

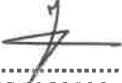


a world class African city



**TITLE** **SPECIFICATION FOR LV  
INSULATED WIRE POWER AND  
MULTI-CORE CABLES**

**REFERENCE** **CP\_TSSPEC\_002** **REV**  
**DATE:** **8** **OCTOBER 2021**  
**PAGE:** **1** **OF** **65**

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## FOREWORD

This standard was prepared by the following Work Group members:

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## INTRODUCTION

City Power has undertaken to utilize the SABS support structures that monitor compliance to specification and quality of manufacture of low voltage cables. City Power will therefore only purchase cable that bears the SANS 1507 mark of approval.

## 1 SCOPE

This specification covers City Power's requirements for low voltage insulated wire, power and control cables.

## 2 NORMATIVE REFERENCES

The following document contains provisions that, through reference in the text, constitute requirements of this specification. At the time of publication, the edition indicated was 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 edition of the document listed below.

SANS 10292, *Earthing of low-voltage (LV) distribution systems*

SANS 6284; *Test methods for cross-linked polyethylene (XLPE) insulated electric cables*

SANS 1507, *Electric cables with extruded solid dielectric insulation for fixed installations (300/500 V to 1 900/3 300 V).*

SANS 1574, *Electric cables – Flexible cords and flexible cables.*

VC 8075, *Compulsory specification for the safety of electric cables with extruded solid dielectric insulation for fixed installations (300/500 V to 1 900/3 300 V).*

## 3 DEFINITIONS AND ABBREVIATIONS

The definitions and abbreviations in SANS 1507 and SANS 1574 shall apply to this specification.

## 4 REQUIREMENTS

### 4.1 General

As per the compulsory specification VC 8075 for low voltage cable, all low voltage cables shall comply with SANS 1507. Low voltage flexible cables (SAP number 1511) shall comply with SANS 1574.

Item 5068 and 5055 shall not comply with any SANS standard, but shall be rated at 11 kV and shall be designated "Danger unscreened 11 kV PVC jumpers".

**4.2 Equivalents: Copper vs. Aluminum Cables****Table 1: 3/4C XLPE Insulated PVC bedded, SWA PVC Sheathed 600/1000 V)**

<b>COPPER</b>	<b>CURRENT RATING</b>			<b>Volt drop(3 <math>\phi</math>)</b>	<b>ALUMINIUM</b>	<b>CURRENT RATING</b>			<b>Volt drop(3 <math>\phi</math>)</b>
<b>Cable size (mm<sup>2</sup>)</b>	<b>Ground (A)</b>	<b>Duct (A)</b>	<b>Air (A)</b>		<b>Cable size (mm<sup>2</sup>)</b>	<b>Ground (A)</b>	<b>Duct (A)</b>	<b>Air (A)</b>	
<b>16</b>	94	110	76	2.546	<b>25</b>	115	92	108	1.813
<b>25</b>	123	96	110	1.515	<b>35</b>	129	104	119	1.342
<b>35</b>	148	116	135	1.097	<b>50</b>	158	130	151	0.933
<b>50</b>	177	138	163	0.817	<b>70</b>	192	157	186	0.681
<b>70</b>	216	171	207	0.576	<b>95</b>	219	179	216	0.545
<b>95</b>	258	302	209	0.448	<b>120</b>	278	229	287	0.369
<b>120</b>	293	344	238	0.365	<b>150</b>	324	268	342	0.296
<b>150</b>	329	387	268	0.307	<b>185</b>	324	268	342	0.296
<b>185</b>	371	435	302	0.260	<b>240</b>	392	325	438	0.309

**Copper 1C vs Stranded Aluminum 1C Armoured XLPE insulated PVC bedded, SWA PVC Sheathed 600/1000 V)**

**Table 2: 1C XLPE Insulated PVC bedded, SWA PVC Sheathed (600/1000 V)**

COPPER	CURRENT RATING			Volt drop(3φ)	ALUMINIUM	CURRENT RATING			Volt drop(3φ)
Cable size (mm <sup>2</sup> )	Ground (A)	Duct (A)	Air (A)		Cable size (mm <sup>2</sup> )	Ground (A)	Duct (A)	Air (A)	
<b>25</b>	127	111	112	1.52	<b>35</b>	150	116	145	1.93
<b>35</b>	153	132	141	1.10	<b>50</b>	192	163	176	1.43
<b>50</b>	180	155	172	0.82	<b>70</b>	238	202	220	0.99
<b>70</b>	221	190	223	0.58	<b>95</b>	292	249	274	0.72
<b>95</b>	265	226	273	0.43	<b>120</b>	329	279	313	0.58
<b>120</b>	301	256	318	0.36	<b>150</b>	364	310	348	0.48
<b>150</b>	338	287	369	0.30	<b>185</b>	412	350	397	0.39
<b>185</b>	381	323	424	0.26	<b>240</b>	487	414	476	0.31
<b>240</b>	442	372	504	0.22	<b>300</b>	555	472	548	0.26
<b>300</b>	499	419	584	0.20	<b>400</b>	560	476	560	0.21
<b>400</b>	565	472	679	0.18	<b>500</b>	572	486	579	0.19
<b>500</b>	634	532	778	0.17	<b>630</b>	582	495	597	0.17
<b>630</b>	718	603	892	0.15	<b>800</b>	588	500	611	0.15

#### **4.3 Rated voltages**

- 4.3.1 The rated voltage of low voltage insulated wire shall be 600/1000 V
- 4.3.2 The rated voltage of low voltage power and control cables, and flexible cable, shall be 600/1000 V.
- 4.3.3 The rated voltage of item 5068 and 5055 shall be 6,35/11 kV.

#### **4.4 Materials and construction**

##### **4.4.1 Conductors**

Conductors shall be compacted stranded annealed copper for cable sizes 2.5 mm<sup>2</sup> up to 16mm<sup>2</sup> and stranded Aluminium for cable sizes 25mm<sup>2</sup> and above

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**4.4.2 Insulation material**

Insulating material shall be flame retardant PVC type D2 for cable sizes

*NOTE: As insulated wires are unarmoured they shall not be laid underground. However, they are used in overhead applications where they are exposed to solar radiation and therefore the insulation should be UV resistant.*

**4.4.3 Core identification**

Core identification of insulated wires and flexible cable shall be as indicated in table 3:

**Table 3 – Core identification for insulated wires and flexible cables**

<b>Colour(s) of wires</b>	<b>Wire sizes (mm<sup>2</sup>)</b>	<b>Application</b>
Red	2.5 & 16 95 & 285	Metering & LV service connections MV cable leads
Yellow	2.5 & 16 120	Metering & LV service connections LV cable leads for MCCB's in MSS
Blue	2.5 & 16	Metering & LV service connections
Black	2.5 & 16 50	Metering & LV service connections LV overhead distribution
Green & Yellow	2.5 & 16 70	Metering & LV service connections Earthing

Core identification of power cables shall be as indicated in table 4:

**Table 4 – Core identification for power cables**

<b>Number of phase cores</b>	<b>Colour(s) of phase cores</b>	<b>Colour of neutral core</b>	<b>Sizes of Cores (mm<sup>2</sup>)</b>	<b>Application</b>
1	Red	Black	2.5, 4 & 16	Protection & single phase LV service connections
3	Red, yellow and blue	Black	2.5, 4 & 16	Protection & three phase LV service connections
3	Red, yellow and blue	Black	25, 35, 50, 70, 120, 150 & 185	Distribution networks & special low voltage LV service connections

*NOTE: City Power applies a TN-C-S earthing system as per SANS 10292, therefore the neutral conductor is a combined protective neutral earth conductor. Only armoured power cable shall be laid in the ground.*

Core identification of multi-core control cables (with more than five cores) shall be as indicated in table 5:

**Table 5 – Core identification for multi-core control cables**

<b>Number of cores</b>	<b>Colour(s) of phase cores</b>	<b>Sizes of Cores (mm<sup>2</sup>)</b>	<b>Application</b>
12	Black with white numbering	2.5	Metering systems and panel interconnection wiring

*NOTE: Multi-core control cables shall be numbered numerically from number 1 to the total number of cores.*

#### **4.4.4 Bedding under armoring**

Cables shall have black PVC type B bedding.

