3	Supplied with:	12 RODS PER SET * COLOUR CODE ORANGE; and 1x Hump Backs Split pin	
4.1.4	Charpy V-notch test results	8J at -10 °C	
4.1.5	Bolt/Nut tightening torque	<75Nm	
4.1.6	Vertical Ultimate Strength	90kN	
4.1.7	Supplied with Preformed Armor Rods for suitable conductor	YES	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating:		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e. per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test, Sample test and Routine tests	
5.8	Slip test	Type tests and Sample test	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Corrosion test	Type tests only	
5.12	Drift test	Type test, Sample test and Routine tests	
5.13	Magnetic losses test	Type test	
5.14	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.80: Armor Grip Suspension (AGS) Unit for ACSR KINGBIRD Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	Armor Grip Suspension (AGS) Unit for ACSR KINGBIRD Conductor	
2.2	Drawing number & Revision number	D-DT 7033	
2.3	SAP No	0168756	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Armor Grip Suspension Clamp unit suitable for conductor:	ACSR KINGBIRD Conductor Dia. 23.90mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7033	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	Clevis dimension	TO SANS 60471 DESIGNATION 16L	
4.1.1.2	AGS HOUSING WIDTH	94mm	
4.1.1.3	ROD LENGTH	1702mm	
4.1.1.4	ROD DIA.:	6.35mm	
4.1.2	Material Grade:	M16 HDG BOLT: GRADE 8.8; M16 HDG WASHER: MILD STEEL; M16 HDG NUT: GRADE 181; SPLIT PIN: 316 STAINLESS STEEL; AGS STRAP: ALUMINIUM; NEOPRENE INSERT: NEOPRENE; AGS HOUSING: ALUMINIUM; AGS RODS: ALUMINIUM	
Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered

ESKOM COPYRIGHT PROTECTED

4.1.3	Supplied with:	12 RODS PER SET * COLOUR CODE GREEN; and 1x Hump Backs Split pin	
4.1.4	Charpy V-notch test results	8J at -10 °C	
4.1.5	Bolt/Nut tightening torque	<75Nm	
4.1.6	Vertical Ultimate Strength	90kN	
4.1.7	Supplied with Preformed Armor Rods for suitable conductor	YES	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating:		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test, Sample test and Routine tests	
5.8	Slip test	Type tests and Sample test	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Corrosion test	Type tests only	
5.12	Drift test	Type test, Sample test and Routine tests	
5.13	Magnetic losses test	Type test	
5.14	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.81: Armor Grip Suspension (AGS) Unit for ACSR TERN Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	Armor Grip Suspension (AGS) Unit for ACSR TERN Conductor	
2.2	Drawing number & Revision number	D-DT 7033	
2.3	SAP No	0168757	
2.4	Original Equipment Manufacturer (OEM)	Xxxxxxx	
Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered

2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	Xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	Xxxxxxx	
2.8	Catalogue reference number	Xxxxxxx	
2.9	Armor Grip Suspension Clamp unit suitable for conductor:	ACSR TERN Conductor Dia. 27.00mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7033	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	Clevis dimension	TO SANS 60471 DESIGNATION 16L	
4.1.1.2	AGS HOUSING WIDTH	106mm	
4.1.1.3	ROD LENGTH	2035mm	
4.1.1.4	ROD DIA.:	7.62mm	
4.1.2	Material Grade:	M16 HDG BOLT: GRADE 8.8; M16 HDG WASHER: MILD STEEL; M16 HDG NUT: GRADE 181; SPLIT PIN: 316 STAINLESS STEEL; AGS STRAP: ALUMINIUM; NEOPRENE INSERT: NEOPRENE; AGS HOUSING: ALUMINIUM; AGS RODS: ALUMINIUM;	
4.1.3	Supplied with:	11 RODS PER SET * COLOUR CODE BLUE; and 1x Humpback Split pin	
4.1.4	Charpy V-notch test results	8J at -10 °C	
4.1.5	Bolt/Nut tightening torque	<75Nm	
4.1.6	Vertical Ultimate Strength	90kN	
4.1.7	Supplied with Preformed Armor Rods for suitable conductor	YES	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating:		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e. per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered

5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test, Sample test and Routine tests	
5.8	Slip test	Type tests and Sample test	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Corrosion test	Type tests only	
5.12	Drift test	Type test, Sample test and Routine tests	
5.13	Magnetic losses test	Type test	
5.14	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.82: Armor Grip Suspension (AGS) Unit for ACSR ZEBRA Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	Armor Grip Suspension (AGS) Unit for ACSR ZEBRA Conductor	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	xxxxxxx	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Armor Grip Suspension Clamp unit suitable for conductor:	ACSR ZEBRA Conductor Dia. 28.56mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	D-DT 7033	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	Clevis dimension	TO SANS 60471 DESIGNATION 16L	
4.1.1.2	AGS HOUSING WIDTH	106mm	
4.1.1.3	ROD LENGTH	2035mm	
4.1.1.4	ROD DIA.:	7.62mm	
4.1.2	Material Grade:	M16 HDG BOLT: GRADE 8.8; M16 HDG WASHER: MILD STEEL; M16 HDG NUT: GRADE 181; SPLIT PIN: 316 STAINLESS STEEL; AGS STRAP: ALUMINIUM; NEOPRENE INSERT: NEOPRENE; AGS HOUSING: ALUMINIUM; AGS RODS: ALUMINIUM;	
Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered

4.1.3	Supplied with:	12 RODS PER SET * COLOUR CODE YELLOW; and 1x Humpback Split pin	
4.1.4	Charpy V-notch test results	8J at -10 °C	
4.1.5	Bolt/Nut tightening torque	<75Nm	
4.1.6	Vertical Ultimate Strength	90kN	
4.1.7	Supplied with Preformed Armor Rods for suitable conductor	YES	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating:		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test, Sample test and Routine tests	
5.8	Slip test	Type tests and Sample test	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Corrosion test	Type tests only	
5.12	Drift test	Type test, Sample test and Routine tests	
5.13	Magnetic losses test	Type test	
5.14	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.83: Armor Grip Suspension (AGS) Unit for ACSR BERSFORT Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	Armor Grip Suspension (AGS) Unit for ACSR BERSFORT Conductor	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	xxxxxxx	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered

