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TITLE	SPECIFICATION FOR CURRENT-CARRYING CONNECTORS AND JOINTS FOR LV ABC	REFERENCE	CP_TSSPEC_020	REV	3
		DATE:		AUGUST 2018	
		PAGE:	1	OF	47

TABLE OF CONTENTS

	Page
FOREWORD	3
INTRODUCTION	4
1 SCOPE	4
2 NORMATIVE REFERENCES	4
3 DEFINITIONS AND ABBREVIATIONS	4
4 REQUIREMENTS	4
4.1 General	4
4.2 Conductor sizes	4
5 TESTS	5
6 MARKING, LABELLING AND PACKAGING	5
7 DOCUMENTATION	5
8 TRAINING	6
9 QUALITY ASSURANCE	6
10 ENVIRONMENTAL MANAGEMENT	6
11 HEALTH AND SAFETY	6
Annex A – Bibliography	7
Annex B – Revision information	8
Annex C: ITEM 1: IPC 25-95/25-95 ABC MAIN – SAP 517	9
Annex C: ITEM 2: IPC 25-95/10-16 ABC SERVICES – SAP 518	11
Annex C: ITEM 3: IPC 25-95/1.5-6 ABC SL– SAP 519	13
Annex C: ITEM 4: IPC 120/120 ABC MAIN – SAP 520	15
Annex C: ITEM 5: IPC 120/10-16 ABC SERVICE – SAP 521	17
Annex C: ITEM 6: LUG BM INS 25 ABC – SAP 522	19
Annex C: ITEM 7: LUG BM INS 50 ABC – SAP 523	21
Annex C: ITEM 8: LUG BM INS 55 ABC – SAP 524	23
Annex C: ITEM 10: LUG BM INS 95 ABC – SAP 526	27
Annex C: ITEM 11: LUG BM INS 120 ABC – SAP 527	29
Annex C: ITEM 12: JNT NT INS 25 ABC – SAP 528	31
Annex C: ITEM 13: JNT NT INS 50 ABC – SAP 529	33
Annex C: ITEM 15: JNT NT INS 95 ABC – SAP 531	37

**SPECIFICATION FOR CURRENT-CARRYING
CONNECTORS AND JOINTS FOR LV ABC**

REFERENCE REV
CP_TSSPEC_020 **3**
PAGE **2** OF **48**

Annex C: ITEM 16: JNT NT INS 120 ABC – SAP 532.....39
Annex C: ITEM 17: JNT FT NT INS 55 ABC – SAP 53341
Annex C: ITEM 18: JNT FT NT INS 70 ABC – SAP 53443
Annex C: ITEM 19: END CAP 25-95/120ABC – SAP 535/536.....45
Annex D – Stock Items.....47

FOREWORD

Recommendations for corrections, additions or deletions should be addressed to the:

Technology Services Manager
City Power Johannesburg (Pty) Ltd
P O Box 38766
Booyens
2016

INTRODUCTION

This specification has been compiled in accordance with SANS 50483.

1 SCOPE

The purpose of this specification is to detail the technical requirements to be met when acquiring Current-Carrying Connectors and Joints for LV ABC to be used on City Power's networks.

2 NORMATIVE REFERENCES

The following documents contain provisions that, through reference in the text, constitute requirements of this specification. At the time of publication, the editions indicated were valid. All standards and specifications are subject to revision, and parties to agreements based on this specification are encouraged to investigate the possibility of applying the most recent editions of the documents listed below.

SANS 50483-4 Test requirements for LV aerial bundled cable accessories Part 4 Connectors

SANS 50483-5 Test requirements for LV aerial bundled cable accessories Part 5: Electrical ageing Connectors

SANS 50483-6 Test requirements for LV aerial bundled cable accessories Part 6: Environmental testing

SANS 1507, Electrical cables with extruded solid dielectric insulation for fixed (300/500 V)

CP_TSSPEC_010, *LV ABC with Insulated Neutral Supporting Conductor*

CP_TSSPEC_019, *Split-Concentric Single-Phase Aerial Service Cable*

SANS 1418-I&II, *Aerial Bundled Conductor Systems (Parts I and II)*

3 DEFINITIONS AND ABBREVIATIONS

The definitions and abbreviations in the above documents shall apply to this specification.

4 REQUIREMENTS

4.1 General

Specific requirements for IPCs, crimped joints, lugs and end caps shall be as specified in SANS 50483.

4.2 Conductor sizes

IPCs, crimped joints, lugs and end caps are required for use with the following conductor sizes:

- a) LV ABC's with insulated neutral supporting conductor that have conductor cross-sectional areas of 25 mm², 50 mm², 54,6 mm² (insulated neutral support), 70 mm² (insulated neutral support), 95 mm² and 120 mm² as per CP_TSSPEC_010.

- b) Service connection cables that have cross-sectional areas of 10 mm² and 16 mm² as per CP_TSSPEC_019.
- c) Street lighting conductors that have cross-sectional areas in the range 1,5 mm² to 6 mm².

5 TESTS

5.1 Type test as specified in SANS 50483 shall apply to this specification.

5.1.1 Type test required for IPC

- a) Mechanical test
- b) Dielectrical voltage test and water tightness test
- c) Low temperature assembly test
- d) Environmental
- e) Electrical ageing test ageing

5.1.2 Type test required for Lugs

- a) Mechanical test
- b) Water tightness test
- c) Low temperature assembly test
- d) Environmental
- e) Electrical ageing

5.1.3 Type test required for joint

- a) Mechanical test
- b) Dielectrical voltage test and water tightness test
- c) Low temperature assembly test
- d) Environmental
- e) Electrical ageing
- f) Endurance test

6 MARKING, LABELLING AND PACKAGING

Marking, labelling and packaging shall comply with the requirements of SANS 50483.

7 DOCUMENTATION

Documentation that complies with the requirements of SANS 50483 shall be submitted in a catalogue format. In addition, relevant test certificates confirming compliance with the requirements of SANS 50483 shall be submitted.

