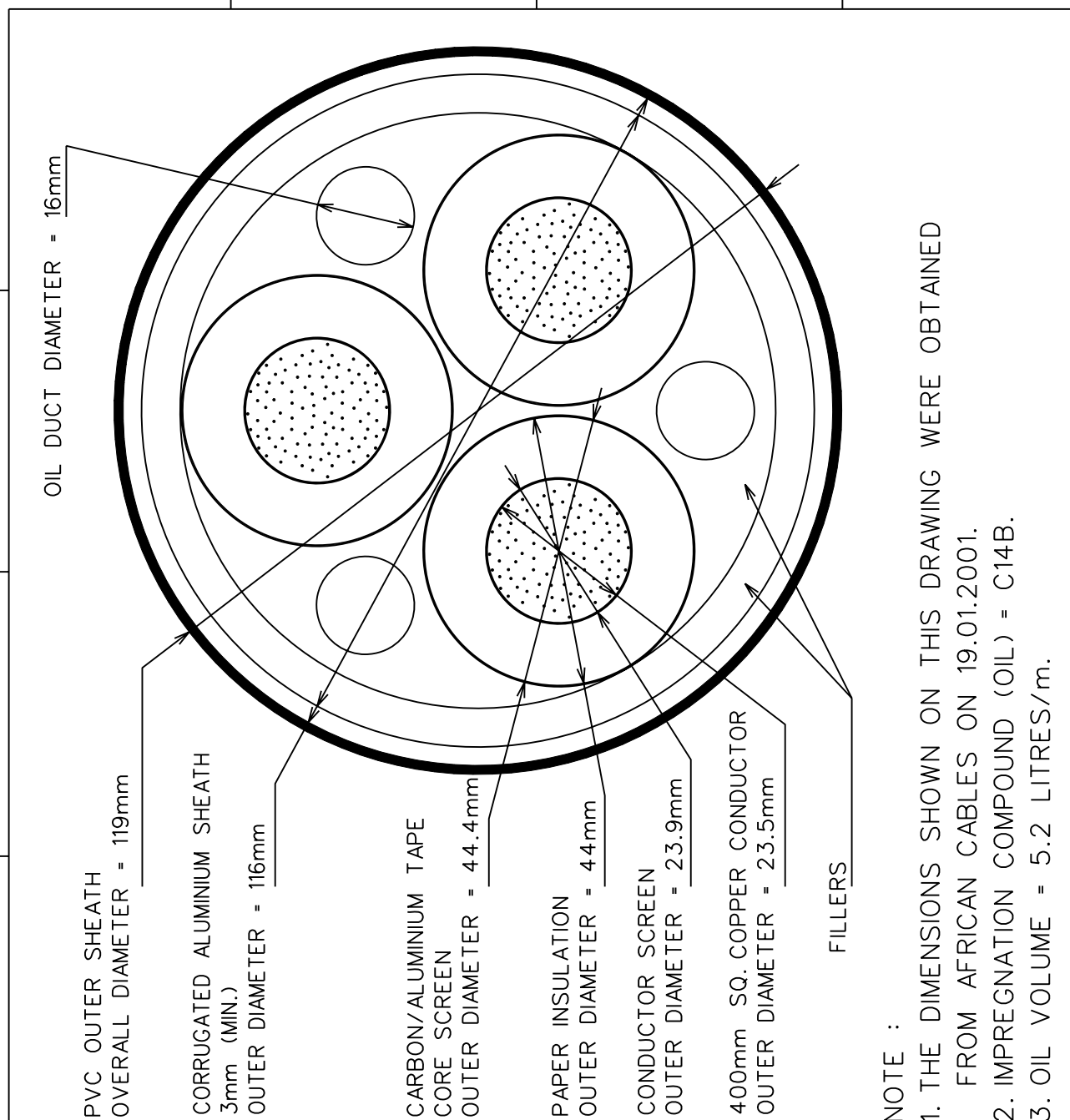




7	66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED	P.A.T.	R.KELLY	R.KELLY	25.08.2009	
6	44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30	P.A.T.	R.KELLY	R.KELLY	05.03.2009	
5	CABLES ADDED FOR WESTERN REGION	P.A.V.	R.KELLY	R.KELLY	03.09.2008	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.

 Eskom Distribution		132kV OIL-FILLED 400mm SQ.COPPER THREE CORE CABLE PRYSMIAN (PIRELLI)			
AUTH: R. KELLY					
DATE: 17.05.2007					
CHKD: R. KELLY					
DATE: 17.05.2007		D-DT-0881	SET	SHEET	REVISION
DRAWN: P.A. VERMAAK			38	1	7
DATE: 17.05.2007					

1

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A

A

ALUMINIUM TAPE
CONDUCTOR SCREEN
OVERALL DIAMETER = 41.7mm

PE OUTER SHEATH
OVERALL DIAMETER = 80mm

1000mm SQ. ALUMINIUM CONDUCTOR
6 SEGMENTS
OVERALL DIAMETER = 41.3mm

B

B

CORRUGATED ALUMINIUM SHEATH
2.8mm (MIN.)
OUTER DIAMETER = 72.9mm

ALUMINIUM/CARBON
CORE SCREEN
OUTER DIAMETER = 57.9mm

C

C

PAPER INSULATION
OUTER DIAMETER = 57mm

OIL DUCT
DIAMETER = 12mm

NOTE :

1. THE DIMENSIONS SHOWN ON THIS DRAWING WERE OBTAINED FROM AFRICAN CABLES ON 19.01.2001.
2. IMPREGNATION COMPOUND (OIL) = C14B.
3. OIL VOLUME = 3.91 LITRES/m.

D

D

7	66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED	P.A.T.	R.KELLY	R.KELLY	25.08.2009	
6	44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30	P.A.T.	R.KELLY	R.KELLY	05.03.2009	
5	CABLES ADDED FOR WESTERN REGION	P.A.V.	R.KELLY	R.KELLY	03.09.2008	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.

E

E



88kV OIL-FILLED
1000mm SQ. ALUMINIUM
SINGLE CORE CABLE
(DAINICHI - NIPPON)

AUTH: R. KELLY

DATE: 17.05.2007

CHKD: R. KELLY

DATE: 17.05.2007

DRAWN: P.A. VERMAAK

DATE: 17.05.2007

F

F

D-DT-0881

SET

SHEET

REVISION

38

2

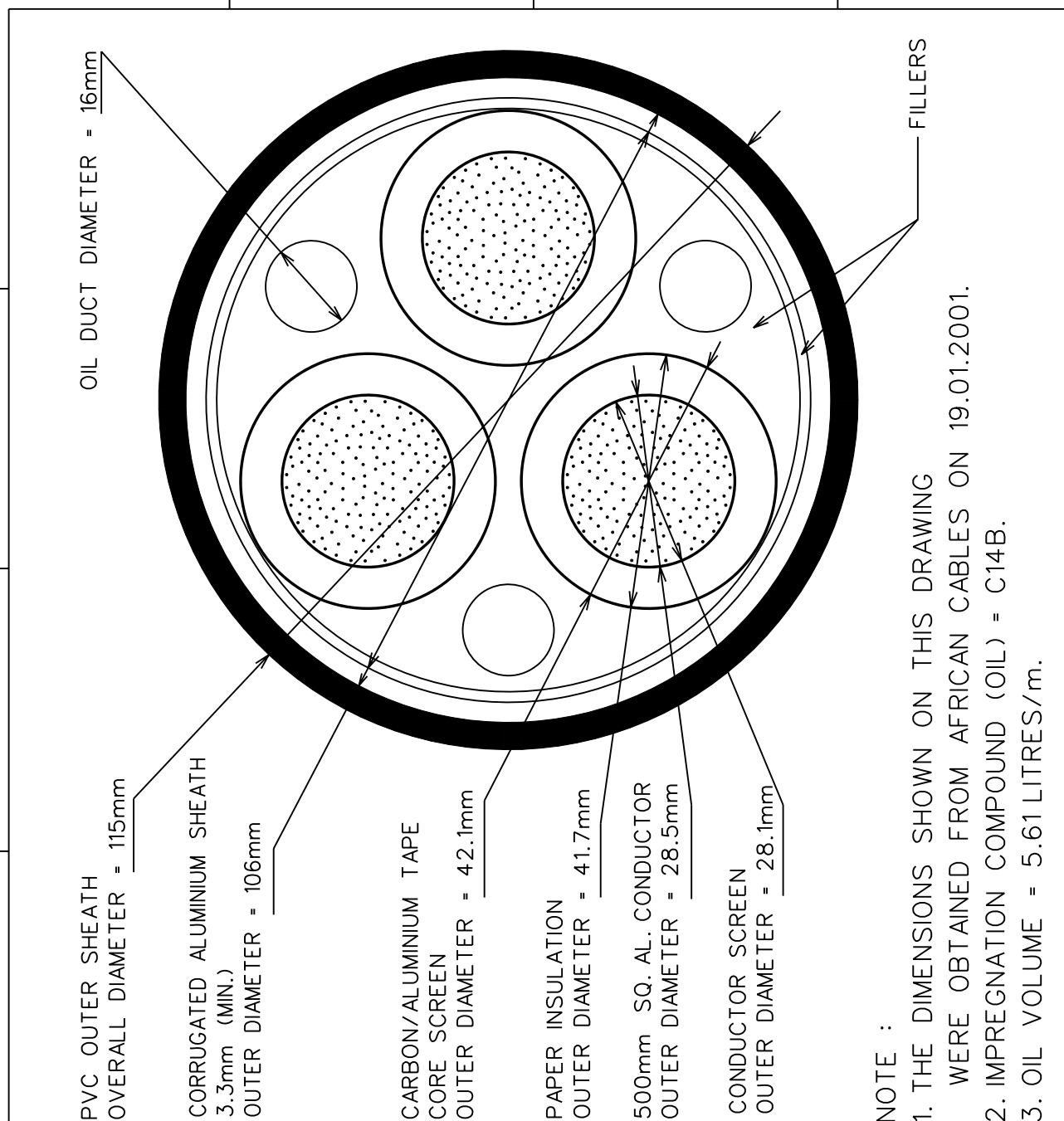
7

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4 A4L



NOTE :

1. THE DIMENSIONS SHOWN ON THIS DRAWING WERE OBTAINED FROM AFRICAN CABLES ON 19.01.2001.
2. IMPREGNATION COMPOUND (OIL) = C14B.
3. OIL VOLUME = 5.61 LITRES/m.

7	66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED	P.A.T.	R.KELLY	R.KELLY	25.08.2009	
6	44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30	P.A.T.	R.KELLY	R.KELLY	05.03.2009	
5	CABLES ADDED FOR WESTERN REGION	P.A.V.	R.KELLY	R.KELLY	03.09.2008	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.

		88kV OIL-FILLED 500mm SQ. ALUMINIUM THREE CORE CABLE (BICC)			
AUTH: R. KELLY					
DATE: 17.05.2007					
CHKD: R. KELLY					
DATE: 17.05.2007		D-DT-0881	SET	SHEET	REVISION
DRAWN: P.A. VERMAAK			38	3	7
DATE: 17.05.2007					

PVC OUTER SHEATH
OVERALL DIAMETER = 91.5mm

CORRUGATED ALUMINIUM SHEATH
4mm (MIN.)
OUTER DIAMETER = 82mm

EXTRUDED SEMI-CONDUCTIVE
CORE SCREEN
OUTER DIAMETER = 67mm

XLPE INSULATION
OUTER DIAMETER = 65mm

EXTRUDED SEMI-CONDUCTIVE
CONDUCTOR SCREEN
OVERALL DIAMETER = 38mm

900mm SQ. ALUMINIUM CONDUCTOR
4 SEGMENTS
OVERALL DIAMETER = 36mm

NOTE :

1. THE DIMENSIONS SHOWN ON THIS DRAWING WERE OBTAINED FROM AFRICAN CABLES ON 19.01.2001.
2. STANDARD STRESS DESIGN.

7	66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED	P.A.T.	R.KELLY	R.KELLY	25.08.2009	
6	44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30	P.A.T.	R.KELLY	R.KELLY	05.03.2009	
5	CABLES ADDED FOR WESTERN REGION	P.A.V.	R.KELLY	R.KELLY	03.09.2008	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.