2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Armor Grip Suspension Clamp unit suitable for conductor:	ACSR BERSFORT Conductor Dia. 35.56mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	Clevis dimension	TO SANS 60471 DESIGNATION 16L	
4.1.1.2	AGS HOUSING WIDTH	129mm	
4.1.1.3	ROD LENGTH	2035mm	
4.1.1.4	ROD DIA.:	9.27mm	
4.1.2	Material Grade:	M16 HDG BOLT: GRADE 8.8; M16 HDG WASHER: MILD STEEL; M16 HDG NUT: GRADE 181; SPLIT PIN: 316 STAINLESS STEEL; AGS STRAP: ALUMINIUM; NEOPRENE INSERT: NEOPRENE; AGS HOUSING: ALUMINIUM; AGS RODS: ALUMINIUM;	
4.1.3	Supplied with:	13 RODS PER SET * COLOUR CODE WHITE; and 1x Humpback Split pin	
4.1.4	Charpy V-notch test results	8J at -10 °C	
4.1.5	Bolt/Nut tightening torque	<75Nm	
4.1.6	Vertical Ultimate Strength	90kN	
4.1.7	Supplied with Preformed Armor Rods for suitable conductor	YES	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating:		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered

5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test, Sample test and Routine tests	
5.8	Slip test	Type tests and Sample test	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Corrosion test	Type tests only	
5.12	Drift test	Type test, Sample test and Routine tests	
5.13	Magnetic losses test	Type test	
5.14	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.84: Trunnion Clamp for Line Post insulator suitable for conductor range Dia. 13-27mm with armour rods

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	Trunnion Clamp for Line Post insulator suitable for conductor range Dia. 13-27mm with armour rods	
2.2	Drawing number & Revision number	D-DT 7010	
2.3	SAP No	0165510	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Trunnion Clamp unit suitable for conductor (INCLUDING PREFORMED ARMOR RODS)	FOX, MINK, OAK AND HARE	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	Clamp dimensions	TO SANS 60720 & SANS 61952	
4.1.1.2	Clamping Width (minimum)	98.4mm	
4.1.1.3	Clamping Length (minimum)	165.1 mm	
4.1.2	Material Grade:	HEAT TREATED ALUMINIUM ALLOY	
4.1.3	Supplied with:	2x Hex Cap Bolts with split lock washers. Nuts to be captive or self-locking nuts	
4.1.4	Charpy V-notch test results	8J at -10 °C	
4.1.5	Bolt and Nut material	Hot deep Galvanised High Tensile Steel Grade 8.8 or Stainless Steel 316	
Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered

4.1.6	Bolt/Nut tightening torque	<75Nm	
4.1.7	Ultimate Body Strength	12.46kN	
4.1.8	Supplied with Preformed Armor Rods for suitable conductor	YES	
4.1.9	Finishing	Have smooth surfaces and all edges rounded to prevent formation of corona or damage to the conductor.	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating:		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test, Sample test and Routine tests	
5.8	Slip test	Type tests and Sample test	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Corrosion test	Type tests only	
5.12	Drift test	Type test, Sample test and Routine tests	
5.13	Magnetic losses test	Type test	
5.14	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.85: Trunnion Clamp for Line Post insulator suitable for conductor range Dia. 25-38mm with armour rods

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	Trunnion Clamp for Line Post insulator suitable for conductor range Dia. 25-38mm with armour rods	
2.2	Drawing number & Revision number	D-DT 7010	
2.3	SAP No	0165511	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered

2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Trunnion Clamp unit suitable for conductor (INCLUDING PREFORMED ARMOR RODS)	ACSR WOLF, CHICADEE, BEAR AND KINGBIRD Conductors	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	Clamp dimensions	TO SANS 60720 & SANS 61952	
4.1.1.2	Clamping Width (minimum)	98.4mm	
4.1.1.3	Clamping Length (minimum)	165.1 mm	
4.1.2	Material Grade:	HEAT TREATED ALUMINIUM ALLOY	
4.1.3	Supplied with:	2x Hex Cap Bolts with split lock washers. Nuts to be captive or self-locking nuts	
4.1.4	Charpy V-notch test results	8J at -10 °C	
4.1.5	Bolt and Nut material	Hot deep Galvanised High Tensile Steel Grade 8.8 or Stainless Steel 316	
4.1.6	Bolt/Nut tightening torque	<75Nm	
4.1.7	Ultimate Body Strength	12.46kN	
4.1.8	Supplied with Preformed Armor Rods for suitable conductor	YES	
4.1.9	Finishing	Have smooth surfaces and all edges rounded to prevent formation of corona or damage to the conductor.	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating:		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e. per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered

5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test, Sample test and Routine tests	
5.8	Slip test	Type tests and Sample test	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Corrosion test	Type tests only	
5.12	Drift test	Type test, Sample test and Routine tests	
5.13	Magnetic losses test	Type test	
5.14	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.86: Armor Grip Suspension (AGS) Unit for AAAC ASH Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	Armor Grip Suspension (AGS) Unit for AAAC ASH Conductor	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	xxxxxxx	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Armor Grip Suspension Clamp unit suitable for conductor:	AAAC ASH Conductor Dia. 17.40mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	Clevis dimension	TO SANS 60471 DESIGNATION 16L	
4.1.1.2	AGS HOUSING WIDTH	71mm	
4.1.1.3	ROD LENGTH	1372mm	
4.1.1.4	ROD DIA:	5.18mm	
4.1.2	Material Grade:	M16 HDG BOLT: GRADE 8.8; M16 HDG WASHER: MILD STEEL; M16 HDG NUT: GRADE 181; SPLIT PIN: 316 STAINLESS STEEL; AGS STRAP: ALUMINIUM; NEOPRENE INSERT: NEOPRENE; AGS HOUSING: ALUMINIUM; AGS RODS: ALUMINIUM;	
4.1.3	Supplied with:	11 RODS PER SET * COLOUR CODE YELLOW; and 1x Hump Backs Split pin	
Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered

4.1.4	Charpy V-notch test results	8J at -10 °C	
4.1.5	Bolt/Nut tightening torque	<75Nm	
4.1.6	Vertical Ultimate Strength	70kN	
4.1.7	Supplied with Preformed Armor Rods for suitable conductor	YES	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating:		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e. per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test, Sample test and Routine tests	
5.8	Slip test	Type tests and Sample test	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Corrosion test	Type tests only	
5.12	Drift test	Type test, Sample test and Routine tests	
5.13	Magnetic losses test	Type test	
5.14	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.87: Armor Grip Suspension (AGS) Unit for ACSR TIGER Conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	Armor Grip Suspension (AGS) Unit for ACSR TIGER Conductor	
2.2	Drawing number & Revision number	Xxxxxxx	
2.3	SAP No	Xxxxxxx	
2.4	Original Equipment Manufacturer (OEM)	Xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	Xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	Xxxxxxx	
2.8	Catalogue reference number	Xxxxxxx	
2.9	Armor Grip Suspension Clamp unit suitable for conductor:	ACSR TIGER Conductor Dia. 16.52mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered

2.12	Compliance to critical dimensions on Buyers Guide	Xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	Clevis dimension	TO SANS 60471 DESIGNATION 16L	
4.1.1.2	AGS HOUSING WIDTH	71mm	
4.1.1.3	ROD LENGTH	1372mm	
4.1.1.4	ROD DIA:	5.18mm	
4.1.2	Material Grade:	M16 HDG BOLT: GRADE 8.8; M16 HDG WASHER: MILD STEEL; M16 HDG NUT: GRADE 181; SPLIT PIN: 316 STAINLESS STEEL; AGS STRAP: ALUMINIUM; NEOPRENE INSERT: NEOPRENE; AGS HOUSING: ALUMINIUM; AGS RODS: ALUMINIUM;	
4.1.3	Supplied with:	11 RODS PER SET * COLOUR CODE RED; and 1x Hump Backs Split pin	
4.1.4	Charpy V-notch test results	8J at -10 °C	
4.1.5	Bolt/Nut tightening torque	<75Nm	
4.1.6	Vertical Ultimate Strength	70kN	
4.1.7	Supplied with Preformed Armor Rods for suitable conductor	YES	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating:		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e. per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test, Sample test and Routine tests	
5.8	Slip test	Type tests and Sample test	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Corrosion test	Type tests only	
5.12	Drift test	Type test, Sample test and Routine tests	
5.13	Magnetic losses test	Type test	
5.14	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.88: Trunnion Clamp for Line Post insulator suitable for conductor range Dia. 38 - 51mm with armour rods

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	Armor Grip Suspension (AGS) Unit for ACSR Rail Conductor	
2.2	Drawing number & Revision number	Xxxxxxx	
2.3	SAP No	Xxxxxxx	
2.4	Original Equipment Manufacturer (OEM)	Xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	Xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	Xxxxxxx	
2.8	Catalogue reference number	Xxxxxxx	
2.9	Armor Grip Suspension Clamp unit suitable for conductor:	ACSR Rail Conductor Dia. 29.59mm	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	Xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	Clevis dimension	TO SANS 60471 DESIGNATION 16L	
4.1.1.2	AGS HOUSING WIDTH	106mm	
4.1.1.3	ROD LENGTH	2035mm	
4.1.1.4	ROD DIA:	7.62mm	
4.1.2	Material Grade:	M16 HDG BOLT: GRADE 8.8; M16 HDG WASHER: MILD STEEL; M16 HDG NUT: GRADE 181; SPLIT PIN: 316 STAINLESS STEEL; AGS STRAP: ALUMINIUM; NEOPRENE INSERT: NEOPRENE; AGS HOUSING: ALUMINIUM; AGS RODS: ALUMINIUM;	
4.1.3	Supplied with:	12 RODS PER SET * COLOUR CODE BLUE; and 1x Hump Backs Split pin	
4.1.4	Charpy V-notch test results	8J at -10 °C	
4.1.5	Bolt/Nut tightening torque	<75Nm	
4.1.6	Vertical Ultimate Strength	70kN	
4.1.7	Supplied with Preformed Armor Rods for suitable conductor	YES	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating:		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e. per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test, Sample test and Routine tests	
5.8	Slip test	Type tests and Sample test	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Corrosion test	Type tests only	
5.12	Drift test	Type test, Sample test and Routine tests	
5.13	Magnetic losses test	Type test	
5.14	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.89: Trunnion Clamp for Line Post insulator suitable for conductor range Dia. 38 - 51mm with armour rods

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	Trunnion Clamp for Line Post insulator suitable for conductor range Dia. 38 - 51mm with armour rods	
2.2	Drawing number & Revision number	D-DT 7010	
2.3	SAP No	0165512	
2.4	Original Equipment Manufacturer (OEM)	Xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	Xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	Xxxxxxx	
2.8	Catalogue reference number	Xxxxxxx	
2.9	Trunnion Clamp unit suitable for conductor (INCLUDING PREFORMED ARMOR RODS)	ACSR TERN, ZEBRA, BERSFORT Conductors	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	Xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	Clamp dimensions	TO SANS 60720 & SANS 61952	
4.1.1.2	Clamping Width (minimum)	98.4mm	
4.1.1.3	Clamping Length (minimum)	165.1 mm	
4.1.2	Material Grade:	HEAT TREATED ALUMINIUM ALLOY	
4.1.3	Supplied with:	2x Hex Cap Bolts with split lock washers. Nuts to be captive or self-locking nuts	
4.1.4	Charpy V-notch test results	8J at -10 °C	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.1.5	Bolt and Nut material	Hot deep Galvanised High Tensile Steel Grade 8.8 or Stainless Steel 316	
4.1.6	Bolt/Nut tightening torque	<75Nm	
4.1.7	Ultimate Body Strength	12.46kN	
4.1.8	Supplied with Preformed Armor Rods for suitable conductor	YES	
4.1.9	Finishing	Have smooth surfaces and all edges rounded to prevent formation of corona or damage to the conductor.	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating:		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test, Sample test and Routine tests	
5.8	Slip test	Type tests and Sample test	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Corrosion test	Type tests only	
5.12	Drift test	Type test, Sample test and Routine tests	
5.13	Magnetic losses test	Type test	
5.14	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.90: Trunnion Angle Clamp for Line Post insulator suitable for conductor range Dia. 13-27mm with armour rods