8 TRAINING

8.1 A certified training course shall be offered to relevant City Power staff. The training shall include, the handling, storage and installation of IPCs, crimped joints, lugs and end caps.

8.2 The associated costs for the certified training course in 8.1 shall be given per person and shall be fixed for the period of the contract.

9 QUALITY ASSURANCE

A quality management system shall be set up in order to assure the quality of the current carrying connectors during design, development, production, installation and servicing. Guidance on the requirements for a quality management system may be found in the following standards: SANS 9000, SANS 9001, and SANS 9004. The details shall be subject to agreement between the purchaser and supplier

10 ENVIRONMENTAL MANAGEMENT

An environmental management plan shall be set up in order to assure the proper environmental management of current carrying connectors throughout its entire life cycle (i.e. during design, development, production, installation, operation and maintenance, decommissioning and disposal phases). Guidance on the requirements for an environmental management system may be found in ISO 14001 standards. The details shall be subject to agreement between City Power and supplier. This is to ensure that the asset created conforms to environmental standards and City Power SHER Policy

11 HEALTH AND SAFETY

A health and safety plan shall be set up in order to ensure proper management of the current carrying connectors and joints for LV ABC and compliance of the queuing system during installation, operation, maintenance, and decommissioning phases. Guidance on the requirements of a health and safety plan may be found in OHSAS 18001 standards. This is to ensure that the asset conforms to standard operating procedures and City Power SHERQ Policy. The details shall be subject to agreement between City Power and the Supplier.

Annex A – Bibliography

None

Annex B – Revision information

DATE	REV. NO.	NOTES
Jan 2003	0	First issue
June 2006	1	General editing
August 2009	2	General editing
August 2018	3	General editing Safety and health New workgroup

Annex C: ITEM 1: IPC 25-95/25-95 ABC MAIN – SAP 517

Schedule A: Purchaser's specific requirements

Schedule B: Guarantees and technical particulars of equipment offered

Item	Clause of CP_TSSPEC 20	Description	Schedule A	Schedule B
1		IPC manufacturing standard	SANS 50483	XXXX
2		ABC manufacturing standard	SANS 1418	XXXX
3		Service connection cable manufacturing standard	SANS 1507	XXXX
4	4	Types of IPCs	XXXX	XXXX
5		a) Main 25 to 95/25 to 95	XXXX	
6		quantity		
7		Shear-heads required	Yes	
8		Design torque of shear-heads	N.m 20 (max)	
9		IPC's to be waterproof?	Yes	
10		IPC supplied with end caps?	Yes	
11		Samples and design details required?	Yes	
12		Colour of IPC's	Black	
13	5.1.1	Type test certificates required for:	XXXX	XXXX
		a) Mechanical test	Yes	
		b) Dielectrical voltage test and water tightness test	Yes	
		c) Low temperature assembly test	Yes	
		d) Environmental	Yes	
		e) Electrical ageing test ageing	Yes	
14		Visual inspection and dimensions?	Yes	
15	6	Are the IPCs marked and packed as per SANS 50483?	Yes	

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

Tender Number: _____

Tenderer's Authorised Signatory: _____

Name in block letters

Signature

Full name of company: _____

ITEM 1: IPC 25-95/25-95 ABC MAIN – SAP 517

Deviation schedule

Any deviations offered to this specification shall be listed below with reasons for deviation. In addition, evidence shall be provided that the proposed deviation will at least be more cost-effective than that specified by City Power.

Item	Sub clause of CP_TSSPEC_020	Proposed deviation

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters Signature

Full name of company: _____

Annex C: ITEM 2: IPC 25-95/10-16 ABC SERVICES – SAP 518

Schedule A: Purchaser's specific requirements

Schedule B: Guarantees and technical particulars of equipment offered

Item	Sub clause of CP_TSSPEC_020	Description	Schedule A	Schedule B
1		IPC manufacturing standard	SANS 50483	XXXX
2		ABC manufacturing standard	SANS 1418	XXXX
3		Service connection cable manufacturing standard	SANS 1507	XXXX
4	4	Types of IPCs	XXXX	XXXX
5		a) Service connections 25-95/10-16 Range	XXXX	
6		quantity		
7		Shear-heads required	Yes	
8		Design torque of shear-heads N.m	20 (max)	
9		IPCs to be waterproof?	Yes	
10		IPC supplied with end caps?	Yes	
12		Samples and design details required?	Yes	
13		Colour of IPC's	Black	
14	5.1.1	Type test certificates required for:	XXXX	XXXX
		a) Mechanical test	Yes	
		b) Dielectrical voltage test and water tightness test	Yes	
		c) Low temperature assembly test	Yes	
		d) Environmental	Yes	
		e) Electrical ageing test ageing	Yes	
15		Visual inspection and dimensions?	Yes	
16	6	Are the IPCs marked and packed as per SANS 50483?	Yes	

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters Signature

Full name of company: _____

ITEM 2: IPC 25-95/10-16 ABC SERVICES – SAP 518

Deviation schedule

Any deviations offered to this specification shall be listed below with reasons for deviation. In addition, evidence shall be provided that the proposed deviation will at least be more cost-effective than that specified by City Power.