AUTH: R. KELLY

DATE: 17.05.2007

CHKD: R. KELLY

DATE: 17.05.2007

DRAWN: P.A. VERMAAK

DATE: 17.05.2007

88kV XLPE INSULATED
900mm SQ. ALUMINIUM
SINGLE CORE CABLE
(CBIELECTRIC AFRICAN CABLES)

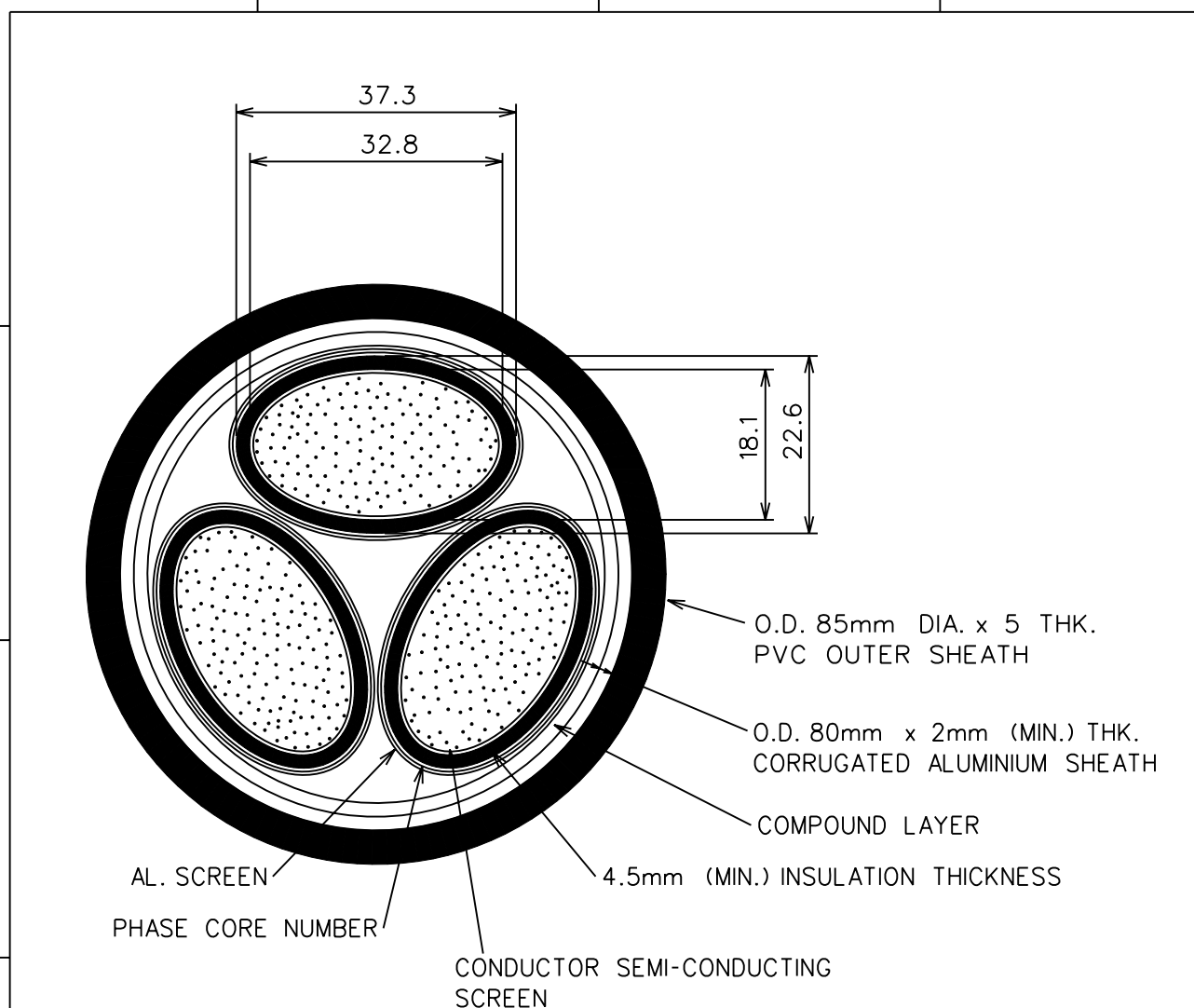
D-DT-0881

SET	SHEET	REVISION
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38

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7



NOTE :

1. PRYSMIAN (PIRELLI) NO LONGER MANUFACTURE THIS PARTICULAR CABLE DESIGN.
SEE D-DT-0881 SHEET 14 FOR ALTERNATIVE REPLACEMENT CABLE DESIGN OFFERED BY PRYSMIAN.
2. OIL VOLUME = 3.51 LITRES/m.

7	66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED	P.A.T.	R.KELLY	R.KELLY	25.08.2009	
6	44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30	P.A.T.	R.KELLY	R.KELLY	05.03.2009	
5	CABLES ADDED FOR WESTERN REGION	P.A.V.	R.KELLY	R.KELLY	03.09.2008	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.
		44kV OIL-FILLED 400mm SQ. ALUMINIUM THREE CORE CABLE (PIRELLI)				
AUTH: R. KELLY		D-DT-0881				
DATE: 17.05.2007						
CHKD: R. KELLY						
DATE: 17.05.2007						
DRAWN: P.A. VERMAAK						
DATE: 17.05.2007		SET		SHEET		REVISION
		38		5		7

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A

A

400 SQ. CU CONDUCTOR
NOMINAL DIAMETER = 23.15mm

CONDUCTOR SCREEN
CARBON PAPER

B

B

PAPER INSULATION
NOMINAL DIAMETER = 43.3mm
NOMINAL THICKNESS = 9.4mm

INSULATION SCREEN
CARBON PAPER AND
ALUMINIUM TAPE

C

C

BINDER

CLEARANCE

CORRUGATED ALUMINIUM SHEATH
NOMINAL DIAMETER = 59.1mm
NOMINAL THICKNESS = 1.4mm

FINISH - PVC AND GRAPHITE
NOMINAL DIAMETER = 66.0mm
NOMINAL THICKNESS = 5.36mm

D

D

NOTE :

1. THE DIMENSIONS SHOWN ON THIS DRAWING WERE TAKEN FROM PIRELLI CABLE DRAWING 11275710/D7.
2. OIL VOLUME = 2.91 LITRES/m.

7	66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED	P.A.T.	R.KELLY	R.KELLY	25.08.2009	
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6	44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30	P.A.T.	R.KELLY	R.KELLY	05.03.2009	
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5	CABLES ADDED FOR WESTERN REGION	P.A.V.	R.KELLY	R.KELLY	03.09.2008	
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REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.
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AUTH: R. KELLY

DATE: 17.05.2007

CHKD: R. KELLY

DATE: 17.05.2007

DRAWN: P.A. VERMAAK

DATE: 17.05.2007

132kV OIL-FILLED
400mm SQ. COPPER
SINGLE CORE CABLE
PRYSMIAN (PIRELLI)

F

F

D-DT-0881

SET

SHEET

REVISION

38

6

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4 A4L

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A

A

500 SQ. AL CONDUCTOR
NOMINAL DIAMETER = 26.1mm

CONDUCTOR SCREEN
CARBON PAPER

B

B

PAPER INSULATION
NOMINAL DIAMETER = 39.8mm
NOMINAL THICKNESS = 6.2mm

INSULATION SCREEN
CARBON PAPER AND
ALUMINIUM TAPE

C

C

BINDER

CLEARANCE

CORRUGATED ALUMINIUM SHEATH
NOMINAL DIAMETER = 54.6mm
NOMINAL THICKNESS = 1.35mm

FINISH - PVC AND GRAPHITE
NOMINAL DIAMETER = 61.5mm
NOMINAL THICKNESS = 3mm

D

D

NOTE :

1. THE DIMENSIONS SHOWN ON THIS DRAWING WERE TAKEN FROM PIRELLI CABLE DRAWING 11275710/D6.
2. OIL VOLUME = 3.0 LITRES/m.

E

E

7	66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED	P.A.T.	R.KELLY	R.KELLY	25.08.2009	
6	44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30	P.A.T.	R.KELLY	R.KELLY	05.03.2009	
5	CABLES ADDED FOR WESTERN REGION	P.A.V.	R.KELLY	R.KELLY	03.09.2008	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.

F

F



AUTH: R. KELLY

DATE: 17.05.2007

CHKD: R. KELLY

DATE: 17.05.2007

DRAWN: P.A. VERMAAK

DATE: 17.05.2007

88kV OIL FILLED
500mm SQ. ALUMINIUM
SINGLE CORE CABLE
PRYSMIAN (PIRELLI)

D-DT-0881

SET

SHEET

REVISION

38

7

7

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400 SQ. AL CONDUCTOR
NOMINAL DIAMETER = 23.15mm

CONDUCTOR SCREEN
CARBON PAPER

B

B

PAPER INSULATION
NOMINAL DIAMETER = 33.3mm
NOMINAL THICKNESS = 4.5mm

INSULATION SCREEN
CARBON PAPER AND
ALUMINIUM TAPE

C

C

BINDER

CLEARANCE

CORRUGATED ALUMINIUM SHEATH
NOMINAL DIAMETER = 47.2mm
NOMINAL THICKNESS = 1.3mm

FINISH - PVC AND GRAPHITE
NOMINAL DIAMETER = 53.6mm
NOMINAL THICKNESS = 2.8mm

D

D

NOTE :

1. THE DIMENSIONS SHOWN ON THIS DRAWING WERE TAKEN FROM PIRELLI CABLE DRAWING 11275710/D5.
2. OIL VOLUME = 2.51 LITRES/m.

7	66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED	P.A.T.	R.KELLY	R.KELLY	25.08.2009	
6	44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30	P.A.T.	R.KELLY	R.KELLY	05.03.2009	
5	CABLES ADDED FOR WESTERN REGION	P.A.V.	R.KELLY	R.KELLY	03.09.2008	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.

E

E



AUTH: R. KELLY

DATE: 17.05.2007

CHKD: R. KELLY

DATE: 17.05.2007

DRAWN: P.A. VERMAAK

DATE: 17.05.2007

44kV OIL FILLED
400mm SQ. ALUMINIUM
SINGLE CORE CABLE
PRYSMIAN (PIRELLI)

F

F

D-DT-0881

SET

SHEET

REVISION

38

8

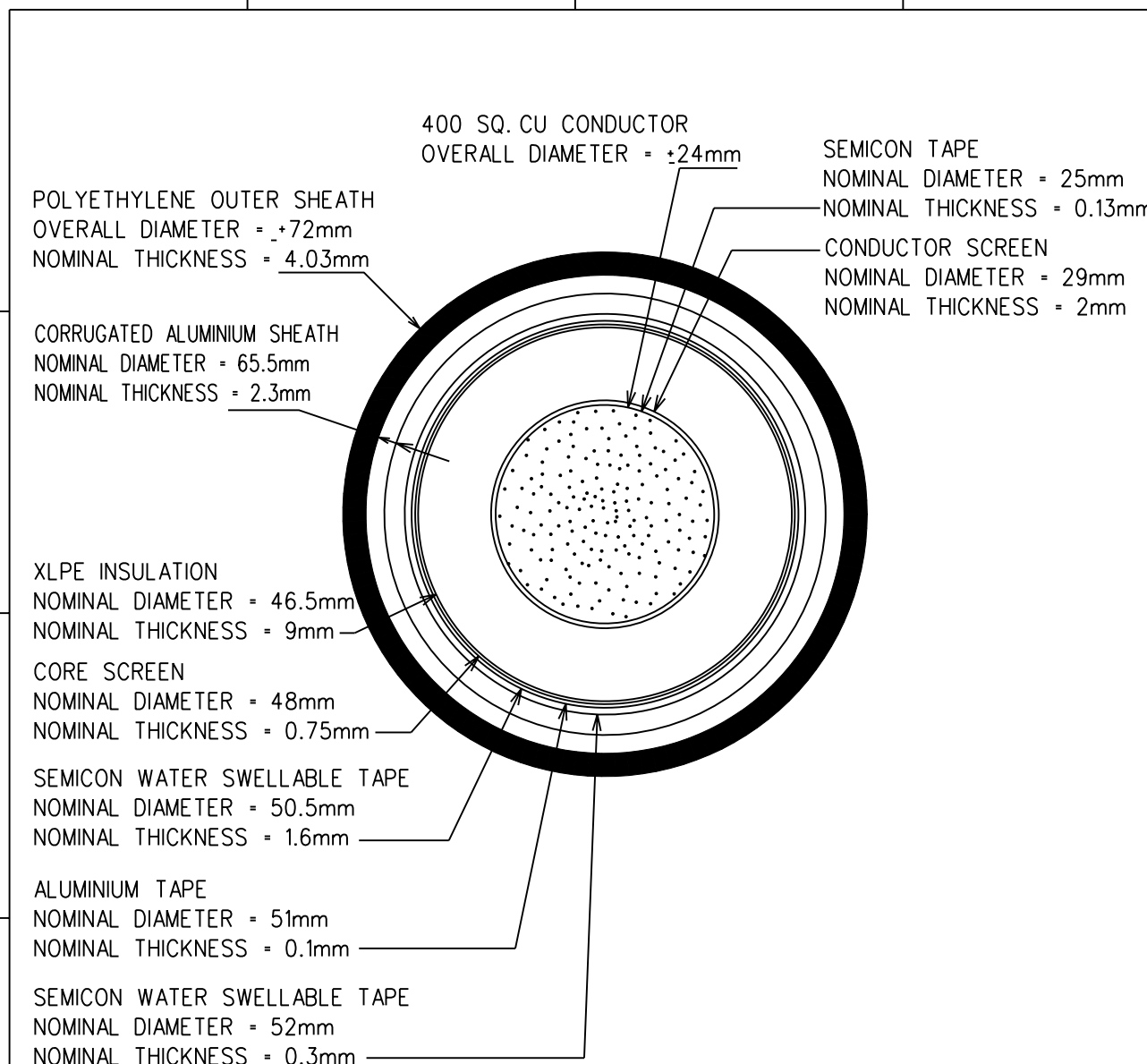
7

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NOTE :

1. THE DIMENSIONS SHOWN ON THIS DRAWING WERE TAKEN FROM AFRICAN CABLE DRAWING PT220047
2. STANDARD STRESS DESIGN.

7	66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED	P.A.T.	R.KELLY	R.KELLY	25.08.2009	
6	44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30	P.A.T.	R.KELLY	R.KELLY	05.03.2009	
5	CABLES ADDED FOR WESTERN REGION	P.A.V.	R.KELLY	R.KELLY	03.09.2008	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.