#### **4.4.5 Armor**

Armoured cables shall have galvanized steel wire armour.

#### **4.4.6 Outer sheath**

Cables shall have a black PVC type S2 outer sheath unless otherwise stated in the description.

### **5 PACKAGING AND MARKING**

#### **5.1 Packaging**

- 5.1.1 Insulated wires shall be supplied in coil lengths of 100 m.
- 5.1.2 Power cables smaller than 16 mm<sup>2</sup> shall be supplied in drum lengths of 500 m.
- 5.1.3 Power cables greater than 16 mm<sup>2</sup> shall be supplied in drum lengths of 300 m.
- 5.1.4 Multi-core control cables shall be supplied in drum lengths of 500 m.

#### **5.2 Marking**

Cables shall be legibly marked in accordance with the requirements of SANS 1507, but the marking shall include the specification number to which the cable has been manufactured, the conductor size in mm<sup>2</sup> and material i.e. copper (Cu). A typical legend would be:

XXXXXXXXX CABLES 2000 600/1000 V 16 MM SQ Cu SANS 1507.

In addition, all cables with a conductor cross-sectional area of 120 mm<sup>2</sup> and greater shall be marked with the letters "CPJ" to identify the cable as property of City Power.

The cable shall also bear the SANS 1507 mark of approval.

The cable shall be sequentially marked at one metre intervals with the legend 000 m, 001 m etc. starting with 000 m at the barrel of the drum and finishing with the number indicating the length of cable on the drum at the outer end of the cable. The error in the length marking shall be less than 1 %.

The cable shall have the property of reduced flame propagation and shall therefore have a red stripe longitudinally along the outer sheath.

## **6 DOCUMENTATION**

A technical product catalogue that gives the following information shall be provided for the full range of cables manufactured in accordance with SANS 1507:

### **6.1 Cable dimensional data:**

- 6.1.1 Diameter over conductor;
- 6.1.2 Diameter over insulation;
- 6.1.3 Diameter over bedding;
- 6.1.4 Diameter over armor wires (if applicable); and
- 6.1.5 Diameter over sheath.

### **6.2 Maximum sustained current rating in ground, air and ducts.**

The standard installation conditions assumed shall be stated.

- 6.2.1 Short-circuit ratings.
- 6.2.2 Cable mass (kg/m).
- 6.2.3 Gross mass per standard drum length (kg).
- 6.2.4 The 50 Hz a.c. resistance at maximum sustained conductor operating temperature (ohm/km).
- 6.2.5 Reactance per phase (ohm/km).
- 6.2.6 Capacitance per phase (nF/km).
- 6.2.7 Zero sequence impedance and capacitance per phase at maximum sustained conductor operating temperature (ohm/km).

*NOTE: The sequence impedances need only be provided for the range of cables required with an enquiry.*

## **7 TESTS**

### **7.1 Type Test**

- 7.1.1 The type test report shall clearly identify the cables and accessories in accordance with SANS 1507-4.
- 7.1.2 The following type tests shall be performed;
  - a) Bedding test
  - b) Sheath test

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c) Finished cable test

- Fire propagation test
- Smoke emission test
- Compatibility test

## 7.2 Factory Acceptance Test (FAT)

Factory Acceptance Test (FAT) shall be carried out as per SANS 1507, with the presence of City Power Personnel before the cable is released from the manufacturer.

## 7.3 Site Acceptance Test (SAT)

- 7.3.1 On-site tests after installation shall be carried out as per SANS 1507
- 7.3.2 DC voltage test on the outer sheath
- 7.3.3 AC voltage withstand test of the insulation
- 7.3.4 Partial discharge (PD) measurements on site

## 8 QUALITY MANAGEMENT

A quality management system shall be set up in order to assure the quality during manufacture, installation, removal, transportation and disposal of LV Insulated Wire Power and Multi-Core Control Cables. Guidance on the requirements for a quality management system may be found in the following standards: ISO 9001:2015. The details shall be subject to agreement between the purchaser and supplier.

## 9 ENVIRONMENTAL MANAGEMENT

An environmental management plan shall be set up in order to ensure the proper environmental management and compliance is adhered to during manufacture, installation, removal, transportation and disposal of LV Insulated Wire Power and Multi-Core Control Cables. Guidance on the requirements for an environmental management system shall be found in ISO 14001:2015 standards. The details shall be subject to agreement between City Power and the Supplier. This is to ensure that the asset created conforms to environmental standards and City Power SHERQ Policy.

## 10 HEALTH AND SAFETY (OHS) MANAGEMENT

A health and safety plan shall be set up in order to ensure proper management and compliance during manufacture, installation, removal, transportation and disposal of LV Insulated Wire Power and Multi-Core Control Cables. Guidance on the requirements of a health and safety plan shall be found in OHSAS 18001:2007/ ISO 45001:2018 standards. The details shall be subject to agreement between City Power and the Supplier.

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## **ANNEXURE A - BIBLIOGRAPHY**

SCSSCABA1: 2000, Eskom specification for LV power and control cables with rated voltages 600/1000V.

## **ANNEXURE B - REVISION INFORMATION**

<b>DATE</b>	<b>REV. NO.</b>	<b>NOTES</b>
December 2002	0	First issue.
July 2003	1	4.3.3.2 & ANNEXURE D Add 185 x 4 core SAP number 5082
August 2003	2	Add complete technical schedules.
August 2005	3	Added 35 mm <sup>2</sup> PVC insulated copper wire Added 70 mm <sup>2</sup> PVC insulated copper wire Added 70 mm <sup>2</sup> bare copper wire Added 185 mm <sup>2</sup> 11 kV PVC insulated copper wire Added 2,5 mm <sup>2</sup> grey PVC insulated copper wire General editing Update of technical schedules
September 2006	4	Added 95 mm <sup>2</sup> flexible cable Added reference to SANS 1574 General editing Updated technical schedules Amended SAP codes in Annexure D
February 2008	5	Added 70 mm <sup>2</sup> MV lead Changed references to "jumpers" in table 1 to " MV cable leads" and "LV cable leads" respectively Addition of section 7 – Environmental Management General editing Updated technical schedules Amended SAP codes in Annexure D
June 2016	6	Removed items 414, 415, 416, 417, 1502, 1513, 1502, 5039, 5055, 5068, 5069 Updated technical schedules Annealed copper for cable sizes 2.5 mm <sup>2</sup> up to 16mm <sup>2</sup> Stranded Aluminium for cable sizes 25mm <sup>2</sup> and above

