



Test Report

No. TR-008-2019

For

Type Testing of
 $3 \times 400/35 \text{mm}^2$, AL/XLPE/LLDPE
33kV Medium Voltage Power Cable

Test carried out at

The High Voltage Laboratory

Sha'ban / Ramadan, 1440 H
May, 2019 G



Total No. of Pages including Appendix: 18



TEST REPORT No. TR-008-2019

OBJECT	Medium Voltage Electric Power Cable
TYPE	3 × 400/35mm ² AL/XLPE/LLDPE, 33kV
MANUFACTURER	NATIONAL CABLES INDUSTRIES, Sharjah - UAE
TRADE NAME	NATIONAL CABLES INDUSTRIES
DATE OF TEST	May, 2019
TEST REFERENCE STANDARDS	IEC 60502-2:2014 & 11-SDMS-04 Rev. 0:2018

SUMMARY AND CONCLUSION All tests passed.

This type test report applies only to the object tested. The responsibility for conformity of any production having the same designation as the tested sample rests with the manufacturer.

Prof. Dr. Abdulrehman A. Al-Arainy
Manager
High Voltage Laboratory,
King Saud University,
Riyadh, KSA





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1. IDENTIFICATION OF THE TEST OBJECT

1.1 Description of the test object

OBJECT	Medium Voltage Cable
KSU LAB ID #	HVS – 008/2019
MANUFACTURER	NATIONAL CABLES INDUSTRIES Sharjah , UAE
TYPE	33kV , 3 X 400/35 mm ² , AL/XLPE/LLDPE
YEAR OF MANUFACTURE	2019
SAMPLING PROCEDURE	22 meter cable sample cut from the drum
RATED VOLTAGE	33 kV
NO. OF CORES	3

Manufacturer specified values

1. Conductor

Material	Aluminum	
Size	400	mm ²
Shape	RMC	
Minimum no. of wires	61	
Conductor diameter	24 (Approximate)	mm
Max. DC Resistance at 20 °C	0.0778	Ω / km

2. Conductor Screen *

Material	Extruded Semi-conducting material	
Type	Bonded Type	
Thickness :		
min	0.51	mm

3. Insulation

Material	Cross-linked Polyethylene [XLPE]	
Thickness :		
- Nominal	8.0	mm
Diameter over insulation	41.6 (Approximate)	mm

4. Insulation Screen *

Material	Extruded Semi-conducting material	
Type	Cold Strippable Type	
Thickness :		
- Maximum	1.91	mm
- Minimum	1.02	mm

5. Metallic Screen

Material	Copper Wires + Copper Tape	
No. of wires	27 / Core	
Wire diameter	0.7	mm
No. of open helix tapes	1 / Core	
Width x Thickness	15 x 0.1	mm

6. Assembly

Material	Polypropylene [Filler + Tape]	
Diameter under binding tape	99.9 (Approximate)	mm
Binding tape material	Mylar tape	
- Thickness	0.075	mm

7. Outer Sheath

Material	LLDPE TYPE ST-7	
Color	Black	
Thickness :		
- Nominal	4.3	mm
Diameter under outer sheath	100.2	mm
Overall cable diameter	110 (Approximate)	mm

1.2 List of documents

The manufacturer has guaranteed that the object submitted for tests has been manufactured in accordance with the following document.

The following document is included in this report:

SPECIFICATION	REVISION	DATE	TITLE
11-SDMS-04	Rev. 0	July 2018	Design data sheet for three core AL/XLPE/LLDPE, 33kV power cable Size: 3 x 400/35 mm ²

2. GENERAL INFORMATION

2.1 The tests were carried out by : following members of HV laboratory of King Saud University

i. Prof. Yasin Khan



ii. Engr. Nissar R. Wani



2.2 Purpose of the test

Purpose of the test was to verify whether the material complies with the specified requirements.

2.3 Applicable standards

IEC 60502-2: 2014

When reference is made to a standard and the date of issue is not stated, this applies to the latest issue, including amendments, which have been officially published prior to the date of the tests.