AUTH: R. KELLY

DATE: 17.05.2007

CHKD: R. KELLY

DATE: 17.05.2007

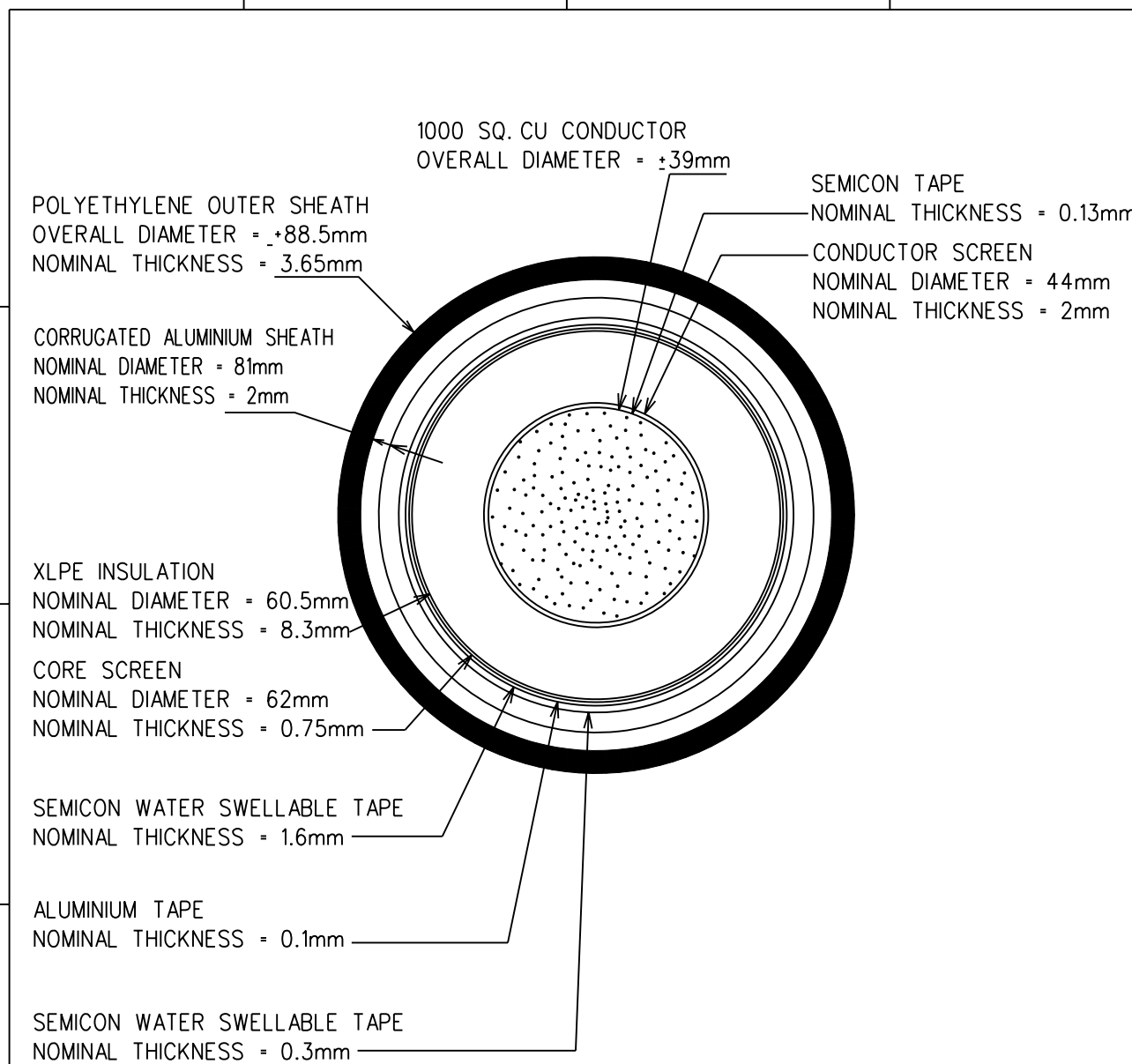
DRAWN: P.A. VERMAAK

DATE: 17.05.2007

44kV XLPE
400mm SQ. COPPER
SINGLE CORE CABLE
(CBIELECTRIC AFRICAN CABLES)

D-DT-0881

SET	SHEET	REVISION
38	9	7



NOTE :

1. THE DIMENSIONS SHOWN ON THIS DRAWING WERE TAKEN FROM AFRICAN CABLE DRAWING PT220080.
2. STANDARD STRESS DESIGN.

7	66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED	P.A.T.	R.KELLY	R.KELLY	25.08.2009	
6	44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30	P.A.T.	R.KELLY	R.KELLY	05.03.2009	
5	CABLES ADDED FOR WESTERN REGION	P.A.V.	R.KELLY	R.KELLY	03.09.2008	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.



AUTH: R. KELLY

DATE: 17.05.2007

CHKD: R. KELLY

DATE: 17.05.2007

DRAWN: P.A. VERMAAK

DATE: 17.05.2007

44kV XLPE
1000mm SQ. COPPER
SINGLE CORE CABLE
(CBIELECTRIC AFRICAN CABLES)

D-DT-0881

SET SHEET REVISION

38

10

7

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A

POLYETHYLENE OUTER SHEATH
OVERALL DIAMETER = $\pm 99\text{mm}$
NOMINAL THICKNESS = 4mm

1000 SQ. AL CONDUCTOR
OVERALL DIAMETER = $\pm 40\text{mm}$

SEMICON TAPE
NOMINAL THICKNESS = 0.13mm

CONDUCTOR SCREEN
NOMINAL DIAMETER = 44mm
NOMINAL THICKNESS = 2mm

CORRUGATED ALUMINIUM SHEATH
NOMINAL DIAMETER = 91mm
NOMINAL THICKNESS = 2.2mm

B

XLPE INSULATION
NOMINAL DIAMETER = 70mm
NOMINAL THICKNESS = 13mm

CORE SCREEN
NOMINAL DIAMETER = 71.5mm
NOMINAL THICKNESS = 0.75mm

C

SEMICON WATER SWELLABLE TAPE
NOMINAL THICKNESS = 1.6mm

ALUMINIUM TAPE
NOMINAL THICKNESS = 0.1mm

SEMICON WATER SWELLABLE TAPE
NOMINAL THICKNESS = 0.3mm

D

NOTE :

1. THE DIMENSIONS SHOWN ON THIS DRAWING WERE TAKEN FROM AFRICAN CABLE DRAWING PT220069.
2. STANDARD STRESS DESIGN.

E

7	66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED	P.A.T.	R.KELLY	R.KELLY	25.08.2009	
6	44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30	P.A.T.	R.KELLY	R.KELLY	05.03.2009	
5	CABLES ADDED FOR WESTERN REGION	P.A.V.	R.KELLY	R.KELLY	03.09.2008	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.

F



AUTH: R. KELLY

DATE: 17.05.2007

CHKD: R. KELLY

DATE: 17.05.2007

DRAWN: P.A. VERMAAK

DATE: 17.05.2007

88kV XLPE
1000mm SQ. ALUMINIUM
SINGLE CORE CABLE
(CBIELECTRIC AFRICAN CABLES)

D-DT-0881

SET

SHEET

REVISION

38

11

7

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A4L

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A

POLYETHYLENE OUTER SHEATH
OVERALL DIAMETER = $\pm 98\text{mm}$
NOMINAL THICKNESS = 3.9mm

1000 SQ. CU CONDUCTOR
OVERALL DIAMETER = $\pm 40\text{mm}$

SEMICON TAPE
NOMINAL THICKNESS = 0.13mm

CONDUCTOR SCREEN
NOMINAL DIAMETER = 44mm
NOMINAL THICKNESS = 2mm

CORRUGATED ALUMINIUM SHEATH
NOMINAL DIAMETER = 90mm
NOMINAL THICKNESS = 2.2mm

B

B

XLPE INSULATION
NOMINAL DIAMETER = 69.5mm
NOMINAL THICKNESS = 12.7mm

CORE SCREEN
NOMINAL DIAMETER = 72mm
NOMINAL THICKNESS = 0.75mm

C

C

SEMICON WATER SWELLABLE TAPE
NOMINAL THICKNESS = 0.3mm

ALUMINIUM TAPE
NOMINAL THICKNESS = 0.1mm

SEMICON WATER SWELLABLE TAPE
NOMINAL THICKNESS = 1.6mm

D

D

NOTE :

1. THE DIMENSIONS SHOWN ON THIS DRAWING WERE TAKEN FROM AFRICAN CABLE DRAWING PT220092.
2. STANDARD STRESS DESIGN.

7	66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED	P.A.T.	R.KELLY	R.KELLY	25.08.2009	
6	44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30	P.A.T.	R.KELLY	R.KELLY	05.03.2009	
5	CABLES ADDED FOR WESTERN REGION	P.A.V.	R.KELLY	R.KELLY	03.09.2008	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.

E

E



AUTH: R. KELLY

DATE: 17.05.2007

CHKD: R. KELLY

DATE: 17.05.2007

DRAWN: P.A. VERMAAK

DATE: 17.05.2007

88kV XLPE
1000mm SQ. COPPER
SINGLE CORE CABLE
(CBIELECTRIC AFRICAN CABLES)

F

F

D-DT-0881

SET	SHEET	REVISION
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38

12

7

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4 A4L

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A

A

400 SQ. CU CONDUCTOR
OVERALL DIAMETER = $\pm 24\text{mm}$

POLYETHYLENE OUTER SHEATH
OVERALL DIAMETER = $\pm 98\text{mm}$
NOMINAL THICKNESS = 4mm

CONDUCTOR SCREEN
NOMINAL DIAMETER = 26mm
NOMINAL THICKNESS = 1mm

B

B

CORRUGATED ALUMINIUM SHEATH
OUTER NOMINAL DIAMETER = 90mm
NOMINAL THICKNESS = 2.6mm

C

C

EPR INSULATION
NOMINAL DIAMETER = 72mm
NOMINAL THICKNESS = 23mm

CORE SCREEN
OUTER NOMINAL DIAMETER = 75mm
NOMINAL THICKNESS = 1.5mm

D

D

NOTE :

1. THE DIMENSIONS SHOWN ON THIS DRAWING WERE TAKEN FROM AN ACTUAL CABLE OFF-CUT FROM CROYDON MTS.

7	66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED	P.A.T.	R.KELLY	R.KELLY	25.08.2009	
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6	44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30	P.A.T.	R.KELLY	R.KELLY	05.03.2009	
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5	CABLES ADDED FOR WESTERN REGION	P.A.V.	R.KELLY	R.KELLY	03.09.2008	
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E

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REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.
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AUTH: R. KELLY

DATE: 17.05.2007

CHKD: R. KELLY

DATE: 17.05.2007

DRAWN: P.A. VERMAAK

DATE: 17.05.2007

132kV EPR

400mm SQ. COPPER
SINGLE CORE CABLE
PRYSMIAN (PIRELLI)

F

F

D-DT-0881

SET

SHEET

REVISION

38

13

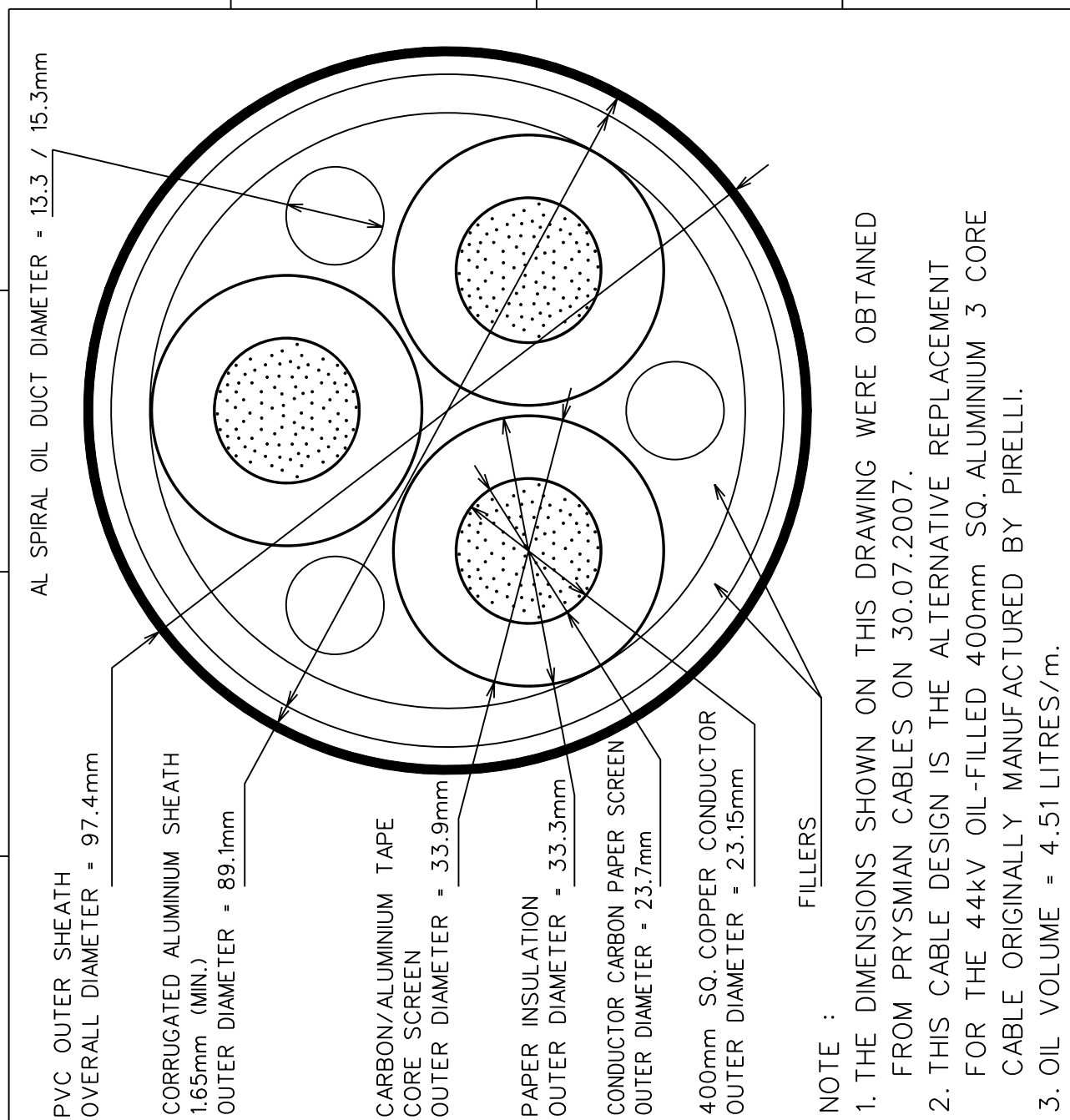
7

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4 A4L



7	66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED	P.A.T.	R.KELLY	R.KELLY	25.08.2009	
6	44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30	P.A.T.	R.KELLY	R.KELLY	05.03.2009	
5	CABLES ADDED FOR WESTERN REGION	P.A.V.	R.KELLY	R.KELLY	03.09.2008	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.