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September 2018 7 Amended clause8 and added Factory Acceptance test and Site Acceptance test.  
General Editing

**October 2021 8 Alignment of Annexure D with the SAP Master General Editing**

**ANNEXURE C**

**TECHNICAL SCHEDULES A & B: SAP No. 1722  
CAB LV PVC 2,5 1CU RED**

**Schedule A: Purchaser's specific requirements**

**Schedule B: Guarantees and technical particulars of equipment offered**

<b>Item</b>	<b>Sub-clause of CP_TSSPEC_002</b>	<b>Description</b>	<b>Schedule A</b>	<b>Schedule B</b>
1		Manufacturer's name	Required	
2		Country of Origin	Required	
3	7.2	Symmetrical fault level for power cables only	kA	N/A
4	7.2	Earth fault level for power cables only	kA	N/A
5	4.3.3	Conductor size	mm <sup>2</sup>	2,5
6	4.3.3	Type of LV cable (Insulated wire, power or multi-core control)		Insulated wire
7	4.3.3	Number of cores		1
8	4.4.2	Marking requirements		Required
9	4.5	Technical Catalogue to be provided with tender documentation		Required
10	5	Certified copy of type test to be provided with tender documentation		SANS 1507
11		Annual estimated length required	m	

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

Tender Number: \_\_\_\_\_

Tenderer's Authorized Signatory: \_\_\_\_\_

Name in block letters

Signature

Full name of company: \_\_\_\_\_

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**DEVIATION SCHEDULE: SAP No. 1722  
CAB LV PVC 2,5 1CU RED**

**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.**

<b>Item No.</b>	<b>Sub-clause of CP_TSSPEC_002</b>	<b>Proposed deviation</b>

**Note: Ticks, Cross [V], 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: \_\_\_\_\_

**TECHNICAL SCHEDULES A & B: SAP No. 1521  
CAB LV PVC 2,5 1CU YELLOW**

**Schedule A: Purchaser's specific requirements**

**Schedule B: Guarantees and technical particulars of equipment offered**

<b>Item</b>	<b>Sub-clause of CP_TSSPEC_002</b>	<b>Description</b>	<b>Schedule A</b>	<b>Schedule B</b>
1		Manufacturer's name	Required	
2		Country of Origin	Required	
3	7.2	Symmetrical fault level for power cables only	kA	N/A
4	7.2	Earth fault level for power cables only	kA	N/A
5	4.3.3	Conductor size	mm <sup>2</sup>	2,5
6	4.3.3	Type of LV cable (Insulated wire, power or multi-core control)		Insulated wire
7	4.3.3	Number of cores		1
8	4.4.2	Marking requirements		Required
9	4.5	Technical Catalogue to be provided with tender documentation		Required
10	5	Certified copy of type test to be provided with tender documentation		SANS 1507
11		Annual estimated length required	m	

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

Tender Number: \_\_\_\_\_

Tenderer's Authorised Signatory: \_\_\_\_\_

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Signature

Full name of company: \_\_\_\_\_

**DEVIATION SCHEDULE: SAP No. 1521**  
**CAB LV PVC 2,5 1CU YELLOW**

**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.**

<b>Item No.</b>	<b>Sub-clause of CP_TSSPEC_002</b>	<b>Proposed deviation</b>

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

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**TECHNICAL SCHEDULES A & B: SAP No. 1724  
CAB LV PVC 2,5 1CU BLUE**

**Schedule A: Purchaser's specific requirements**

**Schedule B: Guarantees and technical particulars of equipment offered**

<b>Item</b>	<b>Sub-clause of CP_TSSPEC_002</b>	<b>Description</b>	<b>Schedule A</b>	<b>Schedule B</b>
1		Manufacturer's name	Required	
2		Country of Origin	Required	
3	7.2	Symmetrical fault level for power cables only	kA	N/A
4	7.2	Earth fault level for power cables only	kA	N/A
5	4.3.3	Conductor size	mm <sup>2</sup>	2,5
6	4.3.3	Type of LV cable (Insulated wire, power or multi-core control)		Insulated wire
7	4.3.3	Number of cores		1
8	4.4.2	Marking requirements		Required
9	4.5	Technical Catalogue to be provided with tender documentation		Required
10	5	Certified copy of type test to be provided with tender documentation		SANS 1507
11		Annual estimated length required	m	

**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: \_\_\_\_\_

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**DEVIATION SCHEDULE: SAP No. 1724**  
**CAB LV PVC 2,5 1CU BLUE**

**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.**

<b>Item No.</b>	<b>Sub-clause of CP_TSSPEC_002</b>	<b>Proposed deviation</b>

**Note: Ticks, Cross [V, 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: \_\_\_\_\_

**TECHNICAL SCHEDULES A & B: SAP No. 1723  
CAB LV PVC 2,5 1CU BLACK**

**Schedule A: Purchaser's specific requirements**

**Schedule B: Guarantees and technical particulars of equipment offered**

<b>Item</b>	<b>Sub-clause of CP_TSSPEC_002</b>	<b>Description</b>	<b>Schedule A</b>	<b>Schedule B</b>
1		Manufacturer's name	Required	
2		Country of Origin	Required	
3	7.2	Symmetrical fault level for power cables only	kA	N/A
4	7.2	Earth fault level for power cables only	kA	N/A
5	4.3.3	Conductor size	mm <sup>2</sup>	2,5
6	4.3.3	Type of LV cable (Insulated wire, power or multi-core control)		Insulated wire
7	4.3.3	Number of cores		1
8	4.4.2	Marking requirements		Required
9	4.5	Technical Catalogue to be provided with tender documentation		Required
10	5	Certified copy of type test to be provided with tender documentation		SANS 1507
11		Annual estimated length required	m	

**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: \_\_\_\_\_

**SPECIFICATION FOR LV INSULATED WIRE POWER**   **REFERENCE**   **REV**  
**AND MULTI-CORE CONTROL CABLES**   **CP\_TSSPEC\_002**   **8**  
**PAGE**   **21**   **OF**   **65**

**DEVIATION SCHEDULE: SAP No. 1723**  
**CAB LV PVC 2,5 1CU BLACK**

**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.**

<b>Item No.</b>	<b>Sub-clause of CP_TSSPEC_002</b>	<b>Proposed deviation</b>

**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: \_\_\_\_\_

**SPECIFICATION FOR LV INSULATED WIRE POWER  
AND MULTI-CORE CONTROL CABLES**

**REFERENCE**

**REV**

**CP\_TSSPEC\_002**

**8**

**PAGE**

**22 OF 65**

**TECHNICAL SCHEDULES A & B: SAP No. 1725  
CAB LV PVC 2,5 1CU YELLOW & GREEN**

**Schedule A: Purchaser's specific requirements**

**Schedule B: Guarantees and technical particulars of equipment offered**

<b>Item</b>	<b>Sub-clause of CP_TSSPEC_002</b>	<b>Description</b>	<b>Schedule A</b>	<b>Schedule B</b>
1		Manufacturer's name	Required	
2		Country of Origin	Required	
3	7.2	Symmetrical fault level for power cables only	kA	N/A
4	7.2	Earth fault level for power cables only	kA	N/A
5	4.3.3	Conductor size	mm <sup>2</sup>	2,5
6	4.3.3	Type of LV cable (Insulated wire, power or multi-core control)		Insulated wire
7	4.3.3	Number of cores		1
8	4.4.2	Marking requirements		Required
9	4.5	Technical Catalogue to be provided with tender documentation		Required
10	5	Certified copy of type test to be provided with tender documentation		SANS 1507
11		Annual estimated length required	m	