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	Trunnion Angle Clamp for Line Post insulator suitable for conductor range Dia. 13-27mm with armour rods	
2.2	Drawing number & Revision number	D-DT 7011	
2.3	SAP No	0165522	
2.4	Original Equipment Manufacturer (OEM)	Xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	Xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	Xxxxxxx	
2.8	Catalogue reference number	Xxxxxxx	
2.9	Trunnion Clamp unit suitable for conductor (INCLUDING PREFORMED ARMOR RODS)	FOX, MINK, OAK AND HARE	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	Xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	Clamp dimensions	TO SANS 60720 & SANS 61952	
4.1.1.2	Clamping Width (minimum)	98.4mm	
4.1.1.3	Clamping Length (minimum)	165.1 mm	
4.1.2	Material Grade:	HEAT TREATED ALUMINIUM ALLOY	
4.1.3	Supplied with:	2x Hex Cap Bolts with split lock washers. Nuts to be captive or self-locking nuts	
4.1.4	Charpy V-notch test results	8J at -10 °C	
4.1.5	Bolt and Nut material	Hot deep Galvanised High Tensile Steel Grade 8.8 or Stainless Steel 316	
4.1.6	Bolt/Nut tightening torque	<75Nm	
4.1.7	Ultimate Body Strength	12.46kN	
4.1.8	Supplied with Preformed Armor Rods for suitable conductor	YES	
4.1.9	Maximum take-off angle vertical	20°	
4.1.10	Maximum take-off angle Horizontal	20°	
4.1.11	Finishing	Have smooth surfaces and all edges rounded to prevent formation of corona or damage to the conductor.	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating:		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test, Sample test and Routine tests	
5.8	Slip test	Type tests and Sample test	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Corrosion test	Type tests only	
5.12	Drift test	Type test, Sample test and Routine tests	
5.13	Magnetic losses test	Type test	
5.14	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.91: Trunnion Angle Clamp for Line Post insulator suitable for conductor range Dia. 25-38mm with armour rods

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	Trunnion Angle Clamp for Line Post insulator suitable for conductor range Dia. 25-38mm with armour rods	
2.2	Drawing number & Revision number	D-DT 7011	
2.3	SAP No	0165523	
2.4	Original Equipment Manufacturer (OEM)	Xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	Xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	Xxxxxxx	
2.8	Catalogue reference number	Xxxxxxx	
2.9	Trunnion Clamp unit suitable for conductor (INCLUDING PREFORMED ARMOR RODS)	ACSR WOLF, CHICADEE, BEAR AND KINGBIRD Conductors	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	Xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	Clamp dimensions	TO SANS 60720 & SANS 61952	
4.1.1.2	Clamping Width (minimum)	98.4mm	
4.1.1.3	Clamping Length (minimum)	165.1 mm	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.1.2	Material Grade:	HEAT TREATED ALUMINIUM ALLOY	
4.1.3	Supplied with:	2x Hex Cap Bolts with split lock washers. Nuts to be captive or self-locking nuts	
4.1.4	Charpy V-notch test results	8J at -10 °C	
4.1.5	Bolt and Nut material	Hot deep Galvanised High Tensile Steel Grade 8.8 or Stainless Steel 316	
4.1.6	Bolt/Nut tightening torque	<75Nm	
4.1.7	Ultimate Body Strength	12.46kN	
4.1.8	Supplied with Preformed Armor Rods for suitable conductor	YES	
4.1.9	Maximum take-off angle vertical	20°	
4.1.10	Maximum take-off angle Horizontal	20°	
4.1.11	Finishing	Have smooth surfaces and all edges rounded to prevent formation of corona or damage to the conductor.	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating:		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test, Sample test and Routine tests	
5.8	Slip test	Type tests and Sample test	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Corrosion test	Type tests only	
5.12	Drift test	Type test, Sample test and Routine tests	
5.13	Magnetic losses test	Type test	
5.14	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.92: Trunnion Angle Clamp for Line Post insulator suitable for conductor range Dia. 38 - 51mm with armour rods

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp type	Trunnion Angle Clamp for Line Post insulator suitable for conductor range Dia. 38 - 51mm with armour rods	
2.2	Drawing number & Revision number	D-DT 7011	
2.3	SAP No	0183976	
2.4	Original Equipment Manufacturer (OEM)	Xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	Xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	Xxxxxxx	
2.8	Catalogue reference number	Xxxxxxx	
2.9	Trunnion Clamp unit suitable for conductor (INCLUDING PREFORMED ARMOR RODS)	ACSR TERN, ZEBRA, BERSFORT Conductors	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	Xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	Clamp dimensions	TO SANS 60720 & SANS 61952	
4.1.1.2	Clamping Width (minimum)	98.4mm	
4.1.1.3	Clamping Length (minimum)	165.1 mm	
4.1.2	Material Grade:	HEAT TREATED ALUMINIUM ALLOY	
4.1.3	Supplied with:	2x Hex Cap Bolts with split lock washers. Nuts to be captive or self-locking nuts	
4.1.4	Charpy V-notch test results	8J at -10 °C	
4.1.5	Bolt and Nut material	Hot deep Galvanised High Tensile Steel Grade 8.8 or Stainless Steel 316	
4.1.6	Bolt/Nut tightening torque	<75Nm	
4.1.7	Ultimate Body Strength	12.46kN	
4.1.8	Supplied with Preformed Armor Rods for suitable conductor	YES	
4.1.9	Maximum take-off angle vertical	20°	
4.1.10	Maximum take-off angle Horizontal	20°	
4.1.11	Finishing	Have smooth surfaces and all edges rounded to prevent formation of corona or damage to the conductor.	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating:		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Nominal System Voltage (Un)	132kV	
4.3.2	Maximum System Voltage (Um)	145kV	
4.3.3	Continuous operating temperature	≤ 80 °C	
4.3.4	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.5	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Damage and failure load tests	Type test, Sample test and Routine tests	
5.8	Slip test	Type tests and Sample test	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Corrosion test	Type tests only	
5.12	Drift test	Type test, Sample test and Routine tests	
5.13	Magnetic losses test	Type test	
5.14	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.93: Multifrequency Vibration Damper suitable for Oak or Hare (Dia. 13.9-15mm) conductors