		44kV OIL-FILLED 400mm SQ.COPPER THREE CORE CABLE PRYSMIAN (PIRELLI)			
AUTH: R. KELLY					
DATE: 17.05.2007					
CHKD: R. KELLY					
DATE: 17.05.2007		D-DT-0881	SET	SHEET	REVISION
DRAWN: P.A. VERMAAK			38	14	7
DATE: 17.05.2007					

1

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A

A

240 SQ. CU CONDUCTOR
OVERALL DIAMETER = $\pm 18.6\text{mm}$

POLYETHYLENE OUTER SHEATH (LLDPE)
OVERALL DIAMETER = $\pm 73.6\text{mm}$
NOMINAL THICKNESS = 3.0mm

CONDUCTOR SCREEN
NOMINAL DIAMETER = 20.0mm
NOMINAL THICKNESS = 1.0mm

B

B

ALUMINIUM SHEATH
OUTER NOMINAL DIAMETER = 64.6mm
NOMINAL THICKNESS = 0.3mm

COPPER WIRE SCREEN
NOMINAL THICKNESS = 1.2mm
(1mm DIA. WIRES x 128 OFF)

XLPE INSULATION
NOMINAL DIAMETER = 58.5mm
NOMINAL THICKNESS = 19.0mm

C

C

CORE SCREEN
OUTER NOMINAL DIAMETER = 61.4mm
NOMINAL THICKNESS = 1.0mm

WATER SWELLABLE TAPE

NOTE :

1. THE DIMENSIONS SHOWN ON THIS DRAWING WERE TAKEN FROM AN ACTUAL CABLE OFF-CUT FROM THE UVONGO - MONTREAUX FEEDER.
2. CABLE SHEATH MARKING "2XS(FL)2Y-51/88 (MAX.97) kV 1 x 240/90mm"
3. ALUMINIUM POLYETHYLENE LAMINATE (APL) SHEATH DESIGN.
4. MANUFACTURED BY FULGOR CABLE.

D

D

7	66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED	P.A.T.	R.KELLY	R.KELLY	25.08.2009	
6	44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30	P.A.T.	R.KELLY	R.KELLY	05.03.2009	
5	CABLES ADDED FOR WESTERN REGION	P.A.V.	R.KELLY	R.KELLY	03.09.2008	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.

E

E



AUTH: R. KELLY

DATE: 17.05.2007

CHKD: R. KELLY

DATE: 17.05.2007

DRAWN: P.A. VERMAAK

DATE: 17.05.2007

88kV XLPE
240mm SQ. COPPER
SINGLE CORE CABLE WITH APL SHEATH
FULGOR CABLE

F

F

D-DT-0881

SET	SHEET	REVISION
38	15	7

1

2

3

4 A4L

1

2

3

4

A

POLYETHYLENE OUTER SHEATH
OVERALL DIAMETER = $\pm 90.5\text{mm}$
NOMINAL THICKNESS = 4.3mm

500 SQ. AL CONDUCTOR
OVERALL DIAMETER = $\pm 26.5\text{mm}$

SEMICON TAPE
NOMINAL THICKNESS = 0.13mm

CONDUCTOR SCREEN
NOMINAL DIAMETER = 28.13mm
NOMINAL THICKNESS = 1.5mm

CORRUGATED ALUMINIUM SHEATH
NOMINAL DIAMETER = 81.5mm
NOMINAL THICKNESS = 2.5mm

B

XLPE INSULATION
NOMINAL DIAMETER = 59.5mm
NOMINAL THICKNESS = 14.5mm

CORE SCREEN
NOMINAL DIAMETER = 62.5mm
NOMINAL THICKNESS = 1.4mm

C

SEMICON WATER SWELLABLE TAPE
NOMINAL THICKNESS = 0.3mm

ALUMINIUM TAPE
NOMINAL THICKNESS = 0.1mm

SEMICON WATER SWELLABLE TAPE
NOMINAL THICKNESS = 1.6mm

D

NOTE :

1. THE DIMENSIONS SHOWN ON THIS DRAWING WERE TAKEN FROM CBIELECTRIC AFRICAN CABLES DRAWING F2NA1500 068.
2. STANDARD STRESS DESIGN.

7	66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED	P.A.T.	R.KELLY	R.KELLY	25.08.2009	
6	44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30	P.A.T.	R.KELLY	R.KELLY	05.03.2009	
5	CABLES ADDED FOR WESTERN REGION	P.A.V.	R.KELLY	R.KELLY	03.09.2008	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.

E



AUTH: R. KELLY

DATE: 17.05.2007

CHKD: R. KELLY

DATE: 17.05.2007

DRAWN: P.A. VERMAAK

DATE: 17.05.2007

88kV XLPE
500mm SQ. ALUMINIUM
SINGLE CORE CABLE
(CBIELECTRIC AFRICAN CABLES)

F

D-DT-0881

SET

SHEET

REVISION

38

16

7

1

2

3

4 A4L

1

2

3

4

A

POLYETHYLENE OUTER SHEATH
OVERALL DIAMETER = $\pm 103.5\text{mm}$
NOMINAL THICKNESS = 4.6mm

500 SQ. AL CONDUCTOR
OVERALL DIAMETER = $\pm 26.5\text{mm}$

SEMICON TAPE
NOMINAL THICKNESS = 0.13mm

CONDUCTOR SCREEN
NOMINAL DIAMETER = 31.5mm
NOMINAL THICKNESS = 2.0mm

CORRUGATED ALUMINIUM SHEATH
NOMINAL DIAMETER = 94.0mm
NOMINAL THICKNESS = 2.5mm

B

XLPE INSULATION
NOMINAL DIAMETER = 71.5mm
NOMINAL THICKNESS = 20.0mm

CORE SCREEN
NOMINAL DIAMETER = 74.0mm
NOMINAL THICKNESS = 1.6mm

C

SEMICON WATER SWELLABLE TAPE
NOMINAL THICKNESS = 0.3mm

ALUMINIUM TAPE
NOMINAL THICKNESS = 0.1mm

SEMICON WATER SWELLABLE TAPE
NOMINAL THICKNESS = 1.6mm

D

NOTE :

1. THE DIMENSIONS SHOWN ON THIS DRAWING WERE TAKEN FROM CBIELECTRIC AFRICAN CABLES DRAWING F2PA1500068.
2. STANDARD STRESS DESIGN.

7	66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED	P.A.T.	R.KELLY	R.KELLY	25.08.2009	
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6	44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30	P.A.T.	R.KELLY	R.KELLY	05.03.2009	
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5	CABLES ADDED FOR WESTERN REGION	P.A.V.	R.KELLY	R.KELLY	03.09.2008	
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E

REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.
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AUTH: R. KELLY

DATE: 17.05.2007

CHKD: R. KELLY

DATE: 17.05.2007

DRAWN: P.A. VERMAAK

DATE: 17.05.2007

132kV XLPE
500mm SQ. ALUMINIUM
SINGLE CORE CABLE
(CBIELECTRIC AFRICAN CABLES)

F

D-DT-0881

SET	SHEET	REVISION
-----	-------	----------

38

17

7

1

2

3

4 A4L

1

2

3

4

A

POLYETHYLENE OUTER SHEATH
OVERALL DIAMETER = $\pm 108.5\text{mm}$
NOMINAL THICKNESS = 4.8mm

1000 SQ. CU CONDUCTOR
OVERALL DIAMETER = $\pm 39.0\text{mm}$

SEMICON TAPE
NOMINAL THICKNESS = 0.13mm

CONDUCTOR SCREEN
NOMINAL DIAMETER = 43.0mm
NOMINAL THICKNESS = 1.5mm

CORRUGATED ALUMINIUM SHEATH
NOMINAL DIAMETER = 98.5mm
NOMINAL THICKNESS = 2.5mm

B

XLPE INSULATION
NOMINAL DIAMETER = 75.5mm
NOMINAL THICKNESS = 16.0mm

CORE SCREEN
NOMINAL DIAMETER = 78.5mm
NOMINAL THICKNESS = 1.4mm

C

SEMICON WATER SWELLABLE TAPE
NOMINAL THICKNESS = 0.3mm

ALUMINIUM TAPE
NOMINAL THICKNESS = 0.1mm

SEMICON WATER SWELLABLE TAPE
NOMINAL THICKNESS = 1.6mm

D

NOTE :

1. THE DIMENSIONS SHOWN ON THIS DRAWING WERE TAKEN FROM CBIELECTRIC AFRICAN CABLES DRAWING F2PC199968 HS.
2. HIGH STRESS DESIGN.

7	66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED	P.A.T.	R.KELLY	R.KELLY	25.08.2009	
6	44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30	P.A.T.	R.KELLY	R.KELLY	05.03.2009	
5	CABLES ADDED FOR WESTERN REGION	P.A.V.	R.KELLY	R.KELLY	03.09.2008	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.

E



AUTH: R. KELLY

DATE: 17.05.2007

CHKD: R. KELLY

DATE: 17.05.2007

DRAWN: P.A. VERMAAK

DATE: 17.05.2007

132kV XLPE
1000mm SQ. COPPER
SINGLE CORE CABLE
(CBIELECTRIC AFRICAN CABLES)

F

D-DT-0881

SET SHEET REVISION

38

18

7

1

2

3

4 A4L

1

2

3

4

A

A

CARBON PAPER
CONDUCTOR SCREEN
OVERALL DIAMETER = $\pm 32.3\text{mm}$

PE OUTER SHEATH
OVERALL DIAMETER = $\pm 68.4\text{mm}$
NOMINAL THICKNESS = 3.0mm

630mm SQ. COPPER CONDUCTOR
OVERALL DIAMETER = $\pm 31.1\text{mm}$

B

B

CORRUGATED ALUMINIUM SHEATH
1.4mm (MIN.)
OUTER DIAMETER = $\pm 61.5\text{mm}$

CARBON PAPER,
METALLISED PAPER
CORE SCREEN
OUTER DIAMETER = $\pm 49.4\text{mm}$

BINDER
OUTER DIAMETER = $\pm 50.1\text{mm}$

C

C

PAPER INSULATION
OUTER DIAMETER = $\pm 48.7\text{mm}$
MIN. THICKNESS = 7.8mm

OIL DUCT
DIAMETER = $\pm 12\text{mm}$

D

D

NOTE :

1. THE DIMENSIONS SHOWN ON THIS DRAWING WERE OBTAINED FROM PRYSMIAN DRAWING NO. HP14892/D4.
2. OIL VOLUME = 2.91 LITRES/m.

E

E

7	66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED	P.A.T.	R.KELLY	R.KELLY	25.08.2009	
6	44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30	P.A.T.	R.KELLY	R.KELLY	05.03.2009	
5	CABLES ADDED FOR WESTERN REGION	P.A.V.	R.KELLY	R.KELLY	03.09.2008	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.

F

F



AUTH: R. KELLY

DATE: 17.05.2007

CHKD: R. KELLY

DATE: 17.05.2007

DRAWN: P.A. VERMAAK

DATE: 17.05.2007

132kV OIL-FILLED
630mm SQ. COPPER
SINGLE CORE CABLE
(HITACHI)

D-DT-0881

SET

SHEET

REVISION

38

19

7

1

2

3

4 A4L

1

2

3

4

A

B

C

D

BITUMEN IMPREGRATED HESSIAN OUTER SHEATH
OR PVC OUTER SHEATH
OVERALL DIAMETER = 120mm

GALVANISED STEEL TAPE ARMOUR
OUTER DIAMETER = 115mm

LEAD SHEATH
OUTER DIAMETER = 46mm

CARBON CORE SCREEN
OUTER DIAMETER = 40mm

PAPER INSULATION
OUTER DIAMETER = 39.6mm

CONDUCTOR SCREEN
OUTER DIAMETER = 23.9mm

185mm SQ. COPPER CONDUCTOR
OUTER DIAMETER = 19.4mm

FILLER

NOTE :

THE DIMENSIONS SHOWN ON THIS DRAWING WERE OBTAINED
FROM A CABLE SAMPLE ON 22.01.2008.