**Note: Ticks, Cross [✓], 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: \_\_\_\_\_

**SPECIFICATION FOR LV INSULATED WIRE POWER AND MULTI-CORE CONTROL CABLES**      **REFERENCE**      **REV**  
**CP\_TSSPEC\_002**      **8**  
**PAGE**      **23**      **OF**      **65**

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**DEVIATION SCHEDULE: SAP No. 1725**  
**CAB LV PVC 2,5 1CU YELLOW & GREEN**

**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.**

<b>Item No.</b>	<b>Sub-clause of CP_TSSPEC_002</b>	<b>Proposed deviation</b>

**Note: Ticks, Cross [V, 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: \_\_\_\_\_

**SPECIFICATION FOR LV INSULATED WIRE POWER  
AND MULTI-CORE CONTROL CABLES**

**REFERENCE**

**REV**

**CP\_TSSPEC\_002**

**8**

**PAGE**

**24 OF 65**

**TECHNICAL SCHEDULES A & B: SAP No. 2972  
CAB LV 70 1CU BARE COPPER**

**Schedule A: Purchaser's specific requirements**

**Schedule B: Guarantees and technical particulars of equipment offered**

<b>Item</b>	<b>Sub-clause of CP_TSSPEC_002</b>	<b>Description</b>	<b>Schedule A</b>	<b>Schedule B</b>
1		Manufacturer's name	Required	
2		Country of Origin	Required	
3	7.2	Symmetrical fault level for power cables only	kA	N/A
4	7.2	Earth fault level for power cables only	kA	N/A
5	4.3.3	Conductor size	mm <sup>2</sup>	70
6	4.3.3	Type of LV cable (Insulated wire, power or multi-core control)		Insulated wire
7	4.3.3	Number of cores		1
8	4.4.2	Marking requirements		Required
9	4.5	Technical Catalogue to be provided with tender documentation		Required
10	5	Certified copy of type test to be provided with tender documentation		SANS 1507
11		Annual estimated length required	m	

**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: \_\_\_\_\_

**SPECIFICATION FOR LV INSULATED WIRE POWER  
AND MULTI-CORE CONTROL CABLES**

**REFERENCE**

**REV**

**CP\_TSSPEC\_002**

**8**

**PAGE**

**25**

**OF 65**

**DEVIATION SCHEDULE: SAP No. 2972**

**CAB LV 70 1CU BARE COPPER**

**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.**

<b>Item No.</b>	<b>Sub-clause of CP_TSSPEC_002</b>	<b>Proposed deviation</b>

**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: \_\_\_\_\_

CAB LV 70 1CU BARE COPPER

**TECHNICAL SCHEDULES A & B: SAP No. 3923  
CAB LV XLPE 25 1C AL RED**

**Schedule A: Purchaser's specific requirements**

**Schedule B: Guarantees and technical particulars of equipment offered**

Item	Sub-clause of CP_TSSPEC_002	Description	Schedule A	Schedule B
1		Manufacturer's name	Required	
2		Country of Origin	Required	
3	7.2	Symmetrical fault level for power cables only	kA	N/A
4	7.2	Earth fault level for power cables only	kA	N/A
5	4.3.3	Conductor size	mm <sup>2</sup>	25
6	4.3.3	Type of LV cable (Insulated wire, power or multi-core control)		Insulated wire
7	4.3.3	Number of cores		1
8	4.4.2	Marking requirements		Required
9	4.5	Technical Catalogue to be provided with tender documentation		Required
10	5	Certified copy of type test to be provided with tender documentation		SANS 1507
11		Annual estimated length required	m	

**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: \_\_\_\_\_

**SPECIFICATION FOR LV INSULATED WIRE POWER AND MULTI-CORE CONTROL CABLES**      **REFERENCE**      **REV**  
**CP\_TSSPEC\_002**      **8**  
**PAGE**      **27**      **OF**      **65**

**DEVIATION SCHEDULE: SAP No. 3923**  
**CAB LV XLPE 25 1C AL RED**

**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.**

<b>Item No.</b>	<b>Sub-clause of CP_TSSPEC_002</b>	<b>Proposed deviation</b>

**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: \_\_\_\_\_

**TECHNICAL SCHEDULES A & B: SAP No. 3924  
CAB LV XLPE 25 1C AL YELLOW**

**Schedule A: Purchaser's specific requirements**

**Schedule B: Guarantees and technical particulars of equipment offered**

<b>Item</b>	<b>Sub-clause of CP_TSSPEC_002</b>	<b>Description</b>	<b>Schedule A</b>	<b>Schedule B</b>
1		Manufacturer's name	Required	
2		Country of Origin	XXXXXX	
3	7.2	Symmetrical fault level for power cables only	kA	N/A
4	7.2	Earth fault level for power cables only	kA	N/A
5	4.3.3	Conductor size	mm <sup>2</sup>	25
6	4.3.3	Type of LV cable (Insulated wire, power or multi-core control)		Insulated wire
7	4.3.3	Number of cores		1
8	4.4.2	Marking requirements		Required
9	4.5	Technical Catalogue to be provided with tender documentation		Required
10	5	Certified copy of type test to be provided with tender documentation		SANS 1507
11		Annual estimated length required	m	

**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: \_\_\_\_\_

**DEVIATION SCHEDULE: SAP No. 3924**  
**CAB LV XLPE 25 1C AL YELLOW**

**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.**

<b>Item No.</b>	<b>Sub-clause of CP_TSSPEC_002</b>	<b>Proposed deviation</b>

**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: \_\_\_\_\_

**SPECIFICATION FOR LV INSULATED WIRE POWER  
AND MULTI-CORE CONTROL CABLES**

**REFERENCE**

**REV**

**CP\_TSSPEC\_002**

**8**

**PAGE**

**30 OF 65**

**TECHNICAL SCHEDULES A & B: SAP No. 3925  
CAB LV XLPE 25 1C AL BLUE**

**Schedule A: Purchaser's specific requirements**

**Schedule B: Guarantees and technical particulars of equipment offered**

<b>Item</b>	<b>Sub-clause of CP_TSSPEC_002</b>	<b>Description</b>	<b>Schedule A</b>	<b>Schedule B</b>
1		Manufacturer's name	Required	
2		Country of Origin	Required	
3	7.2	Symmetrical fault level for power cables only	kA	N/A
4	7.2	Earth fault level for power cables only	kA	N/A
5	4.3.3	Conductor size	mm <sup>2</sup>	25
6	4.3.3	Type of LV cable (Insulated wire, power or multi-core control)		Insulated wire
7	4.3.3	Number of cores		1
8	4.4.2	Marking requirements		Required
9	4.5	Technical Catalogue to be provided with tender documentation		Required
10	5	Certified copy of type test to be provided with tender documentation		SANS 1507
11		Annual estimated length required	m	