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp Type	Multifrequency Vibration Damper suitable for Oak or Hare (Dia. 13.9-15mm) conductors	
2.2	Drawing number & Revision number	D-DT7005	
2.3	SAP No	0226767	
2.4	Original Equipment Manufacturer (OEM)	Xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	Xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	Xxxxxxx	
2.8	Catalogue reference number	Xxxxxxx	
2.9	Multifrequency Vibration Damper suitable for conductor:	Oak or Hare (Dia. 13.9-15mm)	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	Xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	VIBRATION DAMPER LENGTH	278mm	
4.1.1.2	ROD SHOP LENGTH	551mm	
4.1.1.3	ROD DIA.	6.35mm	
4.1.2	Material Grade:	HIGH GRADE ALUMINIUM ALLOY FOR RETAINING ROD (HELICAL) AND ATTACHMENT CLAMP MATERIAL FOR THE MESSENGER WEIGHTS SHALL BE GALVANICALLY COMPATIBLE WITH THE MESSENGER RODS	
4.1.3	Supplied with:	ATTACHMENT CLAMP (NOT THE BOLTED TYPE) WITH NEOPRENE PAD, HELICAL RETAINING RODS AND MESSENGER WEIGHTS ASSEMBLY SHALL BE SUPPLIED AS ONE COMPLETE UNIT	
4.1.4	COLOUR CODES	OAK: BROWN AND HARE: BROWN	
4.1.5	DAMPING FREQUENCY RANGE	MINIMUM: LESS THAN 12Hz MAXIMUM: GREATER THAN 40Hz WITH AN EFFICIENCY OF AT LEAST 70%	
4.1.6	Specified minimum Load	1.25Kn	
4.1.7	Maximum slip movement	1mm	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating:		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e. per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	Nominal System Voltage (Un)	132kV	
4.3.4	Maximum System Voltage (Um)	145Kv	
4.3.5	One second Short-Circuit Current Rating Withstand	31.5Ka	
5	Test reports and certificates (According to SANS 61284 and SANS 61897)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Slip test	Type tests and Sample test	
5.8	Breakaway bolt test	Type tests and Sample test	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Attachment of weights to messenger cable test	Type test and Sample test	
5.12	Attachment of clamp to messenger cable test	Type test and Sample test	
5.13	Corrosion protection test	Type tests only	
5.14	Damper performance test:		
5.14.1	Damper characteristic test	Type test and Sample test	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
5.14.2	Damper effectiveness evaluation	Type test and Sample test	
5.15	Damper fatigue test	Type test	
5.16	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.94: Multifrequency Vibration Damper suitable for WOLF (Dia. 18.13mm) conductors

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp Type	Multifrequency Vibration Damper suitable for WOLF (Dia. 18.13mm) conductors	
2.2	Drawing number & Revision number	D-DT7005	
2.3	SAP No	0168960	
2.4	Original Equipment Manufacturer (OEM)	Xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	Xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	Xxxxxxx	
2.8	Catalogue reference number	Xxxxxxx	
2.9	Multifrequency Vibration Damper suitable for conductor:	WOLF (Dia. 18.13mm)	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	Xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	VIBRATION DAMPER LENGTH	278mm	
4.1.1.2	ROD SHOP LENGTH	723mm	
4.1.1.3	ROD DIA.	6.35mm	
4.1.2	Material Grade:	HIGH GRADE ALUMINIUM ALLOY FOR RETAINING ROD (HELICAL) AND ATTACHMENT CLAMP MATERIAL FOR THE MESSENGER WEIGHTS SHALL BE GALVANICALLY COMPATIBLE WITH THE MESSENGER RODS	
4.1.3	Supplied with:	ATTACHMENT CLAMP (NOT THE BOLTED TYPE) WITH NEOPRENE PAD, HELICAL RETAINING RODS AND MESSENGER WEIGHTS ASSEMBLY SHALL BE SUPPLIED AS ONE COMPLETE UNIT	
4.1.4	COLOUR CODE	WOLF: WHITE	
4.1.5	DAMPING FREQUENCY RANGE	MINIMUM: LESS THAN 12Hz MAXIMUM : GREATER THAN 40Hz WITH AN EFFICIENCY OF AT LEAST 70%	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.1.6	Specified minimum Load	1.25kN	
4.1.7	Maximum slip movement	1mm	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating:		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	Nominal System Voltage (Un)	132kV	
4.3.4	Maximum System Voltage (Um)	145kV	
4.3.5	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284 and SANS 61897)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Slip test	Type tests and Sample test	
5.8	Breakaway bolt test	Type tests and Sample test	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Attachment of weights to messenger cable test	Type test and Sample test	
5.12	Attachment of clamp to messenger cable test	Type test and Sample test	
5.13	Corrosion protection test	Type tests only	
5.14	Damper performance test:		
5.14.1	Damper characteristic test	Type test and Sample test	
5.14.2	Damper effectiveness evaluation	Type test and Sample test	
5.15	Damper fatigue test	Type test	
5.16	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.95: Multifrequency Vibration Damper suitable for CHICADEE (Dia. 18.87mm) conductors

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp Type	Multifrequency Vibration Damper suitable for CHICADEE (Dia. 18.87mm) conductors	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	xxxxxxx	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Multifrequency Vibration Damper suitable for conductor:	CHICADEE (Dia. 18.87mm)	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	VIBRATION DAMPER LENGTH	278mm	
4.1.1.2	ROD SHOP LENGTH	739mm	
4.1.1.3	ROD DIA.	6.35mm	
4.1.2	Material Grade:	HIGH GRADE ALUMINIUM ALLOY FOR RETAINING ROD (HELICAL) AND ATTACHMENT CLAMP MATERIAL FOR THE MESSENGER WEIGHTS SHALL BE GALVANICALLY COMPATIBLE WITH THE MESSENGER RODS	
4.1.3	Supplied with:	ATTACHMENT CLAMP (NOT THE BOLTED TYPE) WITH NEOPRENE PAD, HELICAL RETAINING RODS AND MESSENGER WEIGHTS ASSEMBLY SHALL BE SUPPLIED AS ONE COMPLETE UNIT	
4.1.4	COLOUR CODE	CHICADEE : RED	
4.1.5	DAMPING FREQUENCY RANGE	MINIMUM : LESS THAN 12Hz MAXIMUM : GREATER THAN 40Hz WITH AN EFFICIENCY OF AT LEAST 70%	
4.1.6	Specified minimum Load	1.25kN	
4.1.7	Maximum slip movement	1mm	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating:		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	Nominal System Voltage (Un)	132kV	
4.3.4	Maximum System Voltage (Um)	145kV	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.3.5	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284 and SANS 61897)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Slip test	Type tests and Sample test	
5.8	Breakaway bolt test	Type tests and Sample test	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Attachment of weights to messenger cable test	Type test and Sample test	
5.12	Attachment of clamp to messenger cable test	Type test and Sample test	
5.13	Corrosion protection test	Type tests only	
5.14	Damper performance test:		
5.14.1	Damper characteristic test	Type test and Sample test	
5.14.2	Damper effectiveness evaluation	Type test and Sample test	
5.15	Damper fatigue test	Type test	
5.16	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.96: Multifrequency Vibration Damper suitable for BEAR and KINGBIRD (Dia. 23.45 - 23.90mm) conductors

