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TN23-2488E

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Contract No.: ISTCW23-0977

Test Report

Consigner

CALEDONIAN (SHANGDONG) CABLES LIMITED

1/F., CMA Building, 64-66 Connaught Road Central, City, Hong Kong

Sample Name

50kV DC SILICON CABLE

Type and Size

50DC-SCS-1C0.75-LSOH

Kind of test

Commission test

Sample Received Date April 10th, 2023

Test Duration

April 10th, 2023 - April 18th, 2023

Test Conclusion

1. The DC voltage tests results comply with the consigner

requirements;

2. The insulation resistance measurement result is provided.

Authorized by

Shanghai Intelligent Service and Technology Co., Ltd.

Issue date

Testing Engineer: 贾欣 Jia Xin

Genuine statement: This test report is only valid for the tested sample. This test report is only valid in paper version with authorized signature, issue date and dedicated inspection stamp of our company. Without the written permission of ISTCW, the test report shall be reproduced in full. Its electronic version (such as PDF format or scanned version) is allowed to use, whatever with "only for information". If the consigner has any objection to the test report, the consigner shall submit it to ISTCW in writing within 15 days after receiving the report.

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50DC-SCS-1C0.75-LSOH

1 Sample Description

Manufacturer

CALEDONIAN (SHANGDONG) CABLES LIMITED

Type and Size

50DC-SCS-1C0.75-LSOH

Quantity

18m

Marking

,

Color

/

Source Status Sent by the consigner Normal appearance

2 Testing and Verdict Standards

2.1 Testing Standards

Referring to: IEC 60502-2: 2014 Power cables with extruded insulation and their accessories for rated voltages above 1kV (U_m =1.2kV) up to 30kV (U_m =36kV) – Part 2: Cables for rated voltages from 6kV (U_m =7.2kV) up to 30kV (U_m =36kV)

2.2 Verdict Standards

Requirements of the consigner

3 Other Information

3.1 Illustration

- 1) The sample's name, type and manufacturer are provided by the consigner;
- 2) The test voltages, time for DC voltage tests and insulation resistance measurement are provided by the consigner.

3.2 Testing Location

All tests are tested at No.458, Haixiang Road, Fengxian Area, Shanghai, China.

3.3 Symbol definition

Requirement: / not required by standard

Verdict:

P complying with requirement/Pass

F not complying with requirement/Fail

N not required



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50DC-SCS-1C0.75-LSOH

4 Test Item

4.1 DC voltage test for 15mins

According to the consigner requirements.

Test method: Referring to IEC 60502-2: 2014

Test parameters

Ambient temperature:

20 ℃

Polarity of DC voltage:

Negative

Voltage Arrangement		Test Voltage, DC	Duration(min)
Voltage applied	Grounded	(kV)	Single Core
Conductor	Metal Screen	75	15

Test Item	Requirement	Test Result	Verdict
- DC voltage test	No breakdown shall occur.	There is no breakdown	Р
		occurred.	

4.2 DC voltage test for 5mins

According to the consigner requirements.

Test method: Referring to IEC 60502-2: 2014

Test parameters

Ambient temperature:

20 °C

Polarity of DC voltage:

Negative

Voltage Arrangement		Test Voltage, DC	Duration(min)
Voltage applied	Grounded	(kV)	Single Core
Conductor	Metal Screen	125	5

Test Item	Requirement	Test Result	Verdict
- DC voltage test	No breakdown shall occur.	There is no breakdown	Р
		occurred.	

4.3 Insulation resistance measurement at ambient temperature

According to the consigner requirements.

Test method: Referring to IEC 60502-2: 2014







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50DC-SCS-1C0.75-LSOH

Test parameters

Ambient temperature:

20 ℃

Test voltage:

5000 V, DC

Test voltage applied between:

Conductor-Metal Screen

The time after test voltage applied:

1 min

Effective length of the sample:

15 m

Test Item	Unit	Requirement	Test Result	Verdict
			Single Core	
- Insulation resistance	ΜΩ	1	6×10 ⁵	Р

- The End -

