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

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OCTOBER 2021
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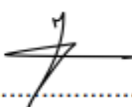



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FOREWORD

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 Equivalent: Copper vs. Aluminum Cables

Table 1: 3/4C XLPE Insulated PVC bedded, SWA PVC Sheathed 600/1000 V)

COPPER	CURRENT RATING			Volt drop(3 ϕ)	ALUMINIUM	CURRENT RATING			Volt drop(3 ϕ)
Cable size (mm ²)	Ground (A)	Duct (A)	Air (A)		Cable size (mm ²)	Ground (A)	Duct (A)	Air (A)	
16	94	110	76	2.546	25	115	92	108	1.813
25	123	96	110	1.515	35	129	104	119	1.342
35	148	116	135	1.097	50	158	130	151	0.933
50	177	138	163	0.817	70	192	157	186	0.681
70	216	171	207	0.576	95	219	179	216	0.545
95	258	302	209	0.448	120	278	229	287	0.369
120	293	344	238	0.365	150	324	268	342	0.296
150	329	387	268	0.307	185	324	268	342	0.296
185	371	435	302	0.260	240	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(3 ϕ)	ALUMINIUM	CURRENT RATING			Volt drop(3ϕ)
Cable size (mm ²)	Ground (A)	Duct (A)	Air (A)		Cable size (mm ²)	Ground (A)	Duct (A)	Air (A)	
25	127	111	112	1.52	35	150	116	145	1.93
35	153	132	141	1.10	50	192	163	176	1.43
50	180	155	172	0.82	70	238	202	220	0.99
70	221	190	223	0.58	95	292	249	274	0.72
95	265	226	273	0.43	120	329	279	313	0.58
120	301	256	318	0.36	150	364	310	348	0.48
150	338	287	369	0.30	185	412	350	397	0.39
185	381	323	424	0.26	240	487	414	476	0.31
240	442	372	504	0.22	300	555	472	548	0.26
300	499	419	584	0.20	400	560	476	560	0.21
400	565	472	679	0.18	500	572	486	579	0.19
500	634	532	778	0.17	630	582	495	597	0.17
630	718	603	892	0.15	800	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 mm² up to 16mm² and stranded Aluminium for cable sizes 25mm² and above

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

Colour(s) of wires	Wire sizes (mm²)	Application
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

Number of phase cores	Colour(s) of phase cores	Colour of neutral core	Sizes of Cores (mm²)	Application
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

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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

Number of cores	Colour(s) of phase cores	Sizes of Cores (mm ²)	Application
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 mm² shall be supplied in drum lengths of 500 m.
- 5.1.3 Power cables greater than 16 mm² 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 mm² 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 mm² 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

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.

ANNEXURE A - BIBLIOGRAPHY

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

ANNEXURE B - REVISION INFORMATION

DATE	REV. NO.	NOTES
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 ² PVC insulated copper wire Added 70 mm ² PVC insulated copper wire Added 70 mm ² bare copper wire Added 185 mm ² 11 kV PVC insulated copper wire Added 2,5 mm ² grey PVC insulated copper wire General editing Update of technical schedules
September 2006	4	Added 95 mm ² flexible cable Added reference to SANS 1574 General editing Updated technical schedules Amended SAP codes in Annexure D
February 2008	5	Added 70 mm ² 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 ² up to 16mm ² Stranded Aluminium for cable sizes 25mm ² 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

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 ²	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: _____

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

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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.

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: _____

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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

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 ²	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: _____

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Name in block letters

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Full name of company: _____

**SPECIFICATION FOR LV INSULATED WIRE POWER
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DEVIATION SCHEDULE: SAP No. 1521

CAB LV PVC 2,5 1CU YELLOW

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Item No.	Sub-clause of CP_TSSPEC_002	Proposed deviation

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Tenderer's Authorised Signatory: _____

Name in block letters

Signature

Full name of company: _____

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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

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 ²	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: _____

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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.

Item No.	Sub-clause of CP_TSSPEC_002	Proposed deviation

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**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

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 ²	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	

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DEVIATION SCHEDULE: SAP No. 1723

CAB LV PVC 2,5 1CU BLACK

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Item No.	Sub-clause of CP_TSSPEC_002	Proposed deviation

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**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

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 ² 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	

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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.

Item No.	Sub-clause of CP_TSSPEC_002	Proposed deviation

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**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

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 ²	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**

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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.

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: _____

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 ²	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**

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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.

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: _____

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

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**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

Item	Sub-clause of CP_TSSPEC_002	Description	Schedule A	Schedule 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 ² 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**

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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.

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. 3925
CAB LV XLPE 25 1C AL BLUE**

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 ²	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**

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DEVIATION SCHEDULE: SAP No. 3925

CAB LV XLPE 25 1C AL 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.

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: _____

**SPECIFICATION FOR LV INSULATED WIRE POWER
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**TECHNICAL SCHEDULES A & B: SAP No. 3926
CAB LV XLPE 25 1C AL BLACK**

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 ²	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**

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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: _____

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

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**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

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 ²	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**

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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.