3 ROUTINE TESTS

3.1 Measurement of the resistance of Aluminum conductors

Item	Unit	Requirement	Measured/Determined			Result
			Red	Yellow	Blue	
Resistance	Ω/km	≤ 0.0778	0.0750	0.0770	0.0770	Pass

4 MEASUREMENTS ON CONDUCTOR

Standard

Standard IEC 60228 & IEC 60502-2 (2014), Clause 17.4

4.1 Measurement on Aluminum Conductors

Item	Unit	Requirement	Measured/Determined			Result
			Red	Yellow	Blue	
Number of wires	No's	≥ 53	61	61	61	Pass
Conductor diameter	mm	24.0 (Approx.)	24.02	24.47	24.91	Pass

4.2 Measurement of the dimension of metallic screen

Item	Unit	Requirement	Measured/Determined			Result
			Red	Yellow	Blue	
Plain copper wire Screen Dimension	No. x mm	27 / Core X 0.7	27 x 0.72	27 x 0.72	27 x 0.72	Pass
Open helix copper tape over copper wire screen dimension	mm	No x Width x Thickness (1 x 15 x 0.10)	1 x 15 x 0.10			

5 ELECTRICAL TYPE TESTS

5.1 Bending test

Standard

Standard IEC 60502-2 (2014), clause 18.2.4

Sample length 17m

Description	Size	Voltage	D	d	Calculated test cylinder diameter $15(d + D) + 5\%$ (Maximum)	Actual measured Barrel Diameter
Unit	mm ²	kV	mm	mm	mm	mm
Al / XLPE / LLDPE	3 x 400	33	103.45	24.0	2007	1800

* Carried out at Riyadh Cables test lab

Result

The test was done in a satisfactory manner

5.2 Partial Discharge Test after Bending

Standard

Standard IEC 60502-2 (2014), clause 18.2.5

Item	Required test voltage (1.73 U ₀)	Requirement	Measured/Determined			Result
			Red	Yellow	Blue	
Partial Discharge Test	33 kV	≤ 5 pC	1.0 pC	1.0 pC	1.0 pC	Pass

5.3 Tan Delta measurement

Standard

Standard IEC 60502-2 (2014), clause 18.2.6

Conductor temperature during the test (95 - 100) °C

Item	Applied voltage	Requirement	Measured/Determined			Result
			Red	Yellow	Blue	
Tan Delta measurement	≥ 2 kV	≤ 40x10 ⁻⁴	1 X 10 ⁻⁴	2 X 10 ⁻⁴	1 X 10 ⁻⁴	Pass

5.4 Heating Cycle Test

Standard

Standard IEC 60502-2 (2014), clause 18.2.7

Duration (8hrs/cycle)

Heating Time/ Cycle	Heating Temp.(° C)	Maintaining Temp. (at 96 ° C) for	Cooling Time/ Cycle	Total Cycle Time (Heating & Cooling)	Total No. of Cycles
5 Hours	(95 - 100) °C	2 Hours	3 Hours	8 Hours	20

Result

The test was done with satisfactory results

5.5 Partial Discharge Test after Heating Cycle

Standard

Standard IEC 60502-2 (2014), clause 18.2.5

Item	Required test voltage (1.73 U ₀)	Requirement	Measured/Determined			Result
			Red	Yellow	Blue	
Partial Discharge Test	33 kV	≤ 5 pC	2.6 pC	3.5 pC	3.7 pC	Pass