**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: \_\_\_\_\_

**DEVIATION SCHEDULE: SAP No. 3926**  
**CAB LV XLPE 25 1C AL BLACK**

**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 No.	Sub-clause of CP_TSSPEC_002	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:** \_\_\_\_\_

**TECHNICAL SCHEDULES A & B: SAP No. 3926  
CAB LV XLPE 25 1C AL YELLOW & GREEN**

**Schedule A: Purchaser's specific requirements**

**Schedule B: Guarantees and technical particulars of equipment offered**

<b>Item</b>	<b>Sub-clause of CP_TSSPEC_002</b>	<b>Description</b>	<b>Schedule A</b>	<b>Schedule B</b>
1		Manufacturer's name	Required	
2		Country of Origin	Required	
3	7.2	Symmetrical fault level for power cables only	kA	N/A
4	7.2	Earth fault level for power cables only	kA	N/A
5	4.3.3	Conductor size	mm <sup>2</sup>	25
6	4.3.3	Type of LV cable (Insulated wire, power or multi-core control)		Insulated wire
7	4.3.3	Number of cores		1
8	4.4.2	Marking requirements		Required
9	4.5	Technical Catalogue to be provided with tender documentation		Required
10	5	Certified copy of type test to be provided with tender documentation		SANS 1507
11		Annual estimated length required	m	

**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: \_\_\_\_\_

**SPECIFICATION FOR LV INSULATED WIRE POWER AND MULTI-CORE CONTROL CABLES**      **REFERENCE**      **REV**  
**CP\_TSSPEC\_002**      **8**  
**PAGE**      **35**      **OF**      **65**

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**DEVIATION SCHEDULE: SAP No. 3927**  
**CAB LV XLPE 25 1C AL YELLOW & GREEN**

**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.**

<b>Item No.</b>	<b>Sub-clause of CP_TSSPEC_002</b>	<b>Proposed deviation</b>

**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: \_\_\_\_\_

**TECHNICAL SCHEDULES A & B: SAP No. 3911  
CAB LV XLPE 50 1C AL BLACK**

**Schedule A: Purchaser's specific requirements**

**Schedule B: Guarantees and technical particulars of equipment offered**

<b>Item</b>	<b>Sub-clause of CP_TSSPEC_002</b>	<b>Description</b>	<b>Schedule A</b>	<b>Schedule B</b>
1		Manufacturer's name	Required	
2		Country of Origin	Required	
3	7.2	Symmetrical fault level for power cables only	kA	N/A
4	7.2	Earth fault level for power cables only	kA	N/A
5	4.3.3	Conductor size	mm <sup>2</sup>	50
6	4.3.3	Type of LV cable (Insulated wire, power or multi-core control)		Insulated wire
7	4.3.3	Number of cores		1
8	4.4.2	Marking requirements		Required
9	4.5	Technical Catalogue to be provided with tender documentation		Required
10	5	Certified copy of type test to be provided with tender documentation		SANS 1507
11		Annual estimated length required	m	

**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: \_\_\_\_\_

**DEVIATION SCHEDULE: SAP No. 3911**

**CAB LV XLPE 50 1CU BLACK**

<b>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.</b>		
<b>Item No.</b>	<b>Sub-clause of CP_TSSPEC_002</b>	<b>Proposed deviation</b>

**Note: Ticks, Cross [V, 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: \_\_\_\_\_

**TECHNICAL SCHEDULES A & B: SAP No. 3921  
CAB LV XLPE 95 1C AL YELLOW & GREEN**

**Schedule A: Purchaser's specific requirements**

**Schedule B: Guarantees and technical particulars of equipment offered**

Item	Sub-clause of CP_TSSPEC_002	Description	Schedule A	Schedule B
1		Manufacturer's name	Required	
2		Country of Origin	Required	
3	7.2	Symmetrical fault level for power cables only	kA	N/A
4	7.2	Earth fault level for power cables only	kA	N/A
5	4.3.3	Conductor size	mm <sup>2</sup>	95
6	4.3.3	Type of LV cable (Insulated wire, power or multi-core control)		Insulated wire
7	4.3.3	Number of cores		1
8	4.4.2	Marking requirements		Required
9	4.5	Technical Catalogue to be provided with tender documentation		Required
10	5	Certified copy of type test to be provided with tender documentation		SANS 1507
11		Annual estimated length required	m	

**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: \_\_\_\_\_

**DEVIATION SCHEDULE: SAP No. 3921**  
**CAB LV XLPE 95 1C AL YELLOW & GREEN**

<b>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.</b>		
<b>Item No.</b>	<b>Sub-clause of CP_TSSPEC_002</b>	<b>Proposed deviation</b>

**Note: Ticks, Cross [V, 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: \_\_\_\_\_

**TECHNICAL SCHEDULES A & B: SAP No. 3922  
CAB LV FLEXIBLE 120 1C AL YELLOW**

**Schedule A: Purchaser's specific requirements**

**Schedule B: Guarantees and technical particulars of equipment offered**

Item	Sub-clause of CP_TSSPEC_002	Description	Schedule A	Schedule B
1		Manufacturer's name	Required	
2		Country of Origin	Required	
3	7.2	Symmetrical fault level for power cables only	kA	Required
4	7.2	Earth fault level for power cables only	kA	N/A
5	4.3.3	Conductor size	mm <sup>2</sup>	120
6	4.3.3	Type of LV cable (Insulated wire, power or multi-core control)		Insulated wire
7	4.3.3	Number of cores		1
8	4.4.2	Marking requirements		Required
9	4.5	Technical Catalogue to be provided with tender documentation		Required
10	5	Certified copy of type test to be provided with tender documentation		SANS 1574
11		Annual estimated length required	m	

**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: \_\_\_\_\_

**DEVIATION SCHEDULE: SAP No. 3922**  
**CAB LV XLPE FLEXIBLE 120 1C AL YELLOW**

**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.**

<b>Item No.</b>	<b>Sub-clause of CP_TSSPEC_002</b>	<b>Proposed deviation</b>

**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: \_\_\_\_\_

**TECHNICAL SCHEDULES A & B: SAP No. 5040  
CAB LV PVC 2,5 4CU SWA**

**Schedule A: Purchaser's specific requirements**

**Schedule B: Guarantees and technical particulars of equipment offered**

<b>Item</b>	<b>Sub-clause of CP_TSSPEC_002</b>	<b>Description</b>	<b>Schedule A</b>	<b>Schedule B</b>
1		Manufacturer's name	Required	
2		Country of Origin	Required	
3	7.2	Symmetrical fault level for power cables only	kA	0,3
4	7.2	Earth fault level for power cables only	kA	1
5	4.3.3	Conductor size	mm <sup>2</sup>	2,5
6	4.3.3	Type of LV cable (Insulated wire, power or multi-core control)		Power
7	4.3.3	Number of cores		4
8	4.4.2	Marking requirements		Required
9	4.5	Technical Catalogue to be provided with tender documentation		Required
10	5	Certified copy of type test to be provided with tender documentation		SANS 1507
11		Annual estimated length required	m	