Item	Sub clause of CP_TSSPEC_020	Proposed deviation

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters
Signature

Full name of company: _____

Annex C: ITEM 3: IPC 25-95/1.5-6 ABC SL– SAP 519

Schedule A: Purchaser's specific requirements

Schedule B: Guarantees and technical particulars of equipment offered

Item	Sub clause of CP_TSSPEC_020	Description	Schedule A	Schedule B
1		IPC manufacturing standard	SANS 50483	XXXX
2		ABC manufacturing standard	SANS 1418	XXXX
3		Service connection cable manufacturing standard	SANS 1507	XXXX
4	4	Types of IPCs	XXXX	XXXX
5		a) Street lighting 25 to 95/1,5 to 6	XXXX	
6		quantity		
7		Shear-heads required	Yes	
8		Design torque of shear-heads	N.m 20 (max)	
9		IPCs to be waterproof?	Yes	
10		IPC supplied with end caps?	Yes	
11		Samples and design details required?	Yes	
12		Colour of IPC's	Black	
13	5.1.1	Type test certificates required for:	XXXX	XXXX
		a) Mechanical test	Yes	
		b) Dielectrical voltage test and water tightness test	Yes	
		c) Low temperature assembly test	Yes	
		d) Environmental	Yes	
		e) Electrical ageing test ageing	Yes	
14		Visual inspection and dimensions?	Yes	
15	6	Are the IPCs marked and packed as per SANS 50483?	Yes	

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters Signature

Full name of company: _____

ITEM 3: IPC 25-95/1.5-6 ABC SL – SAP 519

Deviation schedule

Any deviations offered to this specification shall be listed below with reasons for deviation. In addition, evidence shall be provided that the proposed deviation will at least be more cost-effective than that specified by City Power.

Item	Sub clause of CP_TSSPEC_020	Proposed deviation

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters Signature

Full name of company: _____

Annex C: ITEM 4: IPC 120/120 ABC MAIN – SAP 520

Schedule A: Purchaser's specific requirements

Schedule B: Guarantees and technical particulars of equipment offered

Item	Sub clause of CP_TSSPEC_020	Description	Schedule A	Schedule B
1		IPC manufacturing standard	SANS 50483	XXXX
2		ABC manufacturing standard	SANS 1418	XXXX
3		Service connection cable manufacturing standard	SANS 1507	XXXX
4	4	Types of IPCs	XXXX	XXXX
5		a) Main 120/120	XXXX	
6		quantity		
7		Shear-heads required	Yes	
8		Design torque of shear-heads	20 (max)	
9		IPC's to be waterproof?	Yes	
10		IPC supplied with end caps?	Yes	
11		Samples and design details required?	Yes	
12		Colour of IPC's	Black	
13	5.1.1	Type test certificates required for: a) Mechanical test b) Dielectrical voltage test and water tightness test c) Low temperature assembly test d) Environmental e) Electrical ageing test ageing	XXXX Yes Yes Yes Yes Yes	XXXX
14		Visual inspection and dimensions?	Yes	
15	6	Are the IPCs marked and packed as per SANS 50483?	Yes	

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters Signature

Full name of company: _____

ITEM 4: IPC 120/120 ABC MAIN – SAP 520

Deviation schedule

Any deviations offered to this specification shall be listed below with reasons for deviation. In addition, evidence shall be provided that the proposed deviation will at least be more cost-effective than that specified by City Power.

Item	Sub clause of CP_TSSPEC_020	Proposed deviation

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters
Signature

Full name of company: _____

Annex C: ITEM 5: IPC 120/10-16 ABC SERVICE – SAP 521

Schedule A: Purchaser's specific requirements

Schedule B: Guarantees and technical particulars of equipment offered

Item	Sub clause of CP_TSSPEC_020	Description	Schedule A	Schedule B
1		IPC manufacturing standard	SANS 50483	XXXX
2		ABC manufacturing standard	SANS 1418	XXXX
3		Service connection cable manufacturing standard	SANS 1507	XXXX
4	4	Types of IPCs	XXXX	XXXX
5		a) Service connections 120/10 to 16	Range	XXXX
6		quantity		
7		Shear-heads required	Yes	
8		Design torque of shear-heads	N.m	20 (max)
9		IPCs to be waterproof?	Yes	
10		IPC supplied with end caps?	Yes	
11		Samples and design details required?	Yes	
12		Colour of IPC's	Black	
13	5.1.1	Type test certificates required for:	XXXX	XXXX
		a) Mechanical test	Yes	
		b) Dielectrical voltage test and water tightness test	Yes	
		c) Low temperature assembly test	Yes	
		d) Environmental	Yes	
		e) Electrical ageing test ageing	Yes	
14		Visual inspection and dimensions?	Yes	
15	6	Are the IPCs marked and packed as per SANS 50483?	Yes	

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

Tender Number: _____

Tenderer's Authorised Signatory: _____

Name in block letters

Signature

Full name of company: _____

ITEM 5: IPC 120/10-16 ABC SERVICE – SAP 521

Deviation schedule

Any deviations offered to this specification shall be listed below with reasons for deviation. In addition, evidence shall be provided that the proposed deviation will at least be more cost-effective than that specified by City Power.

Item	Sub clause of CP_TSSPEC_020	Proposed deviation

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

Tender Number: _____

Tenderer's Authorised Signatory: _____

Name in block letters

Signature

Full name of company: _____

Annex C: ITEM 6: LUG BM INS 25 ABC – SAP 522

Schedule A: Purchaser's specific requirements

Schedule B: Guarantees and technical particulars of equipment offered

Item	Sub clause of CP_TSSPEC_020	Description	Schedule A	Schedule B
1		Lug manufacturing standard	SANS 50483	XXXX
2	4	Quantity of lugs – 25 mm ²		
3		Aluminium-copper bi-metallic lug required?	Yes	
4		Expected service life years	XXXX	
5		Samples and design details required?	Yes	
6		Is lug insulated?	Yes	
7		Insulating material	XXXX	
8		Colour of insulating material	Black	
9		Is the insulating material UV protected?	Yes	
10		Die set size use on a range of 25-95 mm ²	17,3	
11	5.1.2	Type of electrical compound used	XXXX	
12		Type test certificates required for: a) Mechanical test b) Water tightness test c) Low temperature assembly test d) Environmental e) Electrical ageing	XXXX Yes Yes Yes Yes Yes	XXXX
13	6	Visual inspection and dimensions	Yes	
14		Are the lugs marked and packed as per SANS 50483?	Yes	

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters Signature

Full name of company: _____

ITEM 6: LUG BM INS 25 ABC – SAP

Any deviations offered to this specification shall be listed below with reasons for deviation. In addition, evidence shall be provided that the proposed deviation will at least be more cost-effective than that specified by City Power.