A

B

C

D

7 66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED P.A.T. R.KELLY R.KELLY 25.08.2009

6 44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30 P.A.T. R.KELLY R.KELLY 05.03.2009

5 CABLES ADDED FOR WESTERN REGION P.A.V. R.KELLY R.KELLY 03.09.2008

REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.
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AUTH: R. KELLY

DATE: 17.05.2007

CHKD: R. KELLY

DATE: 17.05.2007

DRAWN: P.A. VERMAAK

DATE: 17.05.2007

44kV IMPREGNATED PAPER INSULATED
185mm SQ. COPPER
THREE CORE HSL CABLE

D-DT-0881

SET

38

SHEET

20

REVISION

7

E

E

F

F

1

2

3

4

A4L

1

2

3

4

A

A

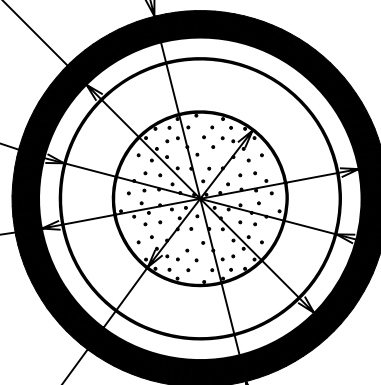
PVC OUTER SHEATH
OVERALL DIAMETER = 52mm

LEAD SHEATH
OUTER DIAMETER = 45mm

CARBON CORE SCREEN
OUTER DIAMETER = 40mm

PAPER INSULATION
OUTER DIAMETER = 38mm

185mm SQ. COPPER CONDUCTOR
OUTER DIAMETER = 16.4mm



B

B

C

C

D

D

NOTE :
THE DIMENSIONS SHOWN ON THIS DRAWING WERE OBTAINED
FROM A CABLE SAMPLE ON 22.01.2008.

7	66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED	P.A.T.	R.KELLY	R.KELLY	25.08.2009	
6	44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30	P.A.T.	R.KELLY	R.KELLY	05.03.2009	
5	CABLES ADDED FOR WESTERN REGION	P.A.V.	R.KELLY	R.KELLY	03.09.2008	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.

E

E



44kV IMPREGNATED PAPER INSULATED
185mm SQ. COPPER
SINGLE CORE CABLE

AUTH: R. KELLY

DATE: 17.05.2007

CHKD: R. KELLY

DATE: 17.05.2007

DRAWN: P.A. VERMAAK

DATE: 17.05.2007

F

F

D-DT-0881

SET

SHEET

REVISION

38

21

7

1

2

3

4 A4L

1

2

3

4

A

POLYETHYLENE OUTER SHEATH
OVERALL DIAMETER = $\pm 107.0\text{mm}$
NOMINAL THICKNESS = 4.8mm

1000 SQ. AL CONDUCTOR
OVERALL DIAMETER = $\pm 39.0\text{mm}$

SEMICON TAPE
NOMINAL THICKNESS = 0.13mm

CONDUCTOR SCREEN
NOMINAL DIAMETER = 42.5mm
NOMINAL THICKNESS = 1.3mm

CORRUGATED ALUMINIUM SHEATH
NOMINAL DIAMETER = 97.0mm
NOMINAL THICKNESS = 2.5mm

B

XLPE INSULATION
NOMINAL DIAMETER = 77.0mm
NOMINAL THICKNESS = 16.0mm

CORE SCREEN
NOMINAL DIAMETER = 78.5mm
NOMINAL THICKNESS = 1.2mm

C

SEMICON WATER SWELLABLE TAPE
NOMINAL THICKNESS = 0.3mm

ALUMINIUM TAPE
NOMINAL THICKNESS = 0.1mm

SEMICON WATER SWELLABLE TAPE
NOMINAL THICKNESS = 1.6mm

D

NOTE :

1. THE DIMENSIONS SHOWN ON THIS DRAWING WERE TAKEN FROM CBIELECTRIC AFRICAN CABLES DRAWING F2PA1999068 HS.
2. HIGH STRESS DESIGN.

7	66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED	P.A.T.	R.KELLY	R.KELLY	25.08.2009	
6	44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30	P.A.T.	R.KELLY	R.KELLY	05.03.2009	
5	CABLES ADDED FOR WESTERN REGION	P.A.V.	R.KELLY	R.KELLY	03.09.2008	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.

E



AUTH: R. KELLY

DATE: 17.05.2007

CHKD: R. KELLY

DATE: 17.05.2007

DRAWN: P.A. VERMAAK

DATE: 17.05.2007

132kV XLPE
1000mm SQ. ALUMINIUM
SINGLE CORE CABLE
(CBIELECTRIC AFRICAN CABLES)

F

D-DT-0881

SET SHEET REVISION

38

22

7

1

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3

4 A4L

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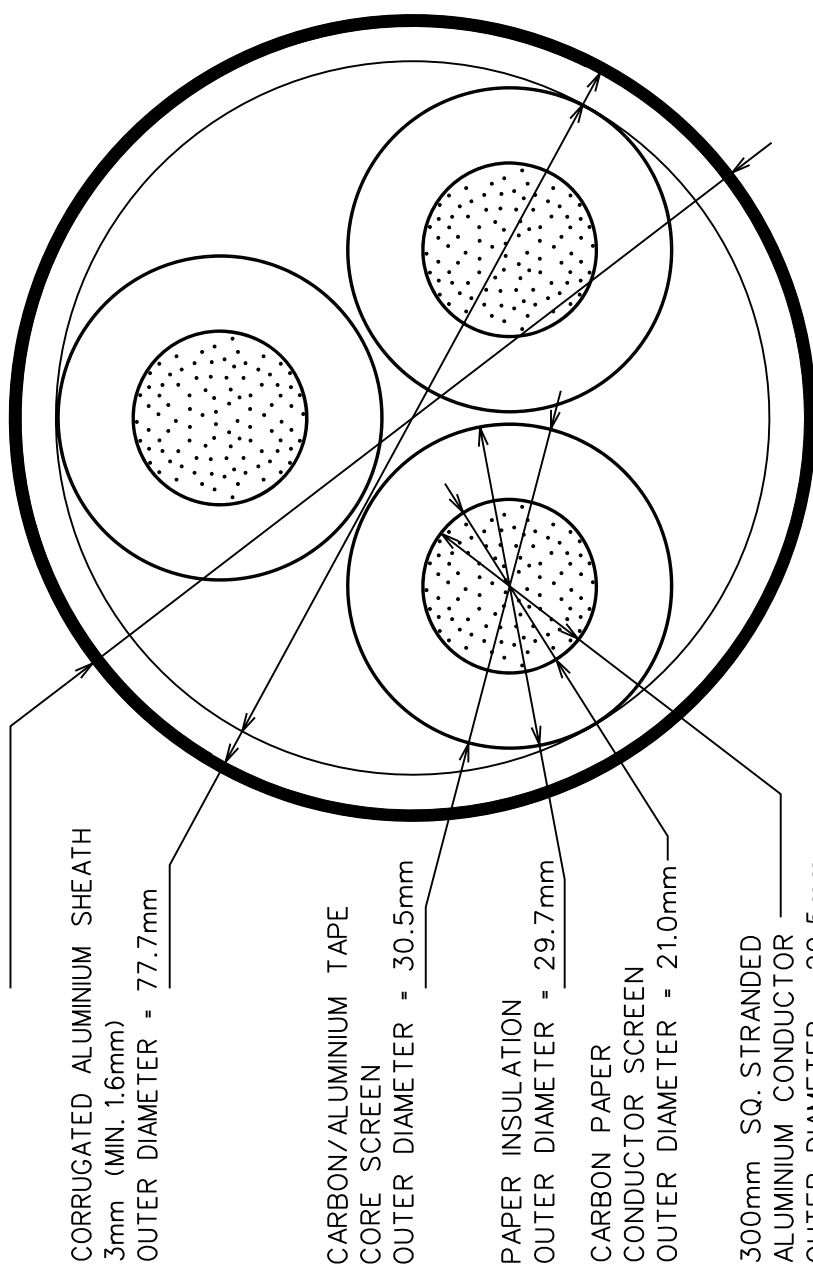
B

C

D

E

F



NOTE :

1. THE DIMENSIONS SHOWN ON THIS DRAWING WERE OBTAINED FROM A CABLE SAMPLE ON 01.07.2008.
2. IMPREGNATION COMPOUND (OIL) = C14B.
3. OIL VOLUME = 2.3 LITRES/m.

7	66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED	P.A.T.	R.KELLY	R.KELLY	25.08.2009	
6	44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30	P.A.T.	R.KELLY	R.KELLY	05.03.2009	
5	CABLES ADDED FOR WESTERN REGION	P.A.V.	R.KELLY	R.KELLY	03.09.2008	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.
 66kV OIL-FILLED 300mm SQ.ALUMINIUM THREE CORE CABLE (SUMITOMO) (CABLE RATED FOR 132kV)						
D-DT-0881			SET	SHEET	REVISION	
			38	23	7	

1

2

3

4

A4L

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A

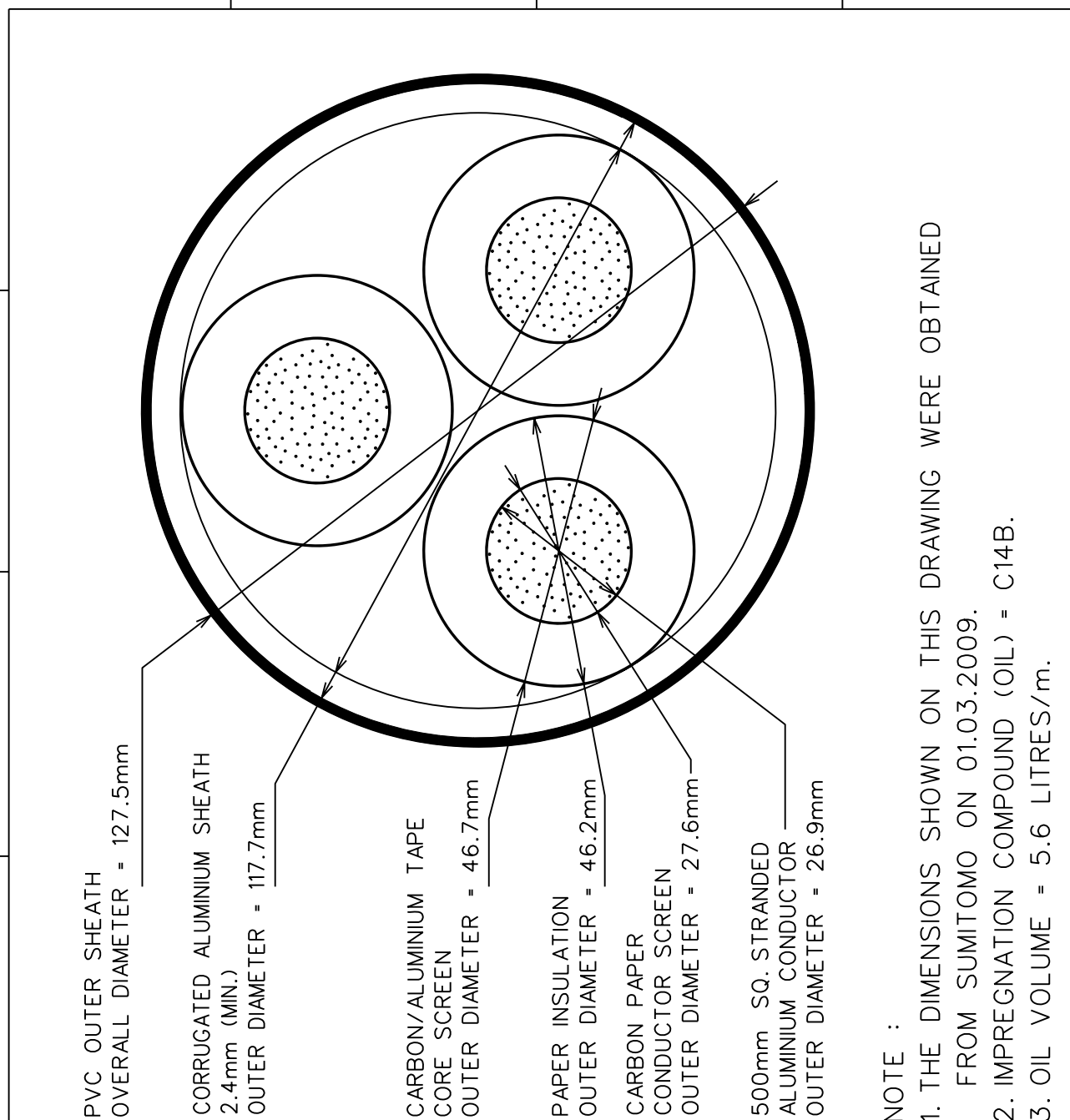
B

C

D

E

F



NOTE :

1. THE DIMENSIONS SHOWN ON THIS DRAWING WERE OBTAINED FROM SUMITOMO ON 01.03.2009.
2. IMPREGNATION COMPOUND (OIL) = C14B.
3. OIL VOLUME = 5.6 LITRES/m.