**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: \_\_\_\_\_

**DEVIATION SCHEDULE: SAP No. 5040**  
**CAB LV PVC 2,5 4CU SWA**

<b>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.</b>		
<b>Item No.</b>	<b>Sub-clause of CP_TSSPEC_002</b>	<b>Proposed deviation</b>

**Note: Ticks, Cross [X], Astrarick [~], 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:** \_\_\_\_\_

**TECHNICAL SCHEDULES A & B: SAP No. 3928  
CAB LV XLPE 25 2C AL SWA**

**Schedule A: Purchaser's specific requirements**

**Schedule B: Guarantees and technical particulars of equipment offered**

<b>Item</b>	<b>Sub-clause of CP_TSSPEC_002</b>	<b>Description</b>	<b>Schedule A</b>	<b>Schedule B</b>
1		Manufacturer's name	Required	
2		Country of Origin	Required	
3	7.2	Symmetrical fault level for power cables only	kA	1,5
4	7.2	Earth fault level for power cables only	kA	1,8
5	4.3.3	Conductor size	mm <sup>2</sup>	25
6	4.3.3	Type of LV cable (Insulated wire, power or multi-core control)		Power
7	4.3.3	Number of cores		2
8	4.4.2	Marking requirements		Required
9	4.5	Technical Catalogue to be provided with tender documentation		Required
10	5	Certified copy of type test to be provided with tender documentation		SANS 1507
11		Annual estimated length required	m	

**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: \_\_\_\_\_

**DEVIATION SCHEDULE: SAP No. 3928**  
**CAB LV XLPE 25 2C AL SWA**

**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.**

<b>Item No.</b>	<b>Sub-clause of CP_TSSPEC_002</b>	<b>Proposed deviation</b>

**Note: Ticks, Cross [V, 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: \_\_\_\_\_

**TECHNICAL SCHEDULES A & B: SAP No. 3929  
CAB LV XLPE 25 4C AL SWA**

**Schedule A: Purchaser's specific requirements**

**Schedule B: Guarantees and technical particulars of equipment offered**

Item	Sub-clause of CP_TSSPEC_002	Description	Schedule A	Schedule B
1		Manufacturer's name	Required	
2		Country of Origin	Required	
3	7.2	Symmetrical fault level for power cables only	kA	2.2
4	7.2	Earth fault level for power cables only	kA	1,8
5	4.3.3	Conductor size	mm <sup>2</sup>	25
6	4.3.3	Type of LV cable (Insulated wire, power or multi-core control)		Power
7	4.3.3	Number of cores		4
8	4.4.2	Marking requirements		Required
9	4.5	Technical Catalogue to be provided with tender documentation		Required
10	5	Certified copy of type test to be provided with tender documentation		SANS 1507
11		Annual estimated length required	m	

**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: \_\_\_\_\_

**DEVIATION SCHEDULE: SAP No. 3929**

**CAB LV XLPE 25 4C AL SWA**

**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.**

<b>Item No.</b>	<b>Sub-clause of CP_TSSPEC_002</b>	<b>Proposed deviation</b>

**Note: Ticks, Cross [V], 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: \_\_\_\_\_

**TECHNICAL SCHEDULES A & B: SAP No. 3930  
CAB LV XLPE 35 4C AL SWA**

**Schedule A: Purchaser's specific requirements**

**Schedule B: Guarantees and technical particulars of equipment offered**

<b>Item</b>	<b>Sub-clause of CP_TSSPEC_002</b>	<b>Description</b>	<b>Schedule A</b>	<b>Schedule B</b>
1		Manufacturer's name	Required	
2		Country of Origin	Required	
3	7.2	Symmetrical fault level for power cables only	kA	3
4	7.2	Earth fault level for power cables only	kA	4
5	4.3.3	Conductor size	mm <sup>2</sup>	35
6	4.3.3	Type of LV cable (Insulated wire, power or multi-core control)		Power
7	4.3.3	Number of cores		4
8	4.4.2	Marking requirements		Required
9	4.5	Technical Catalogue to be provided with tender documentation		Required
10	5	Certified copy of type test to be provided with tender documentation		SANS 1507
11		Annual estimated length required	m	

**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: \_\_\_\_\_

**DEVIATION SCHEDULE: SAP No. 3930  
CAB LV XLPE 35 4C AL SWA**

**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.**

<b>Item No.</b>	<b>Sub-clause of CP_TSSPEC_002</b>	<b>Proposed deviation</b>

**Note: Ticks, Cross [V, 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: \_\_\_\_\_

**TECHNICAL SCHEDULES A & B: SAP No. 3931  
CAB LV XLPE 50 4C AL SWA**

**Schedule A: Purchaser's specific requirements**

**Schedule B: Guarantees and technical particulars of equipment offered**

Item	Sub-clause of CP_TSSPEC_002	Description	Schedule A	Schedule B
1		Manufacturer's name	Required	
2		Country of Origin	Required	
3	7.2	Symmetrical fault level for power cables only	kA	4.1
4	7.2	Earth fault level for power cables only	kA	4
5	4.3.3	Conductor size	mm <sup>2</sup>	50
6	4.3.3	Type of LV cable (Insulated wire, power or multi-core control)		Power
7	4.3.3	Number of cores		4
8	4.4.2	Marking requirements		Required
9	4.5	Technical Catalogue to be provided with tender documentation		Required
10	5	Certified copy of type test to be provided with tender documentation		SANS 1507
11		Annual estimated length required	m	

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

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Tenderer's Authorised Signatory: \_\_\_\_\_

Name in block letters

Signature

Full name of company: \_\_\_\_\_

**DEVIATION SCHEDULE: SAP No. 3931**

## **CAB LV XLPE 50 4C AL SWA**

**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 No.	Sub-clause of CP_TSSPEC_002	Proposed deviation

**Note: Ticks, Cross [X], Astrarick [~], 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:** \_\_\_\_\_

**TECHNICAL SCHEDULES A & B: SAP No. 3932  
CAB LV XLPE 95 4C SWA**

**Schedule A: Purchaser's specific requirements**

**Schedule B: Guarantees and technical particulars of equipment offered**

Item	Sub-clause of CP_TSSPEC_002	Description	Schedule A	Schedule B
1		Manufacturer's name	Required	
2		Country of Origin	Required	
3	7.2	Symmetrical fault level for power cables only	kA	8.2
4	7.2	Earth fault level for power cables only	kA	7
5	4.3.3	Conductor size	mm <sup>2</sup>	95
6	4.3.3	Type of LV cable (Insulated wire, power or multi-core control)		Power
7	4.3.3	Number of cores		4
8	4.4.2	Marking requirements		Required
9	4.5	Technical Catalogue to be provided with tender documentation		Required
10	5	Certified copy of type test to be provided with tender documentation		SANS 1507
11		Annual estimated length required	m	