Item	Sub clause of CP_SPEC_020	Proposed deviation

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

Tender Number: _____

Tenderer's Authorised Signatory: _____

Name in block letters

Signature

Full name of company: _____

Annex C: ITEM 7: LUG BM INS 50 ABC – SAP 523

Schedule A: Purchaser's specific requirements

Schedule B: Guarantees and technical particulars of equipment offered

Item	Sub clause of CP_TSSPEC_020	Description	Schedule A	Schedule B
1		Lug manufacturing standard	SANS 50483	XXXX
2		Quantity of lugs – 50 mm ²		
3		Aluminium-copper bi-metallic lug required?	Yes	
4		Expected service life years	XXXX	
5		Samples and design details required?	Yes	
6		Is lug insulated?	Yes	
7		Insulating material	XXXX	
8		Colour of insulating material	Black	
9		Is the insulating material UV protected?	Yes	
10		Die set size use on a range of 25-95 mm ²	17,3	
11	5.1.2	Type of electrical compound used	XXXX	
12		Type test certificates required for: a) Mechanical test b) Water tightness test c) Low temperature assembly test d) Environmental e) Electrical ageing	XXXX Yes Yes Yes Yes Yes	XXXX
13		Visual inspection and dimensions	Yes	
14	6	Are the lugs marked and packed as per SANS 50483?	Yes	

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters Signature

Full name of company: _____

ITEM 7: LUG BM INS 50 ABC – SAP 523

Deviation schedule

<p>Any deviations offered to this specification shall be listed below with reasons for deviation. In addition, evidence shall be provided that the proposed deviation will at least be more cost-effective than that specified by City Power.</p>		
Item	Sub clause of CP_TSSPEC_020	Proposed deviation

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters
Signature

Full name of company: _____

Annex C: ITEM 8: LUG BM INS 55 ABC – SAP 524

Schedule A: Purchaser's specific requirements
Schedule B: Guarantees and technical particulars of equipment offered

Item	Sub clause of CP_TSSPEC_020	Description	Schedule A	Schedule B
1		Lug manufacturing standard	SANS 50483	XXXX
2		Quantity of lugs – 55 mm ²		
3		Aluminium-copper bi-metallic lug required?	Yes	
4		Expected service life years	XXXX	
5		Samples and design details required?	Yes	
6		Is lug insulated?	Yes	
7		Insulating material	XXXX	
8		Colour of insulating material	Black	
9		Is the insulating material UV protected?	Yes	
10		Die set size use on a range of 25-95 mm ²	17,3	
11	5.1.2	Type of electrical compound used	XXXX	
12		Type test certificates required for: a) Mechanical test b) Water tightness test c) Low temperature assembly test d) Environmental e) Electrical ageing	XXXX Yes Yes Yes Yes Yes	XXXX
13		Visual inspection and dimensions	Yes	
14	6	Are the lugs marked and packed as per SANS 50483?	Yes	

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters Signature

Full name of company: _____

ITEM 8: LUG BM INS 55 ABC – SAP 524

Deviation schedule

<p>Any deviations offered to this specification shall be listed below with reasons for deviation. In addition, evidence shall be provided that the proposed deviation will at least be more cost-effective than that specified by City Power.</p>		
Item	Sub clause of CP_TSSPEC_020	Proposed deviation

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA [“To Be Advice”] will not be accepted

Tender Number: _____

Tenderer’s Authorised Signatory: _____
Name in block letters
Signature

Full name of company: _____

Annex C: ITEM 9: LUG BM INS 70 ABC – SAP 525

Schedule A: Purchaser's specific requirements

Schedule B: Guarantees and technical particulars of equipment offered

Item	Sub clause of CP_TSSPEC_020	Description	Schedule A	Schedule B
1		Lug manufacturing standard	SANS 50483	XXXX
2		Quantity of lugs – 70 mm ²		
3		Aluminium-copper bi-metallic lug required?	Yes	
4		Expected service life years	XXXX	
5		Samples and design details required?	Yes	
6		Is lug insulated?	Yes	
7		Insulating material	XXXX	
8		Colour of insulating material	Black	
9		Is the insulating material UV protected?	Yes	
10		Die set size use on a range of 25-95 mm ²	17,3	
11		Type of electrical compound used	XXXX	
12	5.1.2	Type test certificates required for: a) Mechanical test b) Water tightness test c) Low temperature assembly test d) Environmental e) Electrical ageing	XXXX Yes Yes Yes Yes Yes	XXXX
13		Visual inspection and dimensions	Yes	
14	6	Are the lugs marked and packed as per SANS 50483?	Yes	

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters Signature

Full name of company: _____

ITEM 9: LUG BM INS 70 ABC – SAP 525

Deviation schedule

Any deviations offered to this specification shall be listed below with reasons for deviation. In addition, evidence shall be provided that the proposed deviation will at least be more cost-effective than that specified by City Power.