5.6 Impulse test followed by AC voltage test

5.6.1 Impulse test

Standard

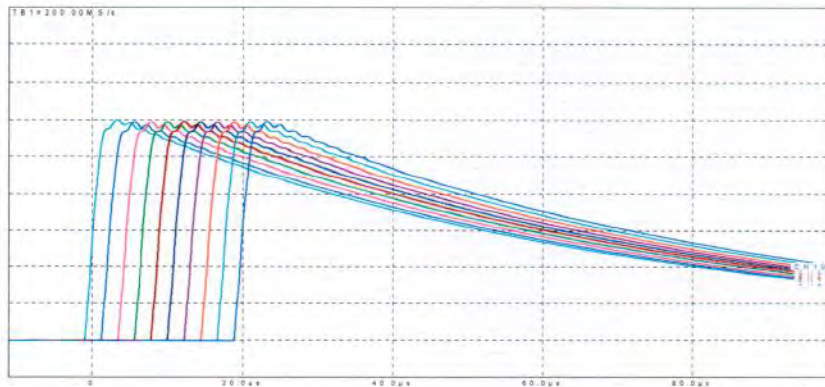
Standard IEC 60502-2 (2014), clause 18.2.8

Characteristic

Conductor temperature during the test (95 - 100) °C
No. of voltage impulses 10 Positive & 10 Negative

Item	Sample rated voltage (kV)	Test voltage Peak (kV)	Requirement	Measured/Determined			Result
				Red	Yellow	Blue	
Impulse test	33	170	No Breakdown	No Breakdown	No Breakdown	No Breakdown	Pass

Impulse test waveforms are shown next.

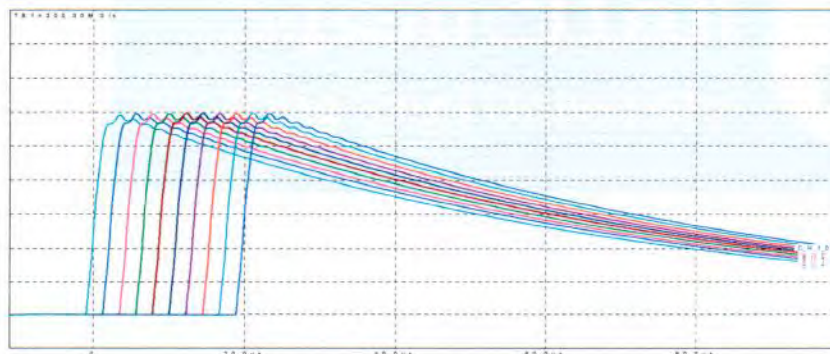


N o	13372
CH 1 No	13372
U p=	168.5kV
CH 2 No	13382
U p=	187.3kV
CH 3 No	13383
U p=	170kV
CH 4 No	13384
U p=	170kV
CH 5 No	13385
U p=	189.8kV
CH 6 No	13386
U p=	189.9kV
CH 7 No	13387
U p=	189.9kV
CH 8 No	13388
U p=	189.9kV
CH 9 No	13389
U p=	170.2kV
CH 10 No	13390
U p=	170.3kV



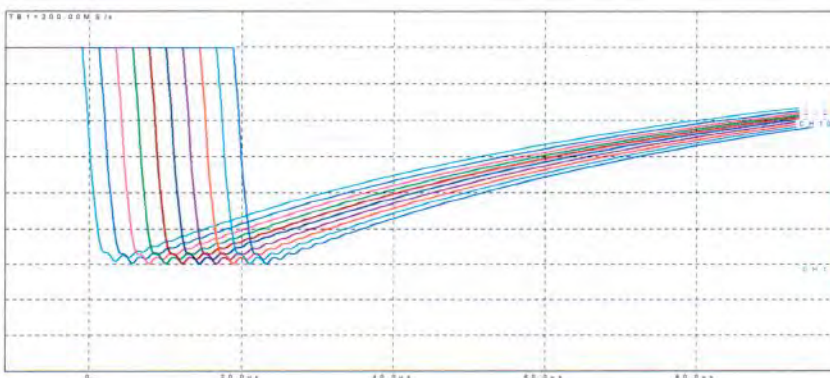
N o	13384
CH 1 No	13394
U p=	-189.5kV
CH 2 No	13385
U p=	-170.2kV
CH 3 No	13396
U p=	-170.2kV
CH 4 No	13398
U p=	-170.2kV
CH 5 No	13399
U p=	-170.4kV
CH 6 No	13399
U p=	-170.2kV
CH 7 No	13400
U p=	-170.3kV
CH 8 No	13401
U p=	-170.4kV
CH 9 No	13402
U p=	-170.2kV
CH 10 No	13403
U p=	-170.5kV