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Signature

Full name of company: \_\_\_\_\_

**DEVIATION SCHEDULE: SAP No. 3932**  
**CAB LV XLPE 95 4C AL SWA**

**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.**

<b>Item No.</b>	<b>Sub-clause of CP_TSSPEC_002</b>	<b>Proposed deviation</b>

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

Tender Number: \_\_\_\_\_

Tenderer's Authorised Signatory: \_\_\_\_\_

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Signature

Full name of company: \_\_\_\_\_

**TECHNICAL SCHEDULES A & B: SAP No. 3933**  
**CAB LV XLPE 150 4C AL SWA**

**Schedule A: Purchaser's specific requirements**

**Schedule B: Guarantees and technical particulars of equipment offered**

<b>Item</b>	<b>Sub-clause of CP_TSSPEC_002</b>	<b>Description</b>	<b>Schedule A</b>	<b>Schedule B</b>
1		Manufacturer's name	Required	
2		Country of Origin	Required	
3	7.2	Symmetrical fault level for power cables only	kA	12.7
4	7.2	Earth fault level for power cables only	kA	10
5	4.3.3	Conductor size	mm <sup>2</sup>	150
6	4.3.3	Type of LV cable (Insulated wire, power or multi-core control)		Power
7	4.3.3	Number of cores		4
8	4.4.2	Marking requirements		Required
9	4.5	Technical Catalogue to be provided with tender documentation		Required
10	5	Certified copy of type test to be provided with tender documentation		SANS 1507
11		Annual estimated length required	m	

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Tender Number: \_\_\_\_\_

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Signature

Full name of company: \_\_\_\_\_

**DEVIATION SCHEDULE: SAP No. 3933**  
**CAB LV XLPE 150 4C AL SWA**

**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.**

Executive summary		
Item No.	Sub-clause of CP_TSSPEC_002	Proposed deviation

**Note: Ticks, Cross [X], Astrarick [~], 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: \_\_\_\_\_

**SPECIFICATION FOR LV INSULATED WIRE POWER  
AND MULTI-CORE CONTROL CABLES**

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**TECHNICAL SCHEDULES A & B: SAP No. 3934  
CAB LV XLPE 240 4C AL SWA**

**Schedule A: Purchaser's specific requirements**

**Schedule B: Guarantees and technical particulars of equipment offered**

<b>Item</b>	<b>Sub-clause of CP_TSSPEC_002</b>	<b>Description</b>	<b>Schedule A</b>	<b>Schedule B</b>
1		Manufacturer's name	Required	
2		Country of Origin	Required	
3	7.2	Symmetrical fault level for power cables only	kA	20.9
4	7.2	Earth fault level for power cables only	kA	12
5	4.3.3	Conductor size	mm <sup>2</sup>	240
6	4.3.3	Type of LV cable (Insulated wire, power or multi-core control)		Power
7	4.3.3	Number of cores		4
8	4.4.2	Marking requirements		Required
9	4.5	Technical Catalogue to be provided with tender documentation		Required
10	5	Certified copy of type test to be provided with tender documentation		SANS 1507
11		Annual estimated length required	m	

**Note: Ticks, Cross [✓], 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: \_\_\_\_\_

**DEVIATION SCHEDULE: SAP No. 3934**  
**CAB LV XLPE 240 4C AL SWA**

**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 No.	Sub-clause of CP_TSSPEC_002	Proposed deviation

**Note: Ticks, Cross [V, 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: \_\_\_\_\_

**TECHNICAL SCHEDULES A & B: SAP No. 5107  
CAB LV PVC 2,5 12CU SWA**

**Schedule A: Purchaser's specific requirements**

**Schedule B: Guarantees and technical particulars of equipment offered**

<b>Item</b>	<b>Sub-clause of CP_TSSPEC_002</b>	<b>Description</b>	<b>Schedule A</b>	<b>Schedule B</b>
1		Manufacturer's name	Required	
2		Country of Origin	Required	
3	7.2	Symmetrical fault level for power cables only	kA	N/A
4	7.2	Earth fault level for power cables only	kA	N/A
5	4.3.3	Conductor size	mm <sup>2</sup>	2,5
6	4.3.3	Type of LV cable (Insulated wire, power or multi-core control)		Multi-core control
7	4.3.3	Number of cores		12
8	4.4.2	Marking requirements		Required
9	4.5	Technical Catalogue to be provided with tender documentation		Required
10	5	Certified copy of type test to be provided with tender documentation		SANS 1507
11		Annual estimated length required	m	

**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: \_\_\_\_\_

SPECIFICATION FOR LV INSULATED WIRE POWER AND MULTI-CORE CONTROL CABLES      REFERENCE CP\_TSSPEC\_002      REV 8  
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**DEVIATION SCHEDULE: SAP No. 5107  
CAB LV PVC 2,5 12CU SWA**

**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 No.	Sub-clause of CP_TSSPEC_002	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: \_\_\_\_\_

**Material Group: CABLE IND**

**ANNEXURE D- STOCK ITEMS**

Item	SAP No.	SAP Short Description (Copper)	SAP Long Description (Copper)	SAP Short Description (Aluminum)	SAP Long Description (Aluminum)	Op. Usage
1	1722	CAB LV PVC 2,5 1CU RED	CABLE, 600/1000 V, 2,5 MM SQ SINGLE CORE STRANDED COPPER CONDUCTOR, PVC INSULATED, RED. ITEM SPECIFICATION NO. CP_TSSPEC_002.	N/A	N/A	HOUSE WIRING STREET LIGHTING, LUMINAIRE TO BREAKER
2	1521	CAB LV PVC 2,5 1CU YELLOW	CABLE, 600/1000 V, 2,5 MM SQ SINGLE CORE STRANDED COPPER CONDUCTOR, PVC INSULATED, YELLOW. ITEM SPECIFICATION NO. CP_TSSPEC_002.	N/A	N/A	HOUSE WIRING STREET LIGHTING, LUMINAIRE TO BREAKER
3	1724	CAB LV PVC 2,5 1CU BLUE	CABLE, 600/1000 V, 2,5 MM SQ SINGLE CORE STRANDED COPPER CONDUCTOR, PVC INSULATED, BLUE. ITEM SPECIFICATION NO. CP_TSSPEC_002.	N/A	N/A	HOUSE WIRING STREET LIGHTING, LUMINAIRE TO BREAKER
4	1723	CAB LV PVC 2,5 1CU BLACK	CABLE, 600/1000 V, 2,5 MM SQ SINGLE CORE STRANDED COPPER CONDUCTOR, PVC INSULATED, BLACK. ITEM SPECIFICATION NO. CP_TSSPEC_002.	N/A	N/A	HOUSE WIRING AND STREET LIGHTS NEUTRAL
5	1725	CAB LV PVC 2,5 1CU YELLOW & GREEN	CABLE, 600/1000 V, 2,5 MM SQ SINGLE CORE STRANDED COPPER CONDUCTOR, PVC INSULATED, YELLOW / GREEN. ITEM SPECIFICATION NO. CP_TSSPEC_002.	N/A	N/A	HOUSE WIRING EARTHING