Item	Sub clause of CP_TSSPEC_020	Proposed deviation

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters Signature

Full name of company: _____

Annex C: ITEM 10: LUG BM INS 95 ABC – SAP 526

Schedule A: Purchaser's specific requirements

Schedule B: Guarantees and technical particulars of equipment offered

Item	Sub clause of CP_TSSPEC_020	Description	Schedule A	Schedule B
1		Lug manufacturing standard	SANS 50483	XXXX
2		Quantity of lugs – 95 mm ²		
3		Aluminium-copper bi-metallic lug required?	Yes	
4		Expected service life years	XXXX	
5		Samples and design details required?	Yes	
6		Is lug insulated?	Yes	
7		Insulating material	XXXX	
8		Colour of insulating material	Black	
9		Is the insulating material UV protected?	Yes	
10		Die set size use on a range of 25-95 mm ²	17,3	
11		Type of electrical compound used	XXXX	
12	5.1.2	Type test certificates required for: a) Mechanical test b) Water tightness test c) Low temperature assembly test d) Environmental e) Electrical ageing	XXXX Yes Yes Yes Yes Yes	XXXX
13		Visual inspection and dimensions	Yes	
14	6	Are the lugs marked and packed as per SANS 50483?	Yes	

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters Signature

Full name of company: _____

ITEM 10: LUG BM INS 95 ABC – SAP 526

Deviation schedule

Any deviations offered to this specification shall be listed below with reasons for deviation. In addition, evidence shall be provided that the proposed deviation will at least be more cost-effective than that specified by City Power.

Item	Sub clause of CP_TSSPEC_020	Proposed deviation

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters Signature

Full name of company: _____

Annex C: ITEM 11: LUG BM INS 120 ABC – SAP 527

Schedule A: Purchaser's specific requirements

Schedule B: Guarantees and technical particulars of equipment offered

Item	Sub clause of CP_TSSPEC_020	Description	Schedule A	Schedule B
1		Lug manufacturing standard	SANS 50483	XXXX
2		Quantity of lugs – 120 mm ²		
3		Aluminium-copper bi-metallic lug required?	Yes	
4		Expected service life years	XXXX	
5		Samples and design details required?	Yes	
6		Is lug insulated?	Yes	
7		Insulating material	XXXX	
8		Colour of insulating material	Black	
9		Is the insulating material UV protected?	Yes	
10		Die set size required for 120 mm ² mm	21,5	
11		Type of electrical compound used	XXXX	
12	5.1.2	Type test certificates required for: a) Mechanical test b) Water tightness test c) Low temperature assembly test d) Environmental e) Electrical ageing	XXXX Yes Yes Yes Yes Yes	XXXX
13		a) Visual inspection and dimensions	Yes	
14	6	b) Are the lugs marked and packed as per SANS 50483?	Yes	

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters Signature

Full name of company: _____

ITEM 11: LUG BM INS 120 ABC – SAP 527

Deviation schedule

Any deviations offered to this specification shall be listed below with reasons for deviation. In addition, evidence shall be provided that the proposed deviation will at least be more cost-effective than that specified by City Power.

Item	Sub clause of SANS 50483	Proposed deviation

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters Signature

Full name of company: _____

Annex C: ITEM 12: JNT NT INS 25 ABC – SAP 528

Schedule A: Purchaser's specific requirements

Schedule B: Guarantees and technical particulars of equipment offered

Item	Sub clause of CP_TSSPEC_020	Description	Schedule A	Schedule B
1		Joint manufacturing standard	SANS 50483	XXXX
2		ABC manufacturing standard	SANS 1418	XXXX
3		Minimum breaking force of conductor kN	3,3	
4		Quantity of joints – 25 mm ²		
5		Expected service life years	XXXX	
6		Samples and design details required?	Yes	
7		Is joint insulated?	Yes	
8		Insulating material	XXXX	
9		Colour of insulating material	Black	
10		Is the insulating material UV protected?	Yes	
11		Solid barrier separating the barrel?	Yes	
12		Die set size use on a range of 25-95 mm ²	17,3	
13		Type of electrical compound used	XXXX	
14	5.1.3	Type test certificates required for: a) Mechanical test b) Dielectrical voltage test and water tightness test c) Low temperature assembly test d) Environmental e) Electrical ageing f) Endurance test	XXXX Yes Yes Yes Yes Yes Yes	XXXX
15		Visual inspection and dimensions	Yes	
17	6	Are the joints marked and packed as per SANS 50483?	Yes	

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters Signature

Full name of company: _____

ITEM 12: JNT NT INS 25 ABC – SAP 528

Deviation schedule

Any deviations offered to this specification shall be listed below with reasons for deviation. In addition, evidence shall be provided that the proposed deviation will at least be more cost-effective than that specified by City Power.

Item	Sub clause of CP_TSSPEC_020	Proposed deviation

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA [“To Be Advice”] will not be accepted

Tender Number: _____

Tenderer’s Authorised Signatory: _____
Name in block letters Signature

Full name of company: _____

Annex C: ITEM 13: JNT NT INS 50 ABC – SAP 529

Schedule A: Purchaser's specific requirements

Schedule B: Guarantees and technical particulars of equipment offered

Item	Sub clause of CP_TSSPEC_020	Description	Schedule A	Schedule B
1		Joint manufacturing standard	SANS 50483	XXXX
2		ABC manufacturing standard	SANS 1418	XXXX
3		Minimum breaking force of conductor kN	6,2	
4		Quantity of joints – 50 mm ²		
5		Expected service life years	XXXX	
6		Samples and design details required?	Yes	
7		Is joint insulated?	Yes	
8		Insulating material	XXXX	
9		Colour of insulating material	Black	
10		Is the insulating material UV protected?	Yes	
11		Solid barrier separating the barrel?	Yes	
12		Die set size use on a range of 25-95 mm ²	17,3	
13		Type of electrical compound used	XXXX	
14	5.1.3	Type test certificates required for: a) Mechanical test b) Dielectrical voltage test and water tightness test c) Low temperature assembly test d) Environmental e) Electrical ageing f) Endurance test	XXXX Yes Yes Yes Yes Yes Yes	XXXX
15		Visual inspection and dimensions	Yes	
17	6	Are the joints marked and packed as per SANS 50483?	Yes	

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

Tender Number: _____

Tenderer's Authorised Signatory: _____

Name in block letters

Signature

Full name of company: _____

ITEM 13: JNT NT INS 50 ABC – SAP 529

Deviation schedule

Any deviations offered to this specification shall be listed below with reasons for deviation. In addition, evidence shall be provided that the proposed deviation will at least be more cost-effective than that specified by City Power.