7	66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED	P.A.T.	R.KELLY	R.KELLY	25.08.2009	
6	44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30	P.A.T.	R.KELLY	R.KELLY	05.03.2009	
5	CABLES ADDED FOR WESTERN REGION	P.A.V.	R.KELLY	R.KELLY	03.09.2008	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.
 66kV OIL-FILLED 500mm SQ.ALUMINIUM THREE CORE CABLE (SUMITOMO) (CABLE RATED FOR 132kV)						
AUTH: R. KELLY DATE: 17.05.2007 CHKD: R. KELLY DATE: 17.05.2007 DRAWN: P.A. VERMAAK DATE: 17.05.2007			D-DT-0881 SET 38 SHEET 24 REVISION 7			

1

2

3

4 A4L

1

2

3

4

A

A

CARBON TAPE
CONDUCTOR SCREEN
OVERALL DIAMETER = 37.5mm

PE OUTER SHEATH
OVERALL DIAMETER = 56.3mm

710mm SQ. ALUMINIUM CONDUCTOR
OVERALL DIAMETER = 37.0mm

B

B

CORRUGATED ALUMINIUM SHEATH
1.2mm (MIN.)
OUTER DIAMETER = 50.1mm

ALUMINIUM/CARBON
CORE SCREEN
OUTER DIAMETER = 47.1mm

C

C

PAPER INSULATION
OUTER DIAMETER = 46.9mm

OIL DUCT
DIAMETER = 12mm

NOTE :

D

D

1. THE DIMENSIONS SHOWN ON THIS DRAWING WERE OBTAINED FROM SUMITOMO ON 01.03.2009.
2. IMPREGNATION COMPOUND (OIL) = C14B.
3. OIL VOLUME = 0.9 LITRES/m.

E

E

7	66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED	P.A.T.	R.KELLY	R.KELLY	25.08.2009	
6	44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30	P.A.T.	R.KELLY	R.KELLY	05.03.2009	
5	CABLES ADDED FOR WESTERN REGION	P.A.V.	R.KELLY	R.KELLY	03.09.2008	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.

F

F



AUTH: R. KELLY

DATE: 17.05.2007

CHKD: R. KELLY

DATE: 17.05.2007

DRAWN: P.A. VERMAAK

DATE: 17.05.2007

66kV OIL-FILLED
710mm SQ. ALUMINIUM
SINGLE CORE CABLE
(SUMITOMO)

D-DT-0881

SET

38

SHEET

25

REVISION

7

1

2

3

4 A4L

1

2

3

4

A

POLYETHYLENE OUTER SHEATH
OVERALL DIAMETER = 78.5mm
NOMINAL THICKNESS = 4.0mm

300 SQ. AL CONDUCTOR
OVERALL DIAMETER = 21.0mm

SEMICON TAPE
NOMINAL THICKNESS = 0.13mm

CONDUCTOR SCREEN
NOMINAL DIAMETER = 24.5mm
NOMINAL THICKNESS = 1.2mm

CORRUGATED ALUMINIUM SHEATH
NOMINAL DIAMETER = 70.5mm
NOMINAL THICKNESS = 2.5mm

B

XLPE INSULATION
NOMINAL DIAMETER = 49.5mm
NOMINAL THICKNESS = 12.5mm

C

CORE SCREEN
NOMINAL DIAMETER = 51.5mm
NOMINAL THICKNESS = 1.0mm

SEMICON WATER SWELLABLE TAPE
NOMINAL THICKNESS = 0.3mm

ALUMINIUM TAPE
NOMINAL THICKNESS = 0.1mm

SEMICON WATER SWELLABLE TAPE
NOMINAL THICKNESS = 1.6mm

D

NOTE :

1. THE DIMENSIONS SHOWN ON THIS DRAWING WERE TAKEN FROM CBIELECTRIC AFRICAN CABLES DRAWING F2MA1300068 068 R0.
2. STANDARD STRESS DESIGN.

E

7	66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED	P.A.T.	R.KELLY	R.KELLY	25.08.2009	
6	44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30	P.A.T.	R.KELLY	R.KELLY	05.03.2009	
5	CABLES ADDED FOR WESTERN REGION	P.A.V.	R.KELLY	R.KELLY	03.09.2008	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.

F



AUTH: R. KELLY

DATE: 17.05.2007

CHKD: R. KELLY

DATE: 17.05.2007

DRAWN: P.A. VERMAAK

DATE: 17.05.2007

66kV XLPE
300mm SQ. ALUMINIUM
SINGLE CORE CABLE
(CBIELECTRIC AFRICAN CABLES)

D-DT-0881

SET SHEET REVISION

38

26

7

1

2

3

4 A4L

1

2

3

4

A

POLYETHYLENE OUTER SHEATH
OVERALL DIAMETER = 73.0mm
NOMINAL THICKNESS = 4.15mm

400 SQ. AL CONDUCTOR
OVERALL DIAMETER = 24.0mm

SEMICON TAPE
NOMINAL THICKNESS = 0.13mm

CONDUCTOR SCREEN
NOMINAL DIAMETER = 27.5mm
NOMINAL THICKNESS = 1.9mm

CORRUGATED ALUMINIUM SHEATH
NOMINAL DIAMETER = 58.0mm
NOMINAL THICKNESS = 2.1mm

B

XLPE INSULATION
NOMINAL DIAMETER = 51.5mm
NOMINAL THICKNESS = 12.1mm

C

CORE SCREEN
NOMINAL DIAMETER = 54.5mm
NOMINAL THICKNESS = 1.1mm

SEMICON WATER SWELLABLE TAPE
NOMINAL THICKNESS = 1.6mm

ALUMINIUM TAPE
NOMINAL THICKNESS = 0.1mm

SEMICON WATER SWELLABLE TAPE
NOMINAL DIAMETER = 57.5mm
NOMINAL THICKNESS = 0.3mm

D

NOTE :

1. THE DIMENSIONS SHOWN ON THIS DRAWING WERE TAKEN FROM CBIELECTRIC AFRICAN CABLES DRAWING C00301.
2. STANDARD STRESS DESIGN.

E

7	66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED	P.A.T.	R.KELLY	R.KELLY	25.08.2009	
6	44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30	P.A.T.	R.KELLY	R.KELLY	05.03.2009	
5	CABLES ADDED FOR WESTERN REGION	P.A.V.	R.KELLY	R.KELLY	03.09.2008	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.

F



AUTH: R. KELLY

DATE: 17.05.2007

CHKD: R. KELLY

DATE: 17.05.2007

DRAWN: P.A. VERMAAK

DATE: 17.05.2007

66kV XLPE
400mm SQ. ALUMINIUM
SINGLE CORE CABLE
(CBIELECTRIC AFRICAN CABLES)

D-DT-0881

SET SHEET REVISION

38

27

7

1

2

3

4 A4L

1

2

3

4

A

POLYETHYLENE OUTER SHEATH
OVERALL DIAMETER = 97.6mm
NOMINAL THICKNESS = 4.6mm

1000 SQ. AL CONDUCTOR
OVERALL DIAMETER = 39.0mm

SEMICON TAPE
NOMINAL THICKNESS = 0.13mm
CONDUCTOR SCREEN
NOMINAL THICKNESS = 1.2mm

B

CORRUGATED ALUMINIUM SHEATH
NOMINAL DIAMETER = 88.5mm
NOMINAL THICKNESS = 2.6mm

XLPE INSULATION
NOMINAL DIAMETER = 65.4mm
NOMINAL THICKNESS = 11.8mm

CORE SCREEN
NOMINAL DIAMETER = 67.8mm
NOMINAL THICKNESS = 1.1mm

C

SEMICON WATER SWELLABLE TAPE
NOMINAL THICKNESS = 0.3mm

ALUMINIUM TAPE
NOMINAL THICKNESS = 0.1mm

SEMICON WATER SWELLABLE TAPE
NOMINAL THICKNESS = 1.6mm

D

NOTE :

1. THE DIMENSIONS SHOWN ON THIS DRAWING WERE TAKEN FROM CBIELECTRIC AFRICAN CABLES DRAWING C06101.
2. STANDARD STRESS DESIGN.

E

7	66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED	P.A.T.	R.KELLY	R.KELLY	25.08.2009	
6	44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30	P.A.T.	R.KELLY	R.KELLY	05.03.2009	
5	CABLES ADDED FOR WESTERN REGION	P.A.V.	R.KELLY	R.KELLY	03.09.2008	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.

F



AUTH: R. KELLY

DATE: 17.05.2007

CHKD: R. KELLY

DATE: 17.05.2007

DRAWN: P.A. VERMAAK

DATE: 17.05.2007

66kV XLPE
1000mm SQ. ALUMINIUM
SINGLE CORE CABLE
(CBIELECTRIC AFRICAN CABLES)

D-DT-0881

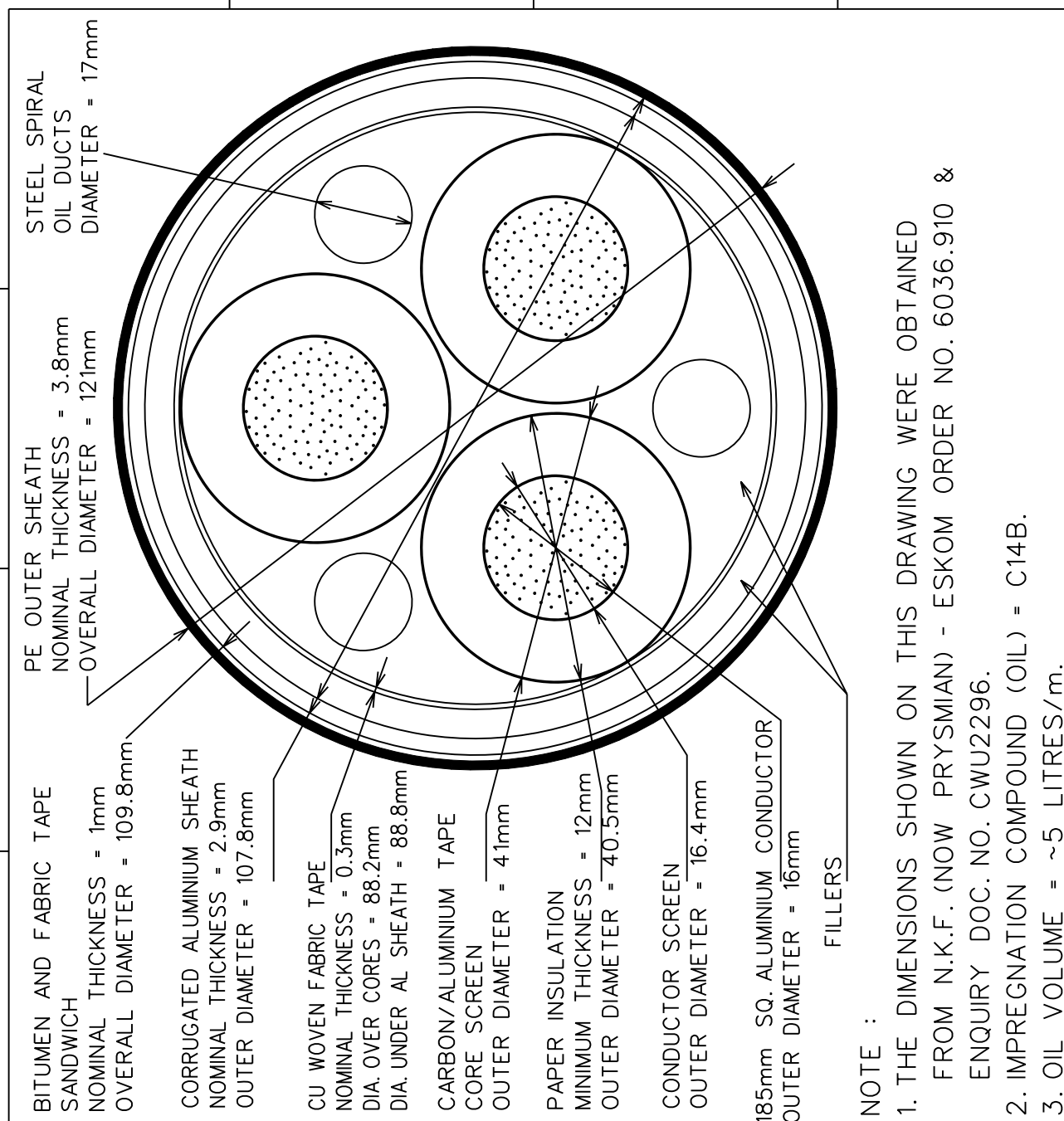
SET	SHEET	REVISION
38	28	7

1

2

3

4 A4L



NOTE :

1. THE DIMENSIONS SHOWN ON THIS DRAWING WERE OBTAINED FROM N.K.F. (NOW PRYSMIAN) - ESKOM ORDER NO. 6036.910 & ENQUIRY DOC. NO. CWU2296.
2. IMPREGNATION COMPOUND (OIL) = C14B.
3. OIL VOLUME = ~5 LITRES/m.

7	66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED	P.A.T.	R.KELLY	R.KELLY	25.08.2009	
6	44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30	P.A.T.	R.KELLY	R.KELLY	05.03.2009	
5	CABLES ADDED FOR WESTERN REGION	P.A.V.	R.KELLY	R.KELLY	03.09.2008	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.