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6	2972	CAB LV 701CU BARE COPPER	CABLE, 600/1000 V, 70 MM SQ SINGLE CORE STRANDED COPPER CONDUCTOR, UNINSULATED. ITEM SPECIFICATION NO. CP_TSSPEC_002.	N/A	N/A	EARTHING FOR STRUCTURES
7	3923			CAB LV XLPE 25 1C AL RED	CABLE, 600/1000 V, 25 MM SQ SINGLE CORE STRANDED ALUMINUM CONDUCTOR, XLPE INSULATED, RED ITEM SPECIFICATION NO. CP_TSSPEC_002.	
8	3924			CAB LV XLPE 25 1C AL YELLOW	CABLE, 600/1000 V, 25 MM SQ SINGLE CORE STRANDED ALUMINUM CONDUCTOR, XLPE INSULATED, YELLOW ITEM SPECIFICATION NO. CP_TSSPEC_002	
9	3925			CAB LV XLPE 25 1C AL BLUE	CABLE, 600/1000 V, 25 MM SQ SINGLE CORE STRANDED ALUMINUM CONDUCTOR, XLPE INSULATED, BLUE ITEM SPECIFICATION NO. CP_TSSPEC_002.	
10	3926			CAB LV XLPE 25 1C AL BLACK	CABLE, 600/1000 V, 50 MM SQ SINGLE CORE STRANDED ALUMINUM CONDUCTOR, XLPE INSULATED, BLACK ITEM SPECIFICATION NO. CP_TSSPEC_002	

**SPECIFICATION FOR LV INSULATED WIRE POWER  
AND MULTI-CORE CONTROL CABLES**

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11	3927	N/A	N/A	CABLE, 600/1000 V, 25 MM SQ SINGLE CORE STRANDED ALUMINIUM CONDUCTOR, XLPE INSULATED, YELLOW / GREEN. ITEM SPECIFICATION NO. CP_TSSPEC_002.
12	3911	N/A	N/A	CABLE, 600/1000 V, 50 MM SQ SINGLE CORE STRANDED ALUMINIUM CONDUCTOR, XLPE INSULATED, BLACK ITEM SPECIFICATION NO. CP_TSSPEC_002
13	3921	N/A	N/A	CABLE, 600/1000 V, 95 MM SQ SINGLE CORE STRANDED ALUMINIUM CONDUCTOR, XLPE INSULATED, FLEXIBLE, YELLOW. ITEM SPECIFICATION NO. CP_TSSPEC_002
14	3922	N/A	N/A	CABLE, 600/1000 V, 120 MM SQ SINGLE CORE STRANDED ALUMINIUM CONDUCTOR, XLPE INSULATED, FLEXIBLE, YELLOW. ITEM SPECIFICATION NO. CP_TSSPEC_002.

**SPECIFICATION FOR LV INSULATED WIRE POWER  
AND MULTI-CORE CONTROL CABLES**

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**Material Group: CABLE LV**

Item	SAP No.	SAP Short Description (Copper)	SAP Long Description (Copper)	SAP Short Description (Aluminum)	SAP Long Description (Aluminum)	Op. usage
15	5040	CAB LV PVC 2.5 4CU SWA	CABLE, 600/1000 V, 2.5 MM SQ FOUR CORE STRANDED COPPER CONDUCTOR, FLAME RETARDANT, PVC INSULATED, BEDDED AND SHEATHED WITH GALVANISED STEEL WIRE ARMOUR. ITEM SPECIFICATION NO. CP_TSSPEC_002.	N/A	N/A	PROTECTION PANEL, CT CONNECTION TRANSFORMER MARSHALLING KIOSK
16	3928			N/A	CAB LV XLPE 25 2C AL SWA	CABLE, 600/1000 V, 25 MM SQ TWO CORE STRANDED ALUMINIUM CONDUCTOR, FLAME RETARDANT, XLPE INSULATED, BEDDED AND SHEATHED WITH GALVANISED STEEL WIRE ARMOUR. ITEM SPECIFICATION NO. CP_TSSPEC_002.
17	3929			N/A	CAB LV XLPE 25 4C AL SWA	CABLE, 600/1000 V, 25 MM SQ FOUR CORE STRANDED ALUMINIUM CONDUCTOR, FLAME RETARDANT XLPE INSULATED, BEDDED AND SHEATHED WITH GALVANISED STEEL WIRE. ITEM SPECIFICATION NO. CP_TSSPEC_002.
18	3930			N/A	CAB LV XLPE 35 4 AL SWA	CABLE, 600/1000 V, 35 MM SQ FOUR CORE STRANDED ALUMINIUM CONDUCTOR, FLAME RETARDANT XLPE INSULATED, BEDDED AND SHEATHED WITH GALVANISED STEEL WIRE ARMOUR. ITEM

**SPECIFICATION FOR LV INSULATED WIRE POWER  
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19	3931	N/A	N/A	CAB LV XLPE 50 4C AL SWA	CABLE, 600/1000 V, 50 MM SQ FOUR CORE STRANDED XLPE CONDUCTOR, FLAME RETARDANT, XLPE INSULATED, BEDDED AND SHEATHED WITH GALVANISED STEEL WIRE ARMOUR. ITEM SPECIFICATION NO. CP_TSSPEC_002.	SUPPLY CABLE,POLE/MINISUB TO PILLAR BOX
20	3932	N/A	N/A	CAB LV XLPE 95 4C AL SWA	CABLE, 600/1000 V, 95 MM SQ FOUR CORE STRANDED ALUMINIUM CONDUCTOR, FLAME RETARDANT, XLPE INSULATED, BEDDED AND SHEATHED WITH GALVANISED STEEL WIRE ARMOUR. ITEM SPECIFICATION NO. CP_TSSPEC_002.	SUPPLY CABLE,MINISUB/PILLAR BOX TO PILLAR BOX
21	3933	N/A	N/A	CAB LV XLPE 150 4C AL SWA	CABLE, 600/1000 V, 150 MM SQ FOUR CORE STRANDED ALUMINIUM CONDUCTOR, FLAME RETARDANT, XLPE INSULATED, BEDDED AND SHEATHED WITH GALVANISED STEEL WIRE ARMOUR. ITEM SPECIFICATION NO. CP_TSSPEC_002.	MINISUB TO OVERHEAD LINES
23	3934	N/A	N/A	CAB LV XLPE 240 4C AL SWA	CABLE, 600/1000 V, 240 MM SQ FOUR CORE STRANDED ALUMINIUM CONDUCTOR, FLAME RETARDANT, XLPE INSULATED, BEDDED AND SHEATHED WITH GALVANISED STEEL WIRE ARMOUR. ITEM SPECIFICATION NO. CP_TSSPEC_002.	

**SPECIFICATION FOR LV INSULATED WIRE POWER  
AND MULTI-CORE CONTROL CABLES**

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**Material Group: CABLE PT**

Item	SAP No.	SAP Short Description	SAP Long Description	SAP Short Description (Aluminum)	SAP Long Description (Aluminum)	Op. Usage
24	5107	CAB LV PVC 2,5 12CU SWA	CABLE, 600/1000 V, 2,5 MM SQ TWELVE CORE STRANDED COPPER CONDUCTOR, FLAME RETARDANT, PVC INSULATED AND SHEATHED, GALVANISED STEEL WIRE ARMoured. ITEM SPECIFICATION NO. CP_TSSPEC_002.	N/A	N/A	PROTECTION PANELS