PHASE - RED



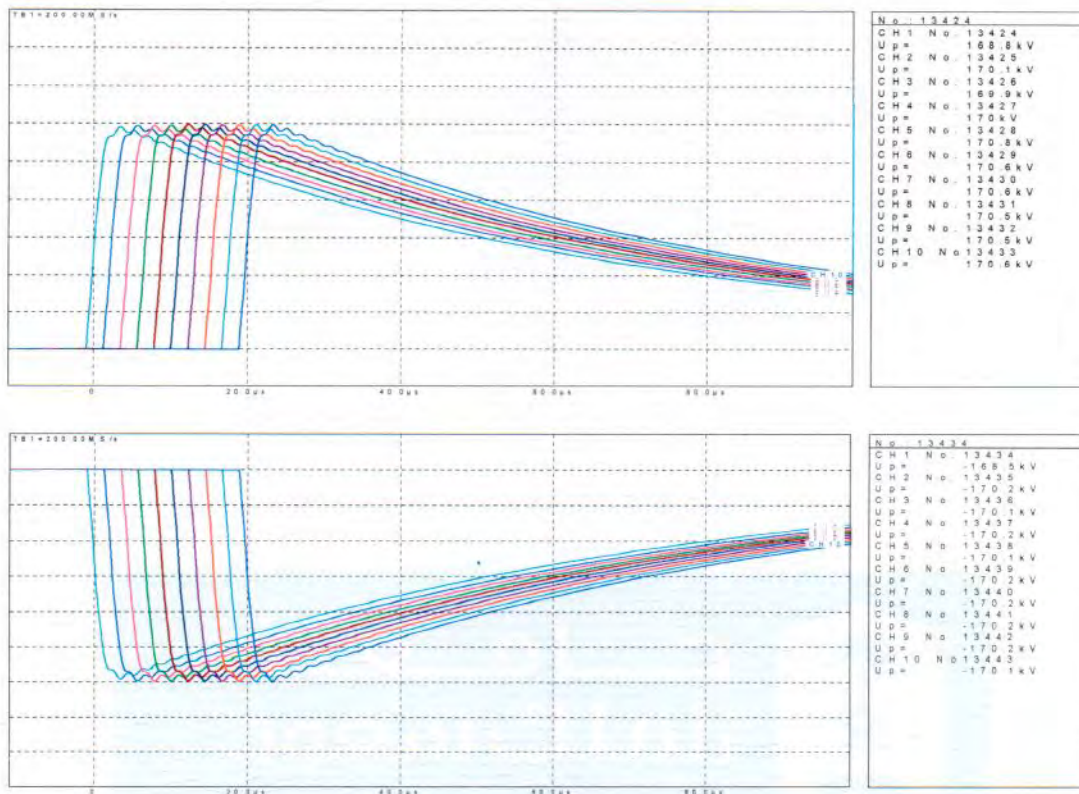
N o	13404
CH 1 No	13404
U p=	188.5kV
CH 2 No	13405
U p=	189.5kV
CH 3 No	13406
U p=	189.5kV
CH 4 No	13407
U p=	189.5kV
CH 5 No	13408
U p=	170kV
CH 6 No	13409
U p=	170kV
CH 7 No	13410
U p=	170kV
CH 8 No	13411
U p=	170kV
CH 9 No	13412
U p=	170.2kV
CH 10 No	13413
U p=	170kV

PHASE- YELLOW



N o	13414
CH 1 No	13414
U p=	-168.4kV
CH 2 No	13415
U p=	-169.9kV
CH 3 No	13416
U p=	-170.2kV
CH 4 No	13417
U p=	-170.2kV
CH 5 No	13418
U p=	-170.3kV
CH 6 No	13419
U p=	-170.3kV
CH 7 No	13420
U p=	-170.2kV
CH 8 No	13421
U p=	-170.3kV
CH 9 No	13422
U p=	-170.2kV
CH 10 No	13423
U p=	-170.2kV