Item	Sub clause of CP_TSSPEC_020	Proposed deviation

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters Signature

Full name of company: _____

Annex C: ITEM 14: JNT NT INS 70-95 ABC – SAP 530

Schedule A: Purchaser's specific requirements

Schedule B: Guarantees and technical particulars of equipment offered

Item	Sub clause of CP_TSSPEC_020	Description	Schedule A	Schedule B
1		Joint manufacturing standard	SANS 50483	XXXX
2		ABC manufacturing standard	SANS 1418	XXXX
3		Minimum breaking force of conductors kN	8,9	
4		Quantity of joints: 70-95 mm ²		
5		Expected service life years	XXXX	
6		Samples and design details required?	Yes	
7		Is joint insulated?	Yes	
8		Insulating material	XXXX	
9		Colour of insulating material	Black	
10		Is the insulating material UV protected?	Yes	
11		Solid barrier separating the barrel?	Yes	
12		Die set size use on a range of 25-95 mm ²	17,3	
13		Type of electrical compound used	XXXX	
14	5.1.3	Type test certificates required for: a) Mechanical test b) Dielectrical voltage test and water tightness test c) Low temperature assembly test d) Environmental e) Electrical ageing f) Endurance test	XXXX Yes Yes Yes Yes Yes Yes Yes	XXXX
15		Visual inspection and dimensions	Yes	
17	6	Are the joints marked and packed as per SANS 50483?	Yes	

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

Tender Number: _____

Tenderer's Authorised Signatory: _____

Name in block letters Signature

Full name of company: _____

ITEM 14: JNT NT INS 70-95 ABC – SAP 530

Deviation schedule

Any deviations offered to this specification shall be listed below with reasons for deviation. In addition, evidence shall be provided that the proposed deviation will at least be more cost-effective than that specified by City Power.

Item	Sub clause of CP_TSSPEC_020	Proposed deviation

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters Signature

Full name of company: _____

Annex C: ITEM 15: JNT NT INS 95 ABC – SAP 531

Schedule A: Purchaser's specific requirements

Schedule B: Guarantees and technical particulars of equipment offered

Item	Sub clause of CP_TSSPEC_020	Description	Schedule A	Schedule B
1		Joint manufacturing standard	SANS 50483	XXXX
2		ABC manufacturing standard	SANS 1418	XXXX
3		Minimum breaking force of conductor kN	12,3	
4		Quantity of joints - 95 mm ²		
5		Expected service life years	XXXX	
6		Samples and design details required?	Yes	
7		Is joint insulated?	Yes	
8		Insulating material	XXXX	
9		Colour of insulating material	Black	
10		Is the insulating material UV protected?	Yes	
11		Solid barrier separating the barrel?	Yes	
12		Die set size use on a range of 25-95 mm ²	17,3	
13		Type of electrical compound used	XXXX	
14	5.1.3	Type test certificates required for: a) Mechanical test b) Dielectrical voltage test and water tightness test c) Low temperature assembly test d) Environmental e) Electrical ageing f) Endurance test	XXXX Yes Yes Yes Yes Yes Yes	XXXX
15		Visual inspection and dimensions	Yes	
17	6	Are the joints marked and packed as per SANS 50483?	Yes	

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters Signature

Full name of company: _____

ITEM 15: JNT NT INS 95 ABC – SAP 531

Deviation schedule

Any deviations offered to this specification shall be listed below with reasons for deviation. In addition, evidence shall be provided that the proposed deviation will at least be more cost-effective than that specified by City Power.

Item	Sub clause of CP_TSSPEC_020	Proposed deviation

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters Signature

Full name of company: _____

Annex C: ITEM 16: JNT NT INS 120 ABC – SAP 532

Schedule A: Purchaser's specific requirements

Schedule B: Guarantees and technical particulars of equipment offered

Item	Sub clause of CP_TSSPEC_020	Description	Schedule A	Schedule B
1		Joint manufacturing standard	SANS 50483	XXXX
2		ABC manufacturing standard	SANS 1418	XXXX
3		Minimum breaking force of conductor kN	15,6	
4		Quantity of joints – 120 mm ²		
5		Expected service life years	XXXX	
6		Samples and design details required?	Yes	
7		Is joint insulated?	Yes	
8		Insulating material	XXXX	
9		Colour of insulating material	Black	
10		Is the insulating material UV protected?	Yes	
11		Solid barrier separating the barrel?	Yes	
12		Die set size required for 120 mm ² mm	21,5	
13		Type of electrical compound used	XXXX	
14	5.1.3	Type test certificates required for:	XXXX	XXXX
		a) Mechanical test	Yes	
		b) Dielectrical voltage test and water tightness test	Yes	
		c) Low temperature assembly test	Yes	
		d) Environmental	Yes	
		e) Electrical ageing	Yes	
		f) Endurance test	Yes	
15		Visual inspection and dimensions	Yes	
17	6	Are the joints marked and packed as per SANS 50483?	Yes	

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters Signature

Full name of company: _____

ITEM 16: JNT NT INS 120 ABC – SAP 532

Deviation schedule

Any deviations offered to this specification shall be listed below with reasons for deviation. In addition, evidence shall be provided that the proposed deviation will at least be more cost-effective than that specified by City Power.