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: _____

**SPECIFICATION FOR LV INSULATED WIRE POWER
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**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

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 ²	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: _____

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

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DEVIATION SCHEDULE: SAP No. 3911

CAB LV XLPE 50 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.

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: _____

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

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**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 ²	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: _____

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

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**DEVIATION SCHEDULE: SAP No. 3921
CAB LV XLPE 95 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.

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. 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 ²	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: _____

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

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**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.

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: _____

**SPECIFICATION FOR LV INSULATED WIRE POWER
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**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

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 0,3	
4	7.2	Earth fault level for power cables only	kA 1	
5	4.3.3	Conductor size	mm ² 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: _____

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

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DEVIATION SCHEDULE: SAP No. 5040

CAB LV PVC 2,5 4CU 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: _____

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

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**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

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	1,5	
4	7.2	Earth fault level for power cables only kA	1,8	
5	4.3.3	Conductor size mm ²	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: _____

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

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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.

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: _____

**SPECIFICATION FOR LV INSULATED WIRE POWER
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**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	2.2	
4	7.2	Earth fault level for power cables only	1,8	
5	4.3.3	Conductor size	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		

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
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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.

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: _____

**SPECIFICATION FOR LV INSULATED WIRE POWER
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**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

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 3	
4	7.2	Earth fault level for power cables only	kA 4	
5	4.3.3	Conductor size	mm ² 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: _____

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

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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.

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: _____

**SPECIFICATION FOR LV INSULATED WIRE POWER
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**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 ² 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

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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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], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

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**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 ²	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		

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

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Name in block letters

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DEVIATION SCHEDULE: SAP No. 3932

CAB LV XLPE 95 4C AL SWA

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Item No.	Sub-clause of CP_TSSPEC_002	Proposed deviation

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Tenderer's Authorised Signatory: _____

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**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

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 12.7	
4	7.2	Earth fault level for power cables only	kA 10	
5	4.3.3	Conductor size	mm ² 150	
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	

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

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Full name of company: _____

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AND MULTI-CORE CONTROL CABLES**

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DEVIATION SCHEDULE: SAP No. 3933

CAB LV XLPE 150 4C AL SWA

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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

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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

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 20.9	
4	7.2	Earth fault level for power cables only	kA 12	
5	4.3.3	Conductor size	mm ² 240	
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 [✓, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted

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

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**SPECIFICATION FOR LV INSULATED WIRE POWER
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**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

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 ² 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

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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: _____

ANNEXURE D- STOCK ITEMS

Material Group: CABLE IND

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

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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
6	2972	CAB LV 70 1CU 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	N/A	N/A	CAB LV XLPE 25 1C AL RED	CABLE, 600/1000 V, 25 MM SQ SINGLE CORE STRANDED ALUMINIUM CONDUCTOR, XLPE INSULATED, RED ITEM SPECIFICATION NO. CP_TSSPEC_002.	
8	3924	N/A	N/A	CAB LV XLPE 25 1C AL YELLOW	CABLE, 600/1000 V, 25 MM SQ SINGLE CORE STRANDED ALUMINIUM CONDUCTOR, XLPE INSULATED, YELLOW ITEM SPECIFICATION NO. CP_TSSPEC_002	
9	3925	N/A	N/A	CAB LV XLPE 25 1C AL BLUE	CABLE, 600/1000 V, 25 MM SQ SINGLE CORE STRANDED ALUMINIUM CONDUCTOR, XLPE INSULATED, BLUE ITEM SPECIFICATION NO. CP_TSSPEC_002.	
10	3926	N/A	N/A	CAB LV XLPE 25 1C AL BLACK	CABLE, 600/1000 V, 50 MM SQ SINGLE CORE STRANDED ALUMINIUM CONDUCTOR, XLPE INSULATED, BLACK. ITEM	

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					SPECIFICATION NO. CP_TSSPEC_002	
11	3927	N/A	N/A	CAB LV XLPE 25 1C AL YELLOW &GREEN	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	CAB LV XLPE 50 1C AL BLACK	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	CAB LV XLPE 95 1C AL YELLOW&GREEN	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	CAB LV XLPE 1201C AL YELLOW	CABLE, 600/1000 V, 120 MM SQ SINGLE CORE STRANDED ALUMINIUM CONDUCTOR, XLPE INSULATED, FLEXIBLE, YELLOW. ITEM SPECIFICATION NO. CP_TSSPEC_002.	

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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	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.	SERVICE POINT TO THE METER (SINGLE PHASE)
17	3929	N/A	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.	SERVICE POINT TO THE METER (THREE PHASE) STREET LIGHTS PANEL BOX
18	3930	N/A	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	STREET LIGHTS,CONNECTING 2 POLES TOGETHER

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					SHEATHED WITH GALVANISED STEEL WIRE ARMOUR. ITEM SPECIFICATION NO. CP_TSSPEC_002.	
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	

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					SPECIFICATION NO. CP_TSSPEC_002	
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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