PHASE- BLUE

5.6.2 AC Voltage test

Standard

Standard IEC 60502-2 (2014), clause 16.4

Characteristic

Temperature during Test 27°C
Duration of voltage 15 min

Item	Required test voltage 3.5U ₀ (kV)	Applied test voltage (kV)	Duration min	Measured/Determined	Result
Voltage test	67	67	15	No Breakdown in any core	Pass

5.7 AC Voltage test for 4 hrs.

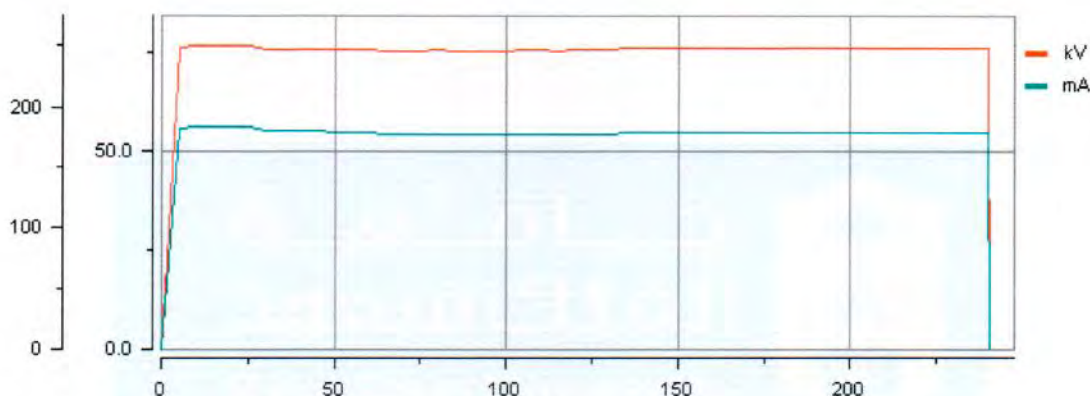
Standard

Standard IEC 60502-2 (2014), clause 18.2.9

Environmental conditions

Temperature of test object 27 °C

Item	Required test voltage 4U ₀ (kV)	Applied test voltage (kV)	Duration (hrs)	Determined	Result
Voltage test	76	76	4	No Breakdown in any core	Pass



5.8 Resistivity of Semi-Conducting Screens

Standard

Standard IEC 60502-2 (2014), clause 18.2.10

Environmental conditions

Temperature of test object 90 ± 2 °C

Item	Unit	Requirement	Measured/Determined			Result
			Red	Yellow	Blue	
Conductor Screen						
- Before ageing	Ω.m	≤ 1000	18.89	23.27	16.79	Pass
- After ageing	Ω.m	≤ 1000	9.85	10.55	8.59	
Insulation Screen						
- Before ageing	Ω.m	≤ 500	4.29	4.74	4.78	Pass
- After ageing	Ω.m	≤ 500	2.13	2.46	2.46	

6 NON-ELECTRICAL TYPE TESTS

6.1 Measurement of thickness of insulation

Standard

Standard IEC 60502-2 (2014), clause 19.2

Results of the measurement of thickness of XLPE insulation

thickness	Unit	Requirement specified	Measured/Determined			Result
			Red	Yellow	Blue	
Nominal ($T_{nom.}$)	mm	8.0	8.21	8.17	8.23	Pass
Minimum ($T_{min.}$)	mm	≥ 7.1	7.89	7.96	7.90	
$(T_{max.} - T_{min.}) / T_{max.}$	mm	≤ 0.15	0.08	0.08	0.08	

Results of the measurement of thickness of conductor screen

thickness	Unit	Requirement specified	Measured/Determined			Result
			Red	Yellow	Blue	
Minimum	mm	≥ 0.51	0.82	0.88	0.84	Pass