		132kV OIL-FILLED 185mm SQ. ALUMINIUM THREE CORE CABLE (N.K.F.)			
AUTH: R. KELLY					
DATE: 17.05.2007					
CHKD: R. KELLY					
DATE: 17.05.2007		D-DT-0881	SET	SHEET	REVISION
DRAWN: P.A. VERMAAK			38	29	7
DATE: 17.05.2007					

1

2

3

4

A

A

CARBON PAPER
CONDUCTOR SCREEN
OVERALL DIAMETER = 38.5mm

PE OUTER SHEATH
NOMINAL THICKNESS = 3.3mm
OVERALL DIAMETER = 84.0mm

800mm SQ. ALUMINIUM CONDUCTOR
STRANDED
OVERALL DIAMETER = 38.0mm

B

B

CORRUGATED ALUMINIUM SHEATH
NOMINAL THICKNESS = 2mm
OUTER DIAMETER = 77.4mm

CARBON/ALUMINIUM TAPE
CORE SCREEN AND
CU WOVEN FABRIC TAPE
OUTER DIAMETER = 60.0mm

C

C

PAPER INSULATION
MINIMUM THICKNESS = 10mm
OUTER DIAMETER = 59.0mm

STEEL SPIRAL OIL DUCT
DIAMETER = 15mm

NOTE :

1. THE DIMENSIONS SHOWN ON THIS DRAWING WERE OBTAINED FROM A CABLE SAMPLE ON 01.07.2008 AND FROM N.K.F. (NOW PRYSMIAN) - ESKOM ORDER NO. 6036.910 & ENQUIRY DOC. NO. CWU2296.
2. IMPREGNATION COMPOUND (OIL) = C14B.
3. OIL VOLUME = ~4 LITRES/m.

D

D

7	66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED	P.A.T.	R.KELLY	R.KELLY	25.08.2009	
6	44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30	P.A.T.	R.KELLY	R.KELLY	05.03.2009	
5	CABLES ADDED FOR WESTERN REGION	P.A.V.	R.KELLY	R.KELLY	03.09.2008	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.

E

E



132kV OIL-FILLED
800mm SQ. ALUMINIUM
SINGLE CORE CABLE
(N.K.F.)

AUTH: R. KELLY

DATE: 17.05.2007

CHKD: R. KELLY

DATE: 17.05.2007

DRAWN: P.A. VERMAAK

DATE: 17.05.2007

F

F

D-DT-0881

SET

SHEET

REVISION

38

30

7

1

2

3

4 A4L

1

2

3

4

A

POLYETHYLENE OUTER SHEATH
OVERALL DIAMETER = 103.5mm
NOMINAL THICKNESS = 4.6mm

240 SQ. CU CONDUCTOR
OVERALL DIAMETER = 18.5mm

SEMICON TAPE
NOMINAL THICKNESS = 0.13mm

CONDUCTOR SCREEN
NOMINAL DIAMETER = 25.0mm
NOMINAL THICKNESS = 2.5mm

CORRUGATED ALUMINIUM SHEATH
NOMINAL DIAMETER = 94.0mm
NOMINAL THICKNESS = 2.5mm

B

XLPE INSULATION
NOMINAL DIAMETER = 71.0mm
NOMINAL THICKNESS = 23.0mm

CORE SCREEN
NOMINAL DIAMETER = 74.5mm
NOMINAL THICKNESS = 1.7mm

C

SEMICON WATER SWELLABLE TAPE
NOMINAL THICKNESS = 0.3mm

ALUMINIUM TAPE
NOMINAL THICKNESS = 0.1mm

SEMICON WATER SWELLABLE TAPE
NOMINAL THICKNESS = 1.6mm

D

NOTE :

1. THE DIMENSIONS SHOWN ON THIS DRAWING WERE TAKEN FROM CBIELECTRIC AFRICAN CABLES DRAWING F2PA1240 068 R0.
2. STANDARD STRESS DESIGN.

7	66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED	P.A.T.	R.KELLY	R.KELLY	25.08.2009	
6	44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30	P.A.T.	R.KELLY	R.KELLY	05.03.2009	
5	CABLES ADDED FOR WESTERN REGION	P.A.V.	R.KELLY	R.KELLY	03.09.2008	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.



AUTH: R. KELLY

DATE: 17.05.2007

CHKD: R. KELLY

DATE: 17.05.2007

DRAWN: P.A. VERMAAK

DATE: 17.05.2007

132kV XLPE
240mm SQ. COPPER
SINGLE CORE CABLE
(CBIELECTRIC AFRICAN CABLES)

D-DT-0881

SET	SHEET	REVISION
38	31	7

1

2

3

4 A4L

1

2

3

4

A

POLYETHYLENE OUTER SHEATH
OVERALL DIAMETER = 103.0mm
NOMINAL THICKNESS = 4.6mm

300 SQ. AL CONDUCTOR
OVERALL DIAMETER = 21.0mm

SEMICON TAPE
NOMINAL THICKNESS = 0.13mm
CONDUCTOR SCREEN
NOMINAL DIAMETER = 27.1mm
NOMINAL THICKNESS = 2.5mm

A

B

CORRUGATED ALUMINIUM SHEATH
NOMINAL DIAMETER = 94.0mm
NOMINAL THICKNESS = 2.5mm

XLPE INSULATION
NOMINAL DIAMETER = 70.5mm
NOMINAL THICKNESS = 22.0mm

CORE SCREEN
NOMINAL DIAMETER = 74.0mm
NOMINAL THICKNESS = 1.7mm

B

C

SEMICON WATER SWELLABLE TAPE
NOMINAL THICKNESS = 0.3mm

ALUMINIUM TAPE
NOMINAL THICKNESS = 0.1mm

SEMICON WATER SWELLABLE TAPE
NOMINAL THICKNESS = 1.6mm

C

D

NOTE :

1. THE DIMENSIONS SHOWN ON THIS DRAWING WERE TAKEN FROM CBIELECTRIC AFRICAN CABLES DRAWING F2PA130068 R0.
2. STANDARD STRESS DESIGN.

D

E

7	66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED	P.A.T.	R.KELLY	R.KELLY	25.08.2009	
6	44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30	P.A.T.	R.KELLY	R.KELLY	05.03.2009	
5	CABLES ADDED FOR WESTERN REGION	P.A.V.	R.KELLY	R.KELLY	03.09.2008	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.

E

F



AUTH: R. KELLY

DATE: 17.05.2007

CHKD: R. KELLY

DATE: 17.05.2007

DRAWN: P.A. VERMAAK

DATE: 17.05.2007

132kV XLPE
300mm SQ. ALUMINIUM
SINGLE CORE CABLE
(CBIELECTRIC AFRICAN CABLES)

F

D-DT-0881

SET	SHEET	REVISION
-----	-------	----------

38

32

7

1

2

3

4 A4L

1

2

3

4

A

POLYETHYLENE OUTER SHEATH
OVERALL DIAMETER = $\pm 108.0\text{mm}$
NOMINAL THICKNESS = 4.8mm

630 SQ. CU CONDUCTOR
OVERALL DIAMETER = $\pm 30.5\text{mm}$

SEMICON TAPE
NOMINAL THICKNESS = 0.13mm

CONDUCTOR SCREEN
NOMINAL DIAMETER = 36.0mm
NOMINAL THICKNESS = 1.8mm

CORRUGATED ALUMINIUM SHEATH
NOMINAL DIAMETER = 98.0mm
NOMINAL THICKNESS = 2.5mm

B

XLPE INSULATION
NOMINAL DIAMETER = 74.6mm
NOMINAL THICKNESS = 19.3mm

CORE SCREEN
NOMINAL DIAMETER = 78.0mm
NOMINAL THICKNESS = 1.6mm

C

SEMICON WATER SWELLABLE TAPE
NOMINAL THICKNESS = 0.3mm

ALUMINIUM TAPE
NOMINAL THICKNESS = 0.1mm

SEMICON WATER SWELLABLE TAPE
NOMINAL THICKNESS = 1.6mm

D

NOTE :

1. THE DIMENSIONS SHOWN ON THIS DRAWING WERE TAKEN FROM CBIELECTRIC AFRICAN CABLES DRAWING F2PC1630068 R1.
2. STANDARD STRESS DESIGN.

7	66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED	P.A.T.	R.KELLY	R.KELLY	25.08.2009	
6	44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30	P.A.T.	R.KELLY	R.KELLY	05.03.2009	
5	CABLES ADDED FOR WESTERN REGION	P.A.V.	R.KELLY	R.KELLY	03.09.2008	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.

E



AUTH: R. KELLY

DATE: 17.05.2007

CHKD: R. KELLY

DATE: 17.05.2007

DRAWN: P.A. VERMAAK

DATE: 17.05.2007

132kV XLPE
630mm SQ. COPPER
SINGLE CORE CABLE
(CBIELECTRIC AFRICAN CABLES)

F

D-DT-0881

SET SHEET REVISION

38

33

7

1

2

3

4 A4L

1

2

3

4

A

POLYETHYLENE OUTER SHEATH
OVERALL DIAMETER = $\pm 103.5\text{mm}$
NOMINAL THICKNESS = 4.6mm

500 SQ. CU CONDUCTOR
OVERALL DIAMETER = $\pm 26.5\text{mm}$

SEMICON TAPE
NOMINAL THICKNESS = 0.13mm
CONDUCTOR SCREEN
NOMINAL DIAMETER = 31.5mm
NOMINAL THICKNESS = 2.0mm

A

B

CORRUGATED ALUMINIUM SHEATH
NOMINAL DIAMETER = 94.0mm
NOMINAL THICKNESS = 2.5mm

B

XLPE INSULATION
NOMINAL DIAMETER = 71.5mm
NOMINAL THICKNESS = 20.0mm

CORE SCREEN
NOMINAL DIAMETER = 74.0mm
NOMINAL THICKNESS = 1.6mm

C

SEMICON WATER SWELLABLE TAPE
NOMINAL THICKNESS = 0.3mm

C

ALUMINIUM TAPE
NOMINAL THICKNESS = 0.1mm

SEMICON WATER SWELLABLE TAPE
NOMINAL THICKNESS = 1.6mm

D

NOTE :

1. THE DIMENSIONS SHOWN ON THIS DRAWING WERE TAKEN FROM CBIELECTRIC AFRICAN CABLES DRAWING F2PC1500068.
2. STANDARD STRESS DESIGN.

D

E

7	66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED	P.A.T.	R.KELLY	R.KELLY	25.08.2009	
6	44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30	P.A.T.	R.KELLY	R.KELLY	05.03.2009	
5	CABLES ADDED FOR WESTERN REGION	P.A.V.	R.KELLY	R.KELLY	03.09.2008	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.

E



AUTH: R. KELLY

DATE: 17.05.2007

CHKD: R. KELLY

DATE: 17.05.2007

DRAWN: P.A. VERMAAK

DATE: 17.05.2007

132kV XLPE
500mm SQ. COPPER
SINGLE CORE CABLE
(CBIELECTRIC AFRICAN CABLES)