Item	Sub clause of CP_TSSPEC_020	Proposed deviation

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters Signature

Full name of company: _____

Annex C: ITEM 17: JNT FT NT INS 55 ABC – SAP 533

Schedule A: Purchaser's specific requirements

Schedule B: Guarantees and technical particulars of equipment offered

Item	Sub clause of CP_TSSPEC_020	Description	Schedule A	Schedule B
1		Joint manufacturing standard	SANS 50483	XXXX
2		ABC manufacturing standard	SANS 1418	XXXX
3		Minimum breaking force of conductor kN	16,6	
4		Quantity of joints – 55 mm ²		
5		Expected service life years	XXXX	
6		Samples and design details required?	Yes	
7		Are joint insulated?	Yes	
8		Insulating material	XXXX	
9		Colour of insulating material	Black	
10		Is the insulating material UV protected?	Yes	
11		Solid barrier separating the barrel?	Yes	
12		Die set size use on a range of 25-95 mm ²	17,3	
13		Type of electrical compound used	XXXX	
14	5.1.3	Type test certificates required for: a) Mechanical test b) Dielectrical voltage test and water tightness test c) Low temperature assembly test d) Environmental e) Electrical ageing f) Endurance test	XXXX Yes Yes Yes Yes Yes Yes	XXXX
15		Visual inspection and dimensions	Yes	
17	6	Are the joints marked and packed as per SANS 50483?	Yes	

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

Tender Number: _____

Tenderer's Authorised Signatory: _____

Name in block letters

Signature

Full name of company: _____

ITEM 17: JNT FT NT INS 55 ABC – SAP 533

Deviation schedule

Any deviations offered to this specification shall be listed below with reasons for deviation. In addition, evidence shall be provided that the proposed deviation will at least be more cost-effective than that specified by City Power.

Item	Sub clause of CP_TSSPEC_020	Proposed deviation

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters Signature

Full name of company: _____

Annex C: ITEM 18: JNT FT NT INS 70 ABC – SAP 534

Schedule A: Purchaser's specific requirements

Schedule B: Guarantees and technical particulars of equipment offered

Item	Sub clause of CP_TSSPEC_020	Description	Schedule A	Schedule B
1		Joint manufacturing standard	SANS 50483	XXXX
2		ABC manufacturing standard	SANS 1418	XXXX
3		Minimum breaking force of conductor kN	20,1	
4		Quantity of joints – 70 mm ²		
5		Expected service life years	XXXX	
6		Samples and design details required?	Yes	
7		Are joint insulated?	Yes	
8		Insulating material	XXXX	
9		Colour of insulating material	Black	
10		Is the insulating material UV protected?	Yes	
11		Solid barrier separating the barrel?	Yes	
12		Die set size use on a range of 25-95 mm ²	17,3	
13		Type of electrical compound used	XXXX	
14	5.1.3	Type test certificates required for: a) Mechanical test b) Dielectrical voltage test and water tightness test c) Low temperature assembly test d) Environmental e) Electrical ageing f) Endurance test	XXXX Yes Yes Yes Yes Yes Yes	XXXX
15		Visual inspection and dimensions	Yes	
17	6	Are the joints marked and packed as per SANS 50483?	Yes	

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters Signature

Full name of company: _____

ITEM 18: JNT FT NT INS 70 ABC – SAP 534

Deviation schedule

Any deviations offered to this specification shall be listed below with reasons for deviation. In addition, evidence shall be provided that the proposed deviation will at least be more cost-effective than that specified by City Power.

Item	Sub clause of CP_TSSPEC_020	Proposed deviation

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters Signature

Full name of company: _____

Annex C: ITEM 19: END CAP 25-95/120ABC – SAP 535/536

Schedule A: Purchaser's specific requirements

Schedule B: Guarantees and technical particulars of equipment offered

Item	Sub clause of CP_TSSPEC_020	Description	Schedule A	Schedule B
1		End caps manufacturing standard	SANS 50483	XXXX
2		Types of end caps:		
3		a) Designated range of end cap	mm ² 25 - 95	
4		Quantity of end caps		
5		b) Designated range of end cap	mm ² 120	
6		Quantity of end caps		
7		Expected service life	years XXXX	
8		Samples and design details required?	Yes	
9		Colour of end cap	Black	
10		Material of end cap		
11		Is the end cap UV protected?		
12		Is any special tool required for installation?	No	
13	5	Type test certificates required for:	XXXX	XXXX
		a) Waterproof test?	Yes	
		b) Accelerated weathering test?	Yes	
		c) Fire retardation test?	Yes	
14		Visual inspection and dimensions	Yes	
15	6	Are the end caps marked and packed as per SANS 50483?	Yes	

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

Tender Number: _____

Tenderer's Authorised Signatory: _____

Name in block letters

Signature

Full name of company: _____

ITEM 19: END CAP 25-95/120 ABC – SAP 535/120

Deviation schedule

Any deviations offered to this specification shall be listed below with reasons for deviation. In addition, evidence shall be provided that the proposed deviation will at least be more cost-effective than that specified by City Power.