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp Type	Multifrequency Vibration Damper suitable for BEAR and KINGBIRD (Dia. 23.45 - 23.90mm) conductors	
2.2	Drawing number & Revision number	D-DT7005	
2.3	SAP No	0168893	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Multifrequency Vibration Damper suitable for conductor:	BEAR and KINGBIRD (Dia. 23.45 - 23.90mm)	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	VIBRATION DAMPER LENGTH	407mm	
4.1.1.2	ROD SHOP LENGTH	891mm	
4.1.1.3	ROD DIA.	6.35mm	
4.1.2	Material Grade:	HIGH GRADE ALUMINIUM ALLOY FOR RETAINING ROD (HELICAL) AND ATTACHMENT CLAMP MATERIAL FOR THE MESSENGER WEIGHTS SHALL BE GALVANICALLY COMPATIBLE WITH THE MESSENGER RODS	
4.1.3	Supplied with:	ATTACHMENT CLAMP (NOT THE BOLTED TYPE) WITH NEOPRENE PAD, HELICAL RETAINING RODS AND MESSENGER WEIGHTS ASSEMBLY SHALL BE SUPPLIED AS ONE COMPLETE UNIT	
4.1.4	COLOUR CODES	KINGBIRD: ORANGE AND BEAR: ORANGE	
4.1.5	DAMPING FREQUENCY RANGE	MINIMUM: LESS THAN 12Hz MAXIMUM: GREATER THAN 40Hz WITH AN EFFICIENCY OF AT LEAST 70%	
4.1.6	Specified minimum Load	2.5kN	
4.1.7	Maximum slip movement	1mm	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating:		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	Nominal System Voltage (Un)	132kV	
4.3.4	Maximum System Voltage (Um)	145kV	
4.3.5	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284 and SANS 61897)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Slip test	Type tests and Sample test	
5.8	Breakaway bolt test	Type tests and Sample test	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Attachment of weights to messenger cable test	Type test and Sample test	
5.12	Attachment of clamp to messenger cable test	Type test and Sample test	
5.13	Corrosion protection test	Type tests only	
5.14	Damper performance test:		
5.14.1	Damper characteristic test	Type test and Sample test	
5.14.2	Damper effectiveness evaluation	Type test and Sample test	
5.15	Damper fatigue test	Type test	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
5.16	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.97: Multifrequency Vibration Damper suitable for TERN (Dia. 27.00mm) conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp Type	Multifrequency Vibration Damper suitable for TERN (Dia. 27.00mm) conductor	
2.2	Drawing number & Revision number	D-DT7005	
2.3	SAP No	0168894	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Multifrequency Vibration Damper suitable for conductor:	TERN (Dia. 27.00mm)	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	VIBRATION DAMPER LENGTH	407mm	
4.1.1.2	ROD SHOP LENGTH	1047mm	
4.1.1.3	ROD DIA.	7.62mm	
4.1.2	Material Grade:	HIGH GRADE ALUMINIUM ALLOY FOR RETAINING ROD (HELICAL) AND ATTACHMENT CLAMP MATERIAL FOR THE MESSENGER WEIGHTS SHALL BE GALVANICALLY COMPATIBLE WITH THE MESSENGER RODS	
4.1.3	Supplied with:	ATTACHMENT CLAMP (NOT THE BOLTED TYPE) WITH NEOPRENE PAD, HELICAL RETAINING RODS AND MESSENGER WEIGHTS ASSEMBLY SHALL BE SUPPLIED AS ONE COMPLETE UNIT	
4.1.4	COLOUR CODES	TERN: BLUE	
4.1.5	DAMPING FREQUENCY RANGE	MINIMUM: LESS THAN 12Hz MAXIMUM: GREATER THAN 40Hz WITH AN EFFICIENCY OF AT LEAST 70%	
4.1.6	Specified minimum Load	2.5kN	
4.1.7	Maximum slip movement	1mm	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating:		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	Nominal System Voltage (Un)	132kV	
4.3.4	Maximum System Voltage (Um)	145kV	
4.3.5	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284 and SANS 61897)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Slip test	Type tests and Sample test	
5.8	Breakaway bolt test	Type tests and Sample test	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Attachment of weights to messenger cable test	Type test and Sample test	
5.12	Attachment of clamp to messenger cable test	Type test and Sample test	
5.13	Corrosion protection test	Type tests only	
5.14	Damper performance test:		
5.14.1	Damper characteristic test	Type test and Sample test	
5.14.2	Damper effectiveness evaluation	Type test and Sample test	
5.15	Damper fatigue test	Type test	
5.16	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.98: Multifrequency Vibration Damper suitable for ASH (Dia. 17.40mm) conductors

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp Type	Multifrequency Vibration Damper suitable for ASH (Dia. 17.40mm) conductors	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	xxxxxxx	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
2.8	Catalogue reference number	xxxxxxx	
2.9	Multifrequency Vibration Damper suitable for conductor:	ASH (Dia. 17.40mm)	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	VIBRATION DAMPER LENGTH	278mm	
4.1.1.2	ROD SHOP LENGTH	669mm	
4.1.1.3	ROD DIA	6.35mm	
4.1.2	Material Grade:	HIGH GRADE ALUMINIUM ALLOY FOR RETAINING ROD (HELICAL) AND ATTACHMENT CLAMP MATERIAL FOR THE MESSENGER WEIGHTS SHALL BE GALVANICALLY COMPATIBLE WITH THE MESSENGER RODS	
4.1.3	Supplied with:	ATTACHMENT CLAMP (NOT THE BOLTED TYPE) WITH NEOPRENE PAD, HELICAL RETAINING RODS AND MESSENGER WEIGHTS ASSEMBLY SHALL BE SUPPLIED AS ONE COMPLETE UNIT	
4.1.4	COLOUR CODE	TIGER: YELLOW	
4.1.5	DAMPING FREQUENCY RANGE	MINIMUM : LESS THAN 12Hz MAXIMUM : GREATER THAN 40Hz WITH AN EFFICIENCY OF AT LEAST 70%	
4.1.6	Specified minimum Load	1.25kN	
4.1.7	Maximum slip movement	1mm	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating:		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e. per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	Nominal System Voltage (Un)	132kV	
4.3.4	Maximum System Voltage (Um)	145kV	
4.3.5	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284 and SANS 61897)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Slip test	Type tests and Sample test	
5.8	Breakaway bolt test	Type tests and Sample test	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Attachment of weights to messenger cable test	Type test and Sample test	
5.12	Attachment of clamp to messenger cable test	Type test and Sample test	
5.13	Corrosion protection test	Type tests only	
5.14	Damper performance test:		
5.14.1	Damper characteristic test	Type test and Sample test	
5.14.2	Damper effectiveness evaluation	Type test and Sample test	
5.15	Damper fatigue test	Type test	
5.16	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.99: Multifrequency Vibration Damper suitable for TIGER (Dia. 16.52mm) conductors