F

D-DT-0881

SET SHEET REVISION

38

34

7

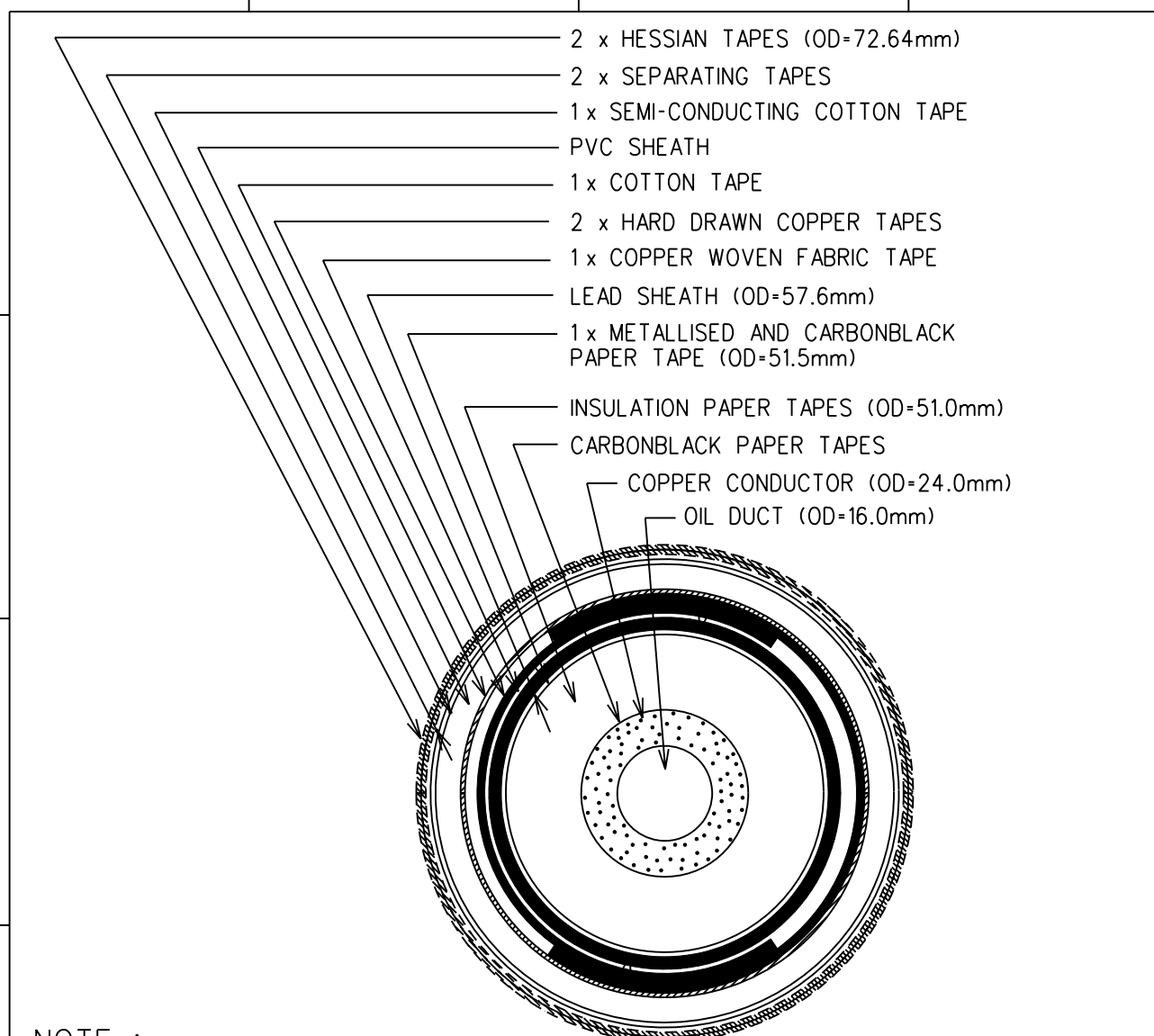
F

1

2

3

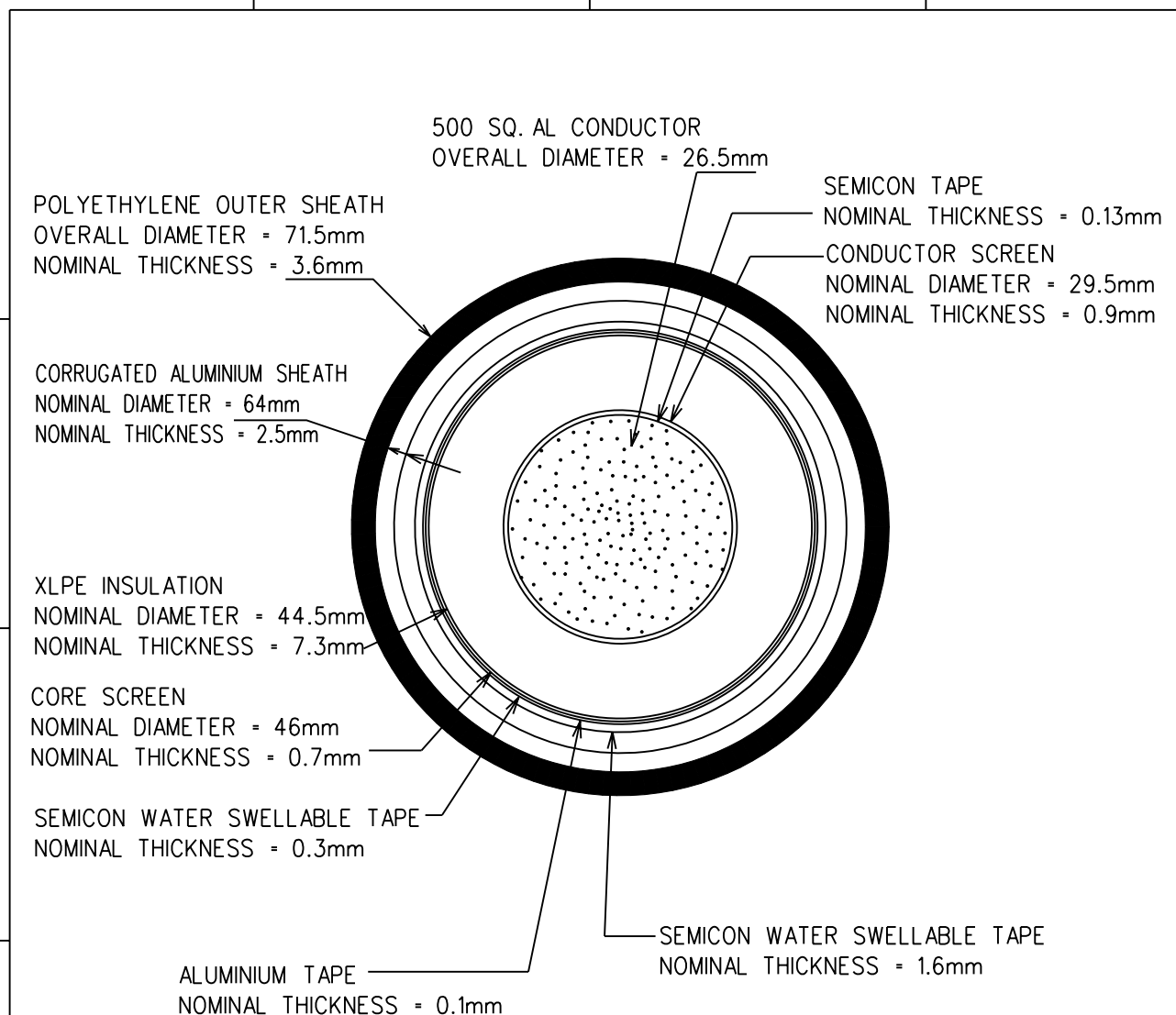
4 A4L



NOTE :

1. THE DIMENSIONS SHOWN ON THIS DRAWING WERE TAKEN FROM N.V. NEDERLANDSCHE KABELFABRIEKEN DELFT - NEDERLAND) DRAWING 132_kA_1_4.
2. IMPREGNATION COMPOUND (OIL) = C14B.
3. OIL VOLUME = ~4 LITRES/m.

7	66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED	P.A.T.	R.KELLY	R.KELLY	25.08.2009		
6	44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30	P.A.T.	R.KELLY	R.KELLY	05.03.2009		
5	CABLES ADDED FOR WESTERN REGION	P.A.V.	R.KELLY	R.KELLY	03.09.2008		
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.	
		132kV OIL-FILLED 226mm (0.35 SQ. IN.) SQ. COPPER SINGLE CORE CABLE (N.K.F.)					
AUTH: R. KELLY							
DATE: 17.05.2007							
CHKD: R. KELLY							
DATE: 17.05.2007		D-DT-0881			SET	SHEET	REVISION
DRAWN: P.A. VERMAAK					38	35	7
DATE: 17.05.2007							



NOTE :

1. THE DIMENSIONS SHOWN ON THIS DRAWING WERE TAKEN FROM AFRICAN CABLE DRAWING F2LAS1500068.
2. HIGH STRESS DESIGN.

7	66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED	P.A.T.	R.KELLY	R.KELLY	25.08.2009	
6	44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30	P.A.T.	R.KELLY	R.KELLY	05.03.2009	
5	CABLES ADDED FOR WESTERN REGION	P.A.V.	R.KELLY	R.KELLY	03.09.2008	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.



AUTH: R. KELLY

DATE: 17.05.2007

CHKD: R. KELLY

DATE: 17.05.2007

DRAWN: P.A. VERMAAK

DATE: 17.05.2007

44kV XLPE
500mm SQ. ALUMINIUM
SINGLE CORE CABLE
(CBIELECTRIC AFRICAN CABLES)

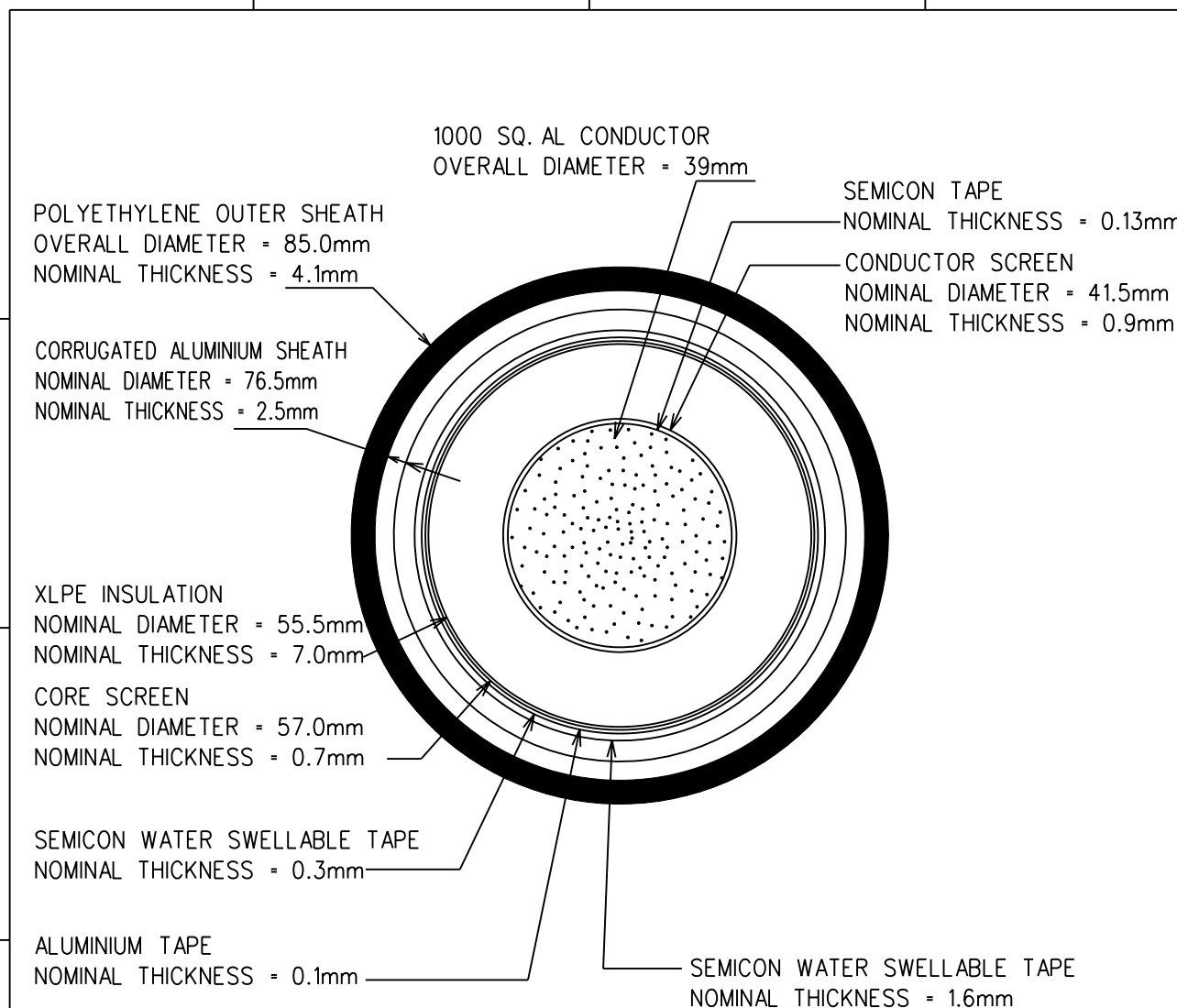
D-DT-0881

SET SHEET REVISION

38

36

7



NOTE :

1. THE DIMENSIONS SHOWN ON THIS DRAWING WERE TAKEN FROM AFRICAN CABLE DRAWING F2LA1999068.
2. HIGH STRESS DESIGN.

7	66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED	P.A.T.	R.KELLY	R.KELLY	25.08.2009	
6	44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30	P.A.T.	R.KELLY	R.KELLY	05.03.2009	
5	CABLES ADDED FOR WESTERN REGION	P.A.V.	R.KELLY	R.KELLY	03.09.2008	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.



AUTH: R. KELLY

DATE: 17.05.2007

CHKD: R. KELLY

DATE: 17.05.2007

DRAWN: P.A. VERMAAK

DATE: 17.05.2007

44kV XLPE
1000mm SQ. ALUMINIUM
SINGLE CORE CABLE
(CBIELECTRIC AFRICAN CABLES)

D-DT-0881

SET	SHEET	REVISION
38	37	7

1

2

3

4

A

POLYETHYLENE OUTER SHEATH
OVERALL DIAMETER = 76.5mm
NOMINAL THICKNESS = 3.8mm

500 SQ. AL CONDUCTOR
OVERALL DIAMETER = 26.5mm

SEMICON TAPE
NOMINAL THICKNESS = 0.13mm

CONDUCTOR SCREEN
NOMINAL DIAMETER = 29.5mm
NOMINAL THICKNESS = 0.9mm

CORRUGATED ALUMINIUM SHEATH
NOMINAL DIAMETER = 68.5mm
NOMINAL THICKNESS = 1.6mm

B

XLPE INSULATION
NOMINAL DIAMETER = 48.0mm
NOMINAL THICKNESS = 9.5mm

C

CORE SCREEN
NOMINAL DIAMETER = 50.0mm
NOMINAL THICKNESS = 0.8mm

SEMICON WATER SWELLABLE TAPE
NOMINAL THICKNESS = 1.6mm

ALUMINIUM TAPE
NOMINAL THICKNESS = 0.1mm

SEMICON WATER SWELLABLE TAPE
NOMINAL THICKNESS = 0.3mm

D

NOTE :

1. THE DIMENSIONS SHOWN ON THIS DRAWING WERE TAKEN FROM CBIELECTRIC AFRICAN CABLES DRAWING F2MA1500068HS.
2. HIGH STRESS DESIGN.

E

7	66kV XLPE 500mm SQ. AL. SINGLE CORE CABLE ADDED	P.A.T.	R.KELLY	R.KELLY	25.08.2009	
6	44kV XLPE 500 + 1000mm SQ. AL CABLES (sh.36+37) ADDED AND DIMENSIONS SHOWN ON SH. 29 + SH. 30	P.A.T.	R.KELLY	R.KELLY	05.03.2009	
5	CABLES ADDED FOR WESTERN REGION	P.A.V.	R.KELLY	R.KELLY	03.09.2008	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.

F



AUTH: R. KELLY

DATE: 17.05.2007

CHKD: R. KELLY

DATE: 17.05.2007

DRAWN: P.A. VERMAAK

DATE: 17.05.2007

66kV XLPE
500mm SQ. ALUMINIUM
SINGLE CORE CABLE
(CBIELECTRIC AFRICAN CABLES)

D-DT-0881

SET

SHEET

REVISION

38

38

7

1

2

3

4 A4L