Item	Sub clause of CP_TSSPEC_020	Proposed deviation

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters Signature

Full name of company: _____

Annex D – Stock Items

Material Group: NET-ACCS

Item	SAP No.	SAP Short Description	SAP Long Description
1	517	IPC 25-95/25-95 ABC MAIN	INSULATION PIERCING CONNECTOR, MAIN-TO-MAIN, 25-95/25-95 MM ² , BLACK, UV STABILIZED, FOR USE WITH LOW VOLTAGE AERIAL BUNDLED CONDUCTORS. ITEM SPECIFICATION NO. CP_TSSPEC_020
2	518	IPC 25-95/10-16 ABC SERVICE	INSULATION PIERCING CONNECTOR, MAIN-TO-SERVICE CONNECTION CABLE, 25-95/10-16 MM ² , BLACK, UV STABILIZED, FOR USE WITH LOW VOLTAGE AERIAL BUNDLED CONDUCTORS. ITEM SPECIFICATION NO. CP_TSSPEC_020
3	519	IPC 25-95/1.5-6 ABC SL	INSULATION PIERCING CONNECTOR, MAIN-TO-STREET LIGHTING CORE, 25-95/1.5-6 MM ² , BLACK, UV STABILIZED, FOR USE WITH LOW VOLTAGE AERIAL BUNDLED CONDUCTORS. ITEM SPECIFICATION NO. CP_TSSPEC_020
4	520	IPC 120/120 ABC MAIN	INSULATION PIERCING CONNECTOR, MAIN-TO-MAIN, 120/120 MM ² , BLACK, UV STABILIZED, FOR USE WITH LOW VOLTAGE AERIAL BUNDLED CONDUCTORS. ITEM SPECIFICATION NO. CP_TSSPEC_020
5	521	IPC 120/10-16 ABC SERVICE	INSULATION PIERCING CONNECTOR, MAIN-TO-SERVICE CONNECTION CABLE, 120/10-16 MM ² , BLACK, UV STABILIZED, FOR USE WITH LOW VOLTAGE AERIAL BUNDLED CONDUCTORS. ITEM SPECIFICATION NO. CP_TSSPEC_020
6	522	LUG BM INS 25 ABC	LUG, BI-METALLIC, INSULATED, BLACK, UV STABILIZED, FOR CONNECTING A 25 MM ² AERIAL BUNDLED CONDUCTOR ONTO AN M12 STUD. ITEM SPECIFICATION NO. CP_TSSPEC_020
7	523	LUG BM INS 50 ABC	LUG, BI-METALLIC, INSULATED, BLACK, UV STABILIZED, FOR CONNECTING A 50 MM ² AERIAL BUNDLED CONDUCTOR ONTO AN M12 STUD. ITEM SPECIFICATION NO. CP_TSSPEC_020
8	524	LUG BM INS 55 ABC	LUG, BI-METALLIC, INSULATED, BLACK, UV STABILIZED, FOR CONNECTING A 55 MM ² AERIAL BUNDLED CONDUCTOR ONTO AN M12 STUD. ITEM SPECIFICATION NO. CP_TSSPEC_020
9	525	LUG BM INS 70 ABC	LUG, BI-METALLIC, INSULATED, BLACK, UV STABILIZED, FOR CONNECTING A 70 MM ² AERIAL BUNDLED CONDUCTOR ONTO AN M12 STUD. ITEM SPECIFICATION NO. CP_TSSPEC_020
10	526	LUG BM INS 95 ABC	LUG, BI-METALLIC, INSULATED, BLACK, UV STABILIZED, FOR CONNECTING A 95 MM ² AERIAL BUNDLED CONDUCTOR ONTO AN M12 STUD. ITEM SPECIFICATION NO. CP_TSSPEC_020
11	527	LUG BM INS 120 ABC	LUG, BI-METALLIC, INSULATED, BLACK, UV STABILIZED, FOR CONNECTING A 120 MM ² AERIAL BUNDLED CONDUCTOR ONTO AN M12 STUD. ITEM SPECIFICATION NO. CP_TSSPEC_020
12	528	JNT NT INS 25 ABC	JOINT, NON-TENSION, INSULATED, BLACK, UV STABILIZED, FOR JOINTING 25 MM ² INSULATED PHASE CONDUCTORS IN AN AERIAL BUNDLED CONDUCTOR SYSTEM. ITEM SPECIFICATION NO. CP_TSSPEC_020
13	529	JNT NT INS 50 ABC	JOINT, NON-TENSION, INSULATED, BLACK, UV STABILIZED, FOR JOINTING 50 MM ² INSULATED PHASE CONDUCTORS IN AN AERIAL BUNDLED CONDUCTOR SYSTEM. ITEM SPECIFICATION NO. CP_TSSPEC_020

**SPECIFICATION FOR CURRENT-CARRYING
CONNECTORS AND JOINTS FOR LV ABC**

REFERENCE

REV

CP_TSSPEC_020

3

PAGE

48

OF

48

14	530	JNT NT INS 70-95 ABC	JOINT, NON-TENSION, INSULATED, BLACK, UV STABILIZED, FOR JOINTING 70 MM ² AND 95 MM ² INSULATED PHASE CONDUCTORS IN AN AERIAL BUNDLED CONDUCTOR SYSTEM. ITEM SPECIFICATION NO. CP_TSSPEC_020
15	531	JNT NT INS 95 ABC	JOINT, NON-TENSION, INSULATED, BLACK, UV STABILIZED, FOR JOINTING 95 MM ² INSULATED PHASE CONDUCTORS IN AN AERIAL BUNDLED CONDUCTOR SYSTEM. ITEM SPECIFICATION NO. CP_TSSPEC_020
16	532	JNT NT INS 120 ABC	JOINT, NON-TENSION, INSULATED, BLACK, UV STABILIZED, FOR JOINTING 120 MM ² INSULATED PHASE CONDUCTORS IN AN AERIAL BUNDLED CONDUCTOR SYSTEM. ITEM SPECIFICATION NO. CP_TSSPEC_020
17	533	JNT FT INS 55 ABC	JOINT, FULL-TENSION, INSULATED, BLACK, UV STABILIZED, FOR JOINTING 54.6 MM ² INSULATED NEUTRAL/EARTH CONDUCTORS IN AN AERIAL BUNDLED CONDUCTOR SYSTEM. ITEM SPECIFICATION NO. CP_TSSPEC_020
18	534	JNT FT INS 70 ABC	JOINT, FULL-TENSION, INSULATED, BLACK, UV STABILIZED, FOR JOINTING 70 MM ² INSULATED NEUTRAL/EARTH CONDUCTORS IN AN AERIAL BUNDLED CONDUCTOR SYSTEM. ITEM SPECIFICATION NO. CP_TSSPEC_020
19	535	END CAP 25-95 ABC	END CAP, BLACK, UV STABILIZED, FOR USE WITH AERIAL BUNDLED CONDUCTORS OF SIZES 25MM ² TO 95MM ² . ITEM SPECIFICATION NO. CP_TSSPEC_020
20	536	END CAP 120 ABC	END CAP, BLACK, UV STABILIZED, FOR USE WITH 120 MM ² AERIAL BUNDLED CONDUCTORS. ITEM SPECIFICATION NO. CP_TSSPEC_020