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp Type	Multifrequency Vibration Damper suitable for TIGER (Dia. 16.52mm) conductors	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	xxxxxxx	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Multifrequency Vibration Damper suitable for conductor:	TIGER (Dia. 16.52mm)	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	VIBRATION DAMPER LENGTH	278mm	
4.1.1.2	ROD SHOP LENGTH	685mm	
4.1.1.3	ROD DIA	6.35mm	
4.1.2	Material Grade:	HIGH GRADE ALUMINIUM ALLOY FOR RETAINING ROD (HELICAL) AND ATTACHMENT CLAMP MATERIAL FOR THE MESSENGER WEIGHTS SHALL BE GALVANICALLY COMPATIBLE WITH THE MESSENGER RODS	
4.1.3	Supplied with:	ATTACHMENT CLAMP (NOT THE BOLTED TYPE) WITH NEOPRENE PAD, HELICAL RETAINING RODS AND MESSENGER WEIGHTS ASSEMBLY SHALL BE SUPPLIED AS ONE COMPLETE UNIT	
4.1.4	COLOUR CODE	TIGER : RED	
4.1.5	DAMPING FREQUENCY RANGE	MINIMUM : LESS THAN 12Hz MAXIMUM : GREATER THAN 40Hz WITH AN EFFICIENCY OF AT LEAST 70%	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.1.6	Specified minimum Load	1.25kN	
4.1.7	Maximum slip movement	1mm	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating:		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e. per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	Nominal System Voltage (Un)	132kV	
4.3.4	Maximum System Voltage (Um)	145kV	
4.3.5	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284 and SANS 61897)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Slip test	Type tests and Sample test	
5.8	Breakaway bolt test	Type tests and Sample test	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Attachment of weights to messenger cable test	Type test and Sample test	
5.12	Attachment of clamp to messenger cable test	Type test and Sample test	
5.13	Corrosion protection test	Type tests only	
5.14	Damper performance test:		
5.14.1	Damper characteristic test	Type test and Sample test	
5.14.2	Damper effectiveness evaluation	Type test and Sample test	
5.15	Damper fatigue test	Type test	
5.16	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.100: Multifrequency Vibration Damper suitable for RAIL (Dia. 29.59mm) conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp Type	Multifrequency Vibration Damper suitable for RAIL (Dia. 29.59mm) conductor	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	xxxxxxx	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
2.8	Catalogue reference number	xxxxxxx	
2.9	Multifrequency Vibration Damper suitable for conductor:	RAIL (Dia. 29.59mm)	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	VIBRATION DAMPER LENGTH	437mm	
4.1.1.2	ROD SHOP LENGTH	1166mm	
4.1.1.3	ROD DIA	7.62mm	
4.1.2	Material Grade:	HIGH GRADE ALUMINIUM ALLOY FOR RETAINING ROD (HELICAL) AND ATTACHMENT CLAMP MATERIAL FOR THE MESSENGER WEIGHTS SHALL BE GALVANICALLY COMPATIBLE WITH THE MESSENGER RODS	
4.1.3	Supplied with:	ATTACHMENT CLAMP (NOT THE BOLTED TYPE) WITH NEOPRENE PAD, HELICAL RETAINING RODS AND MESSENGER WEIGHTS ASSEMBLY SHALL BE SUPPLIED AS ONE COMPLETE UNIT	
4.1.4	COLOUR CODE	GREEN	
4.1.5	DAMPING FREQUENCY RANGE	MINIMUM : LESS THAN 12Hz MAXIMUM : GREATER THAN 40Hz WITH AN EFFICIENCY OF AT LEAST 70%	
4.1.6	Specified minimum Load	2.5kN	
4.1.7	Maximum slip movement	1mm	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating:		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e. per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	Nominal System Voltage (Un)	132kV	
4.3.4	Maximum System Voltage (Um)	145kV	
4.3.5	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284 and SANS 61897)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Slip test	Type tests and Sample test	
5.8	Breakaway bolt test	Type tests and Sample test	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Attachment of weights to messenger cable test	Type test and Sample test	
5.12	Attachment of clamp to messenger cable test	Type test and Sample test	
5.13	Corrosion protection test	Type tests only	
5.14	Damper performance test:		
5.14.1	Damper characteristic test	Type test and Sample test	
5.14.2	Damper effectiveness evaluation	Type test and Sample test	
5.15	Damper fatigue test	Type test	
5.16	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.101: Multifrequency Vibration Damper suitable for ZEBRA (Dia. 28.56mm) conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp Type	Multifrequency Vibration Damper suitable for ZEBRA (Dia. 28.56mm) conductor	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	xxxxxxx	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Multifrequency Vibration Damper suitable for conductor:	ZEBRA (Dia. 28.56mm)	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	VIBRATION DAMPER LENGTH	437mm	
4.1.1.2	ROD SHOP LENGTH	1117mm	
4.1.1.3	ROD DIA.	7.62mm	
4.1.2	Material Grade:	HIGH GRADE ALUMINIUM ALLOY FOR RETAINING ROD (HELICAL) AND ATTACHMENT CLAMP MATERIAL FOR THE MESSENGER WEIGHTS SHALL BE GALVANICALLY COMPATIBLE WITH THE MESSENGER RODS	
4.1.3	Supplied with:	ATTACHMENT CLAMP (NOT THE BOLTED TYPE) WITH NEOPRENE PAD, HELICAL RETAINING RODS AND MESSENGER WEIGHTS ASSEMBLY SHALL BE SUPPLIED AS ONE COMPLETE UNIT	
4.1.4	COLOUR CODE	YELLOW	

