

INSPECTION REPORT

Client Name : ENERGYA SPECIALTY CABLES

Inspection Date : 16 / 01 / 2012

Inspection Place : Energya Specialty Cables company at 10th of Ramadan city.

Goods : one coil of cable size 1x2.5mm² presented to SGS by Energya

Scope of Inspection :
1-Visual Inspection.
2-Marking check
3-witnessing tests

- Test for resistance to vertical flame propagation for single insulated conductor according to IEC 60332-2-1&2(2004)
- Test resistance to cracking- heat shock test for PVC insulation according to IEC 60227 & IEC 60811-3-1(2001)

Attendees :
Eng. Ihab Ahmed El-shiekh Energya Specialty Cables
Eng. Hesham Sedky SGS Egypt

We attended at the place of inspection on the above-mentioned date and performed the required scope of inspection and we now report at time and place of the inspection the following:

- Coil data:-

1	Manufacturer	Energya specialty cables Co. elsewedy Helal
2	Type	1x2.5 mm ² – CU/PVC – 450/750V
3	No. of phases	1
4	Insulation	PVC
5	Conductor Material	Copper
6	Conductor cross –section	2.5 mm ²
7	Cable diameter	3.39 mm
8	No. of wires	7

1. Visual inspection:

Visual inspection were carried out on the coil and found satisfactory.

2- Marking check:

The following is the marking found over the coil.

Energya specialty cables (SWEDEX)ELSEWEDY HELAL 2.5MM2 CU/PVC 450/750 IEC 60227

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3-Witnessing**1. Test for resistance to vertical flame propagation for a single insulated conductor or cable:****Procedure:** The test was carried out in accordance with IEC 60332-2-1&2(2004)**Test result:**

Sample no.	Required distance between the lower edge of top support and the onset of charring (L) (mm)	Measured distance between the lower edge of top support and the onset of charring (L) (mm)
1	$50 \leq L \leq 540$	335

- The specimen passed the test.

2. Test for resistance to cracking-heat shock for PVC insulation:**Procedure:** The test was carried out in accordance with IEC60227 & IEC60811-3-1(2001)**Test Result:** - The test pieces showed no crack with normal vision without magnification.

- Test specimen passed the test.

Conclusions:

- The cable 1x2.5mm² - CU/PVC- 450/750V of Energya specialty cable CO. Manufacturer fulfill the requirements as specified in the standards IEC 60332-2-1&2 for vertical flame propagation test and the standards IEC 60227 & 60811-3-1 (2001) for heat shock test.

Hesham Sedky
SGS Inspector

Galal Mahmoud
For SGS Egypt

INSPECTION REPORT

Client Name : ENERGYA SPECIALTY CABLES

Inspection Date : 16 / 01 / 2012

Inspection Place : Energya Specialty Cables company at 10th of Ramadan city.

Goods : one coil of cable size 1x4mm² presented to SGS by Energya

Scope of Inspection :

- 1-Visual Inspection.
- 2-Marking check
- 3-witnessing tests
 - Test for resistance to vertical flame propagation for single insulated conductor according to IEC 60332-2-1&2(2004)
 - Test resistance to cracking- heat shock test for PVC insulation according to IEC 60227 & IEC 60811-3-1(2001)

Attendees :

Eng. Ihab Ahmed El-shiekh Energya Specialty Cables

Eng. Hesham Sedky SGS Egypt

We attended at the place of inspection on the above-mentioned date and performed the required scope of inspection and we now report at time and place of the inspection the following:

- Coil data:-

1	Manufacturer	Energya specialty cables Co. elsewedy Helal
2	Type	1x4 mm ² – CU/PVC – 450/750V
3	No. of phases	1
4	Insulation	PVC
5	Conductor Material	Copper
6	Conductor cross –section	4 mm ²
7	Cable diameter	4.05 mm
8	No. of wires	7

1- Visual inspection:

Visual inspection were carried out on the coil and found satisfactory.

