

Type Test Report
Electrical Accessories and Hardware Reference Laboratory

End Cap for Low Voltage Aerial Bundled Cable (25-95 mm²)

**Client: Council for Assessment and Compliance with Electrical Industry Equipment
Production Standards, Power Generation, Transmission & Distribution Company**

Manufacturer: Electro Niroo Taban Control Company (NETCO).

Test Standard: EN 50483-4, EN 50483-6 (2009)

Niroo Research Institute



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End Cap for Low Voltage Aerial Bundled Cable (25-95 mm²)

Serial number: -

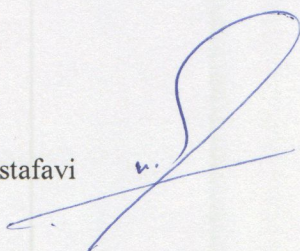
Reference Standards: EN 50483-4, EN 50483-6 (2009)

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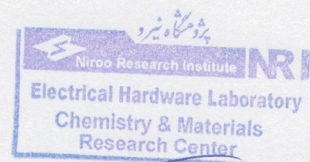
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Reviewed by: H. Mostafavi



Approved by: F. Naghdi



End Cap for Low Voltage Aerial Bundled Cable (25-95 mm²)

Serial number: -

Reference Standards: EN 50483-4, EN 50483-6

Tested by: M. Soltanloo

Approved by: A. Bajgholi

Tests witnessed by:

Date of issue: 2016/06/11

Laboratory: Electrical Accessories and Hardware Reference Laboratory

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Client: Council for Assessment and Compliance with Electrical Industry Equipment Production Standards, Power Generation, Transmission & Distribution Company

Manufacturer: Electro Niroo Taban Control Company (NETCO)

Request number: 94/27500/8334

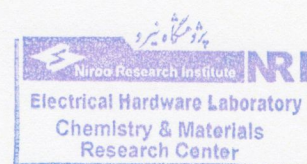
Request date: 2015/10/29

Sampling date: 2016/03/01

Report number: CH9549

Sample code: SCH9559

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Tested by: M. Soltanloo

Approved by: A. Bajgholi

Contents

1. Summary of test results.....	5
2. Product Specifications	6
3. Technical Specifications	6
4. General Considerations.....	6
5. Test Methods and Results	7
5.1. Dielectrical voltage test.....	7
5.1.1. Dielectrical voltage test in air	7
5.2. Environmental tests.....	7
5.2.1. Climatic aging test	7
5.3. Dielectrical voltage test after climatic aging test	8
5.3.1. Dielectrical voltage test in air after climatic aging test.....	8

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1. Summary of test results

Test	Test Type	Standard/Clause	Result
Dielectrical voltage test in air	Type test	EN 50483-4 8.1.3	Passed
Climatic aging test	Type test	EN 50483-4 8.1.5.2 EN 50483-6	Passed
Dielectrical voltage test in air after climatic aging test	Type test	EN 50483-4 8.1.3	Passed

End Cap for Low Voltage Aerial Bundled Cable (25-95 mm²) of Electro Niroo Taban Control Company (NETCO) is approved according to EN 50483-4 and EN 50483-6 standards.

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2. Product Specifications

Name: End Cap for Low Voltage Aerial Bundled Cable (25-95 mm²)

Model: -



3. Technical Specifications

Conductor Range: 25-95 mm²

Weight:

Markings:

4. General Considerations

The customer has the right to officially announce their written objection to the test results or procedure within one month after the test report is issued. The tested samples will be stored at the laboratory for up to 6 months after testing.

Sampling was conducted by representatives of the Niroo Research Institute.

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5. Test Methods and Results

5.1. Dielectrical voltage test

5.1.1. Dielectrical voltage test in air

The test was performed according to EN 50483-4, clause 8.1.3. Two samples were installed on conductors with 95 mm² and 25 mm² cross sections. The assembled samples were closely wrapped with aluminum foil. An a.c. voltage of 4 kV was applied for 60 s between the conductor and the foil, and the conductor parts were earthed.

Acceptance Criteria:

No flashover or breakdown shall occur.

The maximum leakage current shall be 10 mA.

Results:

Samples withstood the test voltage for 60 s without any breakout.

The measured leakage current was less than 10 mA.

Conclusion:

The end cap passed the test.

Cross Section (mm ²)	Earthing through	Voltage test applied to	Voltage application time (s)	Rated voltage (kV)	Measured leakage current (mA)
25	Aluminum foil	Main Conductor	60	4	0.1
95	Aluminum foil	Main Conductor	60	4	0.1

5.2. Environmental tests

5.2.1. Climatic aging test

The test was performed according to EN 50483-4, clause 8.1.5.2 and EN 50483-6, clause 8.5. The samples were exposed to UV chamber for 6 cycles of 1 week. After completion of the test, the samples were removed from the chamber and were subjected to visual inspection after 48 h.

Acceptance Criteria:

Visual inspection shall be carried out to determine that there has been no degradation of the organic parts which could affect the normal function of the sample.

The end cap shall meet the requirements of the dielectrical voltage test in air.

Results:

No degradation of the organic parts was observed.

The end cap met the requirements of the dielectrical voltage test in air (See 5.3).

Conclusion:

The end cap passed the test.

5.3. Dielectrical voltage test after climatic aging test

5.3.1. Dielectrical voltage test in air after climatic aging test

The test was performed according to EN 50483-4, clause 8.1.3. Two samples were installed on conductors with 95 mm² and 25 mm² cross sections. The assembled samples were closely wrapped with aluminum foil. An a.c. voltage of 4 kV was applied for 60 s between the conductor and the foil, and the conductor parts were earthed.

Acceptance Criteria:

No flashover or breakdown shall occur.

The maximum leakage current shall be 10 mA.

Results:

Samples withstood the test voltage for 60 s without any breakout.

The measured leakage current was less than 10 mA.

Conclusion:

The end cap passed the test.

Cross Section (mm ²)	Earthing through	Voltage test applied to	Voltage application time (s)	Rated voltage (kV)	Measured leakage current (mA)
25	Aluminum foil	Main Conductor	60	4	0.2
95	Aluminum foil	Main Conductor	60	4	0.2

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