Results of the measurement of thickness of insulation screen

thickness	Unit	Requirement specified	Measured/Determined			Result
			Red	Yellow	Blue	
Minimum	mm	≥ 1.02	1.09	1.05	1.12	Pass
Maximum	mm	≤ 1.91	1.19	1.19	1.20	

6.2 Measurement of thickness of non-metallic sheathing

Standard

Standard IEC 60502-2 (2014), clause 19.3

Outer Sheath

Thickness (Nominal)	Unit	Requirement (Minimum)	Measured/Determined	Result
4.3	mm	≥ 3.44	4.63	Pass

6.3 Tests for determining the mechanical properties of the insulation before and after ageing

Standard

Standard IEC 60502-2(2014), clause 19.5

Characteristic

Temperature during ageing 135°C ± 3K

Duration 7 days

Mechanical properties before ageing

Item	Unit	Requirement	Measured/Determined			Result
			Red	Yellow	Blue	
Tensile strength before ageing	N/mm ²	≥ 12.5	21.06	21.65	22.78	Pass
Elongation before ageing	%	≥200	709.75	719.65	660.05	

Mechanical properties after ageing

Item	Unit	Requirement	Measured/Determined			Result
			Red	Yellow	Blue	
Tensile strength	N/mm ²	-----	21.96	22.96	26.94	Pass
Variation with samples without ageing	%	± 25 max.	+4.27	+6.05	+18.26	
Elongation	%	-----	692.65	667.70	739.25	Pass
Variation with samples without ageing	%	± 25 max.	-2.41	-7.22	+11.99	

6.4 Tests for determining the mechanical properties of the non-metallic sheaths before and after ageing

Standard

Standard IEC 60502-2(2014), clause 19.6

Characteristic (Outer Sheath)

Material LLDPE – TYPE ST-7

Temperature during ageing 110 °C ± 2K

Duration 10 days

Mechanical properties before ageing

Item	Unit	Requirement	Measured/Determined	Result
Tensile strength Without ageing	N/mm ²	≥ 12.5	18.92	Pass
Elongation Without ageing	%	≥ 300	1102.20	

Mechanical properties after ageing

Item	Unit	Requirement	Measured/Determined	Result
Tensile strength	N/mm ²	-----	18.35	Pass
Variation with samples without ageing	%	-----	-3.01	
Elongation	%	≥ 300	1092.20	Pass
Variation with samples without ageing	%	-----	-0.91	

6.5 Additional ageing test on pieces of Completed cables

Standard

Standard IEC 60502-2(2014), clause 19.7

Characteristic test data

Temperature during ageing 100 °C ± 2K

Duration 7 days

Insulation

Item	Unit	Requirement	Measured/Determined			Result
			Red	Yellow	Blue	
tensile strength	N/mm ²	-----	22.16	20.26	23.73	Pass
variation with samples without ageing	%	± 25 max.	+5.22	-6.42	+4.17	
elongation	%	-----	736.50	634.20	618.45	Pass
variation with samples without ageing	%	± 25 max.	+3.77	-11.87	-6.30	

Outer Sheath (LLDPE)

Item	Unit	Requirement	Measured/Determined	Result
tensile strength	N/mm ²	-----	18.18	Pass
variation with samples without ageing	%	-----	-3.91	
Elongation	%	≥ 300	1054.30	Pass
variation with samples without ageing	%	-----	-4.34	

6.6 Pressure test at high temperature on non-metallic sheaths

Standard

IEC 60502-2 (2014) clause 19.9

Characteristic test data (Outer Sheath) LLDPE

- Oven Temperature 110°C ± 2K
- Time under load 6h
- Load 2032 grams

Calculated as per the specified test method

Item	Unit	Requirement	Measured/Determined	Result
			Median value of 3 samples	
Depth of indentation	%	≤ 50	4.69 %	Pass

6.7 Hot set test for XLPE insulation

Standard

Standard IEC 60502-2(2014), clause 19.13

Characteristic test data

- Temperature 200 °C ± 3K
- Time under load 15 min
- Mechanical stress 20 N/cm²

Item	Unit	Requirement	Measured/Determined			Result
			Red	Yellow	Blue	
Elongation under load	%	≤175	47.10	51.71	49.47	Pass
Permanent elongation	%	≤15	3.68	4.88	4.21	Pass