2- Marking check:

The following is the marking found over the coil.

Energya specialty cables (SWEDEX)ELSEWEDY HELAL 4MM2 CU/PVC 450/750 IEC 60227

3-Witnessing**1. Test for resistance to vertical flame propagation for a single insulated conductor or cable:**

Procedure: The test was carried out in accordance with IEC 60332-2-1&2(2004)

Test result:

Sample no.	Required distance between the lower edge of top support and the onset of charring (L) (mm)	Measured distance between the lower edge of top support and the onset of charring (L) (mm)
1	$50 \leq L \leq 540$	385

- The specimen passed the test.

2. Test for resistance to cracking-heat shock for PVC insulation:

Procedure: The test was carried out in accordance with IEC60227 & IEC60811-3-1(2001)

Test Result: - The test pieces showed no crack with normal vision without magnification.

- Test specimen passed the test.

- Conclusions:

- The cable 1x4mm² - CU/PVC- 450/750V of Energya specialty cable CO. Manufacturer fulfill the requirements as specified in the standards IEC 60332-2-1&2 for vertical flame propagation test and the standards IEC 60227 & 60811-3-1 (2001) for heat shock test.

Hesham Sedky
SGS Inspector

Galal Mahmoud
For SGS Egypt

INSPECTION REPORT

Client Name : ENERGYA SPECIALTY CABLES

Inspection Date : 16 / 01 / 2012

Inspection Place : Energya Specialty Cables company at 10th of Ramadan city.

Goods : one coil of cable size 1x6mm² presented to SGS by Energya

Scope of Inspection :
1-Visual Inspection.
2-Marking check
3-witnessing tests

- Test for resistance to vertical flame propagation for single insulated conductor according to IEC 60332-2-1&2(2004)
- Test resistance to cracking- heat shock test for PVC insulation according to IEC 60227 & IEC 60811-3-1(2001)

Attendees :
Eng. Ihab Ahmed El-shiekh Energya Specialty Cables
Eng. Hesham Sedky SGS Egypt

We attended at the place of inspection on the above-mentioned date and performed the required scope of inspection and we now report at time and place of the inspection the following:

- Coil data:-

1	Manufacturer	Energya specialty cables Co. elsewedy Helal
2	Type	1x6 mm ² – CU/PVC – 450/750V
3	No. of phases	1
4	Insulation	PVC
5	Conductor Material	Copper
6	Conductor cross –section	6 mm ²
7	Cable diameter	4.58 mm
8	No. of wires	7

1. Visual inspection:

Visual inspection were carried out on the coil and found satisfactory.

2- Marking check:

The following is the marking found over the coil.

Energya specialty cables (SWEDEX)ELSEWEDY HELAL 6MM2 CU/PVC 450/750 IEC 60227

3-Witnessing**1. Test for resistance to vertical flame propagation for a single insulated conductor or cable:**

Procedure: The test was carried out in accordance with IEC 60332-2-1&2(2004)

Test result:

Sample no.	Required distance between the lower edge of top support and the onset of charring (L) (mm)	Measured distance between the lower edge of top support and the onset of charring (L) (mm)
1	$50 \leq L \leq 540$	307

- The specimen passed the test.

2. Test for resistance to cracking-heat shock for PVC insulation:

Procedure: The test was carried out in accordance with IEC60227 & IEC60811-3-1(2001)

Test Result: - The test pieces showed no crack with normal vision without magnification.

- Test specimen passed the test.

- Conclusions:

- The cable 1x6mm² - CU/PVC- 450/750V of Energya specialty cable CO Manufacturer fulfill the requirements as specified in the standards IEC 60332-2-1&2 for vertical flame propagation test and the standards IEC 60227 & 60811-3-1 (2001) for heat shock test.

Hesham Sedky
SGS Inspector

Galal Mahmoud
For SGS Egypt