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.1.5	DAMPING FREQUENCY RANGE	MINIMUM: LESS THAN 12Hz MAXIMUM: GREATER THAN 40Hz WITH AN EFFICIENCY OF AT LEAST 70%	
4.1.6	Specified minimum Load	2.5kN	
4.1.7	Maximum slip movement	1mm	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating:		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	Nominal System Voltage (Un)	132kV	
4.3.4	Maximum System Voltage (Um)	145kV	
4.3.5	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284 and SANS 61897)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Slip test	Type tests and Sample test	
5.8	Breakaway bolt test	Type tests and Sample test	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Attachment of weights to messenger cable test	Type test and Sample test	
5.12	Attachment of clamp to messenger cable test	Type test and Sample test	
5.13	Corrosion protection test	Type tests only	
5.14	Damper performance test:		
5.14.1	Damper characteristic test	Type test and Sample test	
5.14.2	Damper effectiveness evaluation	Type test and Sample test	
5.15	Damper fatigue test	Type test	
5.16	Corona and RIV test	Type test	
6	Comments and Deviations:		

Table A.102: Multifrequency Vibration Damper suitable for BERSFORD (Dia. 35.56mm) conductor

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
1	Eskom Standard and Specifications Referred to: [1] 240-75883154- Current Carrying Compression Fittings for Overhead Sub-Transmission Systems		
2	Purchasing Details:		
2.1	Clamp Type	Multifrequency Vibration Damper suitable for BERSFORD (Dia. 35.56mm) conductor	
2.2	Drawing number & Revision number	xxxxxxx	
2.3	SAP No	xxxxxxx	
2.4	Original Equipment Manufacturer (OEM)	xxxxxxx	
2.5	Country of origin	South Africa	
2.6	Trade name of the clamp unit	xxxxxxx	
2.7	Manufacturer's Product code/model/serial number	xxxxxxx	
2.8	Catalogue reference number	xxxxxxx	
2.9	Multifrequency Vibration Damper suitable for conductor:	BERSFORD (Dia. 35.56mm)	
2.10	Physical identification mark on product	Trademark, Date of manufacture and mechanical failing load	
2.11	Compliance with IEC/SANS 61284	Test Certificates	
2.12	Compliance to critical dimensions on Buyers Guide	xxxxxxx	
2.13	Item sample required	YES	
2.14	Detailed installation instructions of the fitting required?	YES	
3	Site Operating Conditions		
3.1	Maximum ambient temperature	50 °C	
3.2	Minimum ambient temperature	-10 °C	
3.3	Maximum daily average	35 °C	
3.4	Maximum daily variation	35 °C	
3.5	Altitude above sea level	1800m	
4	TECHNICAL REQUIREMENTS		
4.1	Mechanical properties		
4.1.1	Dimensions:		
4.1.1.1	VIBRATION DAMPER LENGTH	437mm	
4.1.1.2	ROD SHOP LENGTH	1403mm	
4.1.1.3	ROD DIA.	7.62mm	
4.1.2	Material Grade:	High Grade Aluminium Alloy for Retaining Rod (Helical) And Attachment Clamp Material for The Messenger Weights Shall Be Galvanically Compatible with The Messenger Rods	
4.1.3	Supplied with:	Attachment Clamp (Not the Bolted Type) With Neoprene Pad, Helical Retaining Rods and Messenger Weights Assembly Shall Be Supplied As One Complete Unit	
4.1.4	COLOUR CODE	WHITE	
4.1.5	DAMPING FREQUENCY RANGE	MINIMUM: LESS THAN 12Hz MAXIMUM: GREATER THAN 40Hz WITH AN EFFICIENCY OF AT LEAST 70%	
4.1.6	Specified minimum Load	2.5kN	
4.1.7	Maximum slip movement	1mm	
4.2	Electrical Jointing Compound		
4.2.1	Type of compound	Required	
4.2.2	Trade name	Required	
4.2.3	Recommended quantity per fitting	Required	
4.2.4	Are core tubes pre-filled and sealed?	Required	
4.2.5	Is compound for outer core packed separately	Required	
4.2.6	Container used to hold compound for outer tube	Required	
4.2.7	Source of compound supply	Required	
4.2.8	Temperature rating:		
4.2.8.1	Continuous operating temperature	≤ 80 °C	
4.2.8.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.2.9	Degree of adhesion	Required	

ESKOM COPYRIGHT PROTECTED

Item no.	Description	Schedule A: Eskom's specific requirements	Schedule B: Guarantees and technical particulars of equipment offered
4.2.10	Performance in wet or saltwater conditions	YES	
4.2.11	Method of marketing i.e., per tube, container, etc	Required	
4.3	Electrical ratings		
4.3.1	Continuous operating temperature	≤ 80 °C	
4.3.2	Maximum temperature under short-circuit condition	≤ 200 °C	
4.3.3	Nominal System Voltage (U _n)	132kV	
4.3.4	Maximum System Voltage (U _m)	145kV	
4.3.5	One second Short-Circuit Current Rating Withstand	31.5kA	
5	Test reports and certificates (According to SANS 61284 and SANS 61897)		Report Number
5.1	Test authority (approved person/organisation)	SABS/CSIR	
5.2	Material grade certification	Required	
5.3	Dimensional and material verification	Type test, Sample test and Routine tests	
5.4	Visual Examination test	Type test, Sample test and Routine tests	
5.5	Hot dip galvanizing	Type test and Sample test	
5.6	Non-destructive testing	Type test, Sample test and Routine tests	
5.7	Slip test	Type tests and Sample test	
5.8	Breakaway bolt test	Type tests and Sample test	
5.9	Clamp bolt tightening test	Type test and Sample test	
5.10	Short Circuit test	Type tests only	
5.11	Attachment of weights to messenger cable test	Type test and Sample test	
5.12	Attachment of clamp to messenger cable test	Type test and Sample test	
5.13	Corrosion protection test	Type tests only	
5.14	Damper performance test:		
5.14.1	Damper characteristic test	Type test and Sample test	
5.14.2	Damper effectiveness evaluation	Type test and Sample test	
5.15	Damper fatigue test	Type test	
5.16	Corona and RIV test	Type test	
6	Comments and Deviations:		