6.8 Water absorption test on insulation

Standard

Standard IEC 60502-2(2014), clause 19.15

Characteristic test data

- Temperature 85 °C ± 2K
- Duration 14 days

Item	Unit	Requirement	Measured/Determined			Result
			Red	Yellow	Blue	
Variation of mass	mg/cm ²	≤ 1	0.005	0.006	0.011	Pass

6.9 Shrinkage test for XLPE insulation

Standard

Standard IEC 60502-2(2014), clause 19.18

Characteristic test data

Temperature 130 °C ± 3K

Duration 1 h

Item	Unit	Requirement	Measured/Determined			Result
			Red	Yellow	Blue	
Shrinkage	%	≤ 4	1.41	1.42	1.42	Pass

6.10 Shrinkage test for LLDPE Sheath

Standard

Standard IEC 60502-2(2014), clause 19.22

Characteristic test data

Temperature 80 °C ± 2K

Duration 5 Hrs , 5 Cycles

Item	Unit	Requirement	Measured/Determined	Result
Shrinkage	%	≤ 3	1.6	Pass

6.11 Strippability test for insulation screen before and after ageing

Standard

Standard IEC 60502-2(2014), clause 19.23

Characteristic test data

- Grip to grip separation speed 250 mm/min

- Strip width 10 mm

Before ageing

Item	Unit	Requirement	Measured/Determined (Max.)		Result
			Mean (all cores)	Range (all cores)	
Strippability force	N	4 ≤ N ≤ 45	15.16	11.90 ~ 24.05	Pass

After ageing

Item	Unit	Requirement	Measured/Determined (Max.)		Result
			Mean (all cores)	Range (all cores)	
Strippability force	N	4 ≤ N ≤ 45	14.55	9.75 ~ 19.0	Pass

6.12 Carbon black contents (Outer LLDPE sheath)

Standard

Standard IEC 60502-2(2014), clause 19.17

Characteristic test data

- Purging gas 850 ~ 950 °C
- End temperature 950 °C

Item	Unit	Requirement	Measured/Determined (Max.)	Result
Carbon black content	%	Min/Max: 2/3	2.544	Pass

- This test was conducted Riyadh cables test lab under KSU witness

7 VERIFICATION OF CABLE CONSTRUCTION

Verification of cable construction was carried out in accordance with clauses 5 to 14 of IEC 60502-2. (2014)

The results are presented below.

	Measured / Determined
Marking of the cable	<p>Arabic Embossing: ٣ × ٤٠٠/٣٥ مم ٢ المنيوم/اكس ال بي اي / ال ال دي بي اي، ٣٣ ك ف ، الوطنية لصناعة الكابلات ، الامارات العربية المتحدة ، ٢٠١٩ ، املاك الشركة السعودية للكهرباء.</p> <p>English Embossing: 3X400/35 MM2, AL/XLPE/LLDPE, 33 kV NATIONAL CABLES INDUSTRIES, UAE, 2019, PROPERTY OF SAUDI ELECTRICITY COMPANY</p>
Color of the cores	Red, Yellow, Blue identification tape
Color of the outer sheath	Black
Construction	3 x 400/35 mm ² -conductor of Aluminum wires -RMC shaped – Conductor Screen - XLPE Insulation - Strippable Type Insulation Screen - Copper Wires Metallic Screen - Open Helix Copper Tape Binder - Polypropylene Filler - Binder Tape- LLDPE – ST7 Outer Sheath
Outer diameter of the cable (mm)	103.45 mm approx. (average)

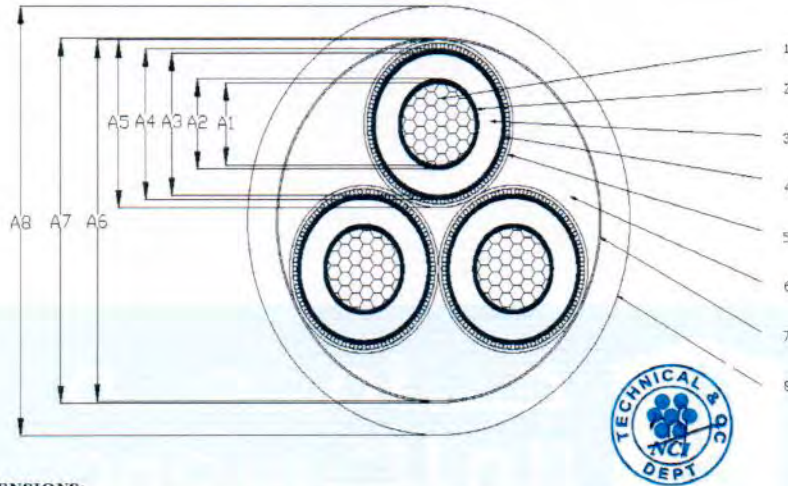
Note: See also the manufacturer's drawing in appendix A.

8 Appendix A. Manufacturer's drawing / data sheet



الوطنية لصناعة الكابلات
NATIONAL CABLES INDUSTRY

TYPICAL CROSS SECTIONAL DRAWING FOR
3x400/35 mm² Al/XLPE/LLDPE 33 kV Cable
Reference standard: IEC 60502-2 & 11-SDMS-04 REV. 0



DIMENSIONS:

No.	DETAILS	
	Conductor Cross Section, mm ²	400
1	Conductor (Circular stranded compacted)	Aluminium
2	Conductor screen (Extruded semi-conductive compound)	0.51 (Min.)
3	Nominal thickness of XLPE insulation, mm	8.0
4	Insulation screen (Extruded semi-conductive compound)	1.02 (Min.)
5	Plain Annealed Copper Wires + Copper Binder Tape (open helix)	27 x 0.7 (No. of wires x diameter) 15 x 0.1 (Open helix width x thickness)
6	Filler (Assembling)	Polypropylene String
7	Nominal thickness of binder tape, mm	0.075
8	Nominal thickness of LLDPE outer sheath, mm	4.3
A1	Approximate diameter over conductor, mm	24.0
A2	Approximate diameter over conductor screen, mm	25.6
A3	Approximate diameter over insulation, mm	41.6
A4	Approximate diameter over insulation screen, mm	43.6
A5	Approximate diameter over metallic screen, mm	46.2
A6	Approximate diameter over assembling, mm	99.9
A7	Approximate diameter over binder tape, mm	100.2
A8	Approximate diameter over outer sheath, mm	110



P.O. Box: 27472 Sharjah, U.A.E. ☎ Tel: 06-5311888 ☎ Fax: 06-5311577
E-mail: n_c_j@emirates.net.ae Website: www.nci.ae



شهادة اعتماد

ACCREDITATION CERTIFICATE



تشهد اللجنة السعودية للاعتماد (ساك) بأن
Saudi Accreditation Committee (SAC) Declare that

High Voltage King Saud University Laboratory

Address: Riyadh

Scope : Electrical and electronic

مختبر الجهد العالي بجامعة الملك سعود

العنوان: الرياض

المجال : الكهربائية والإلكترونية

وذلك **17025** في المجال الملحق بهذه الشهادة
قد حقق متطلبات اللجنة السعودية للاعتماد (ساك) وتم اعتماده وفقاً لمتطلبات المواصفة القياسية السعودية ساسو / آيزو / آي إي سي **17025**

Has met the Requirements of Saudi Accreditation Committee (SAC) and has been accredited in compliance with SASO/ISO/IEC **17025** for the scope attached with this Certificate

رئيس اللجنة
SAC Chairman

سعد بن عثمان القصبي
Saad O. Alkasabi



12/06/1441 : تاريخ الانتهاء / Expire Date

13/06/1438 : تاريخ الاصدار / Issue Date

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