

Test Report

No. CZFS2402000144FF

Date: Mar. 5, 2024

Page 1 of 5

ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD.

No. 1399, Binxing Road, Binjiang District, Hangzhou, Zhejiang, China

Sample Name: Network Cable**SGS Ref No.:** GZES2401001652CO**Sampling:** Test sample(s) were collected by SGS Fimko authorized person. SGS Fimko takes responsibly for the authenticity of the samples

Test Requested:

EN 50399:2022 Common test methods for cables under fire conditions—Heat release and smoke production measurement on cables during flame spread test- Test apparatus, procedures, and results, 20,5 kW Ignition source.

Test Results: --- See attached sheet ---**Test Period:**

Sample Receiving Date : February 21, 2024

Test Performing Date : February 21, 2024 TO February 25, 2024

Signed for and on behalf of

SGS-CSTC Standards Technical Services (Changzhou) Co., Ltd



Matthew Fang
Approved Signatory

Scan to see the report



CZFS2402000144FF
Verification:
check.sgsonline.com.cn



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.3, East Hehai Road, Tianming District, Changzhou, Jiangsu Province, China

中国·江苏·常州市天宁区河海东路3号

t (86-519) 8380 5217

t (86-519) 8380 5217

f (86-519) 8380 5219

f (86-519) 8380 5219

www.sgsgroup.com.cnsgs.china@sgs.com

Test Report

No. CZFS2402000144FF

Date: Mar. 5, 2024

Page 2 of 5

I. Test Conducted

This test was conducted according to EN 50399:2022 Common test methods for cables under fire conditions—Heat release and smoke production measurement on cables during flame spread test- Test apparatus, procedures, and results, with 20,5 kW Ignition source.

II. Sample details

Description*	Network Cable
Model*	DH-PFM923I-6UN-CC
Designation type*	DH-PFM923I-6UN-CC
Generic construction*	Cu / HDPE / Separator: PE / Rip cord / LSZH
Number of cores*	8
Color of sheath	White
Overall diameter	6.1mm
Marking	ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD. DH-PFM923I-6UN-CC UTP CAT6 LSZH 4PAIRS CPR EN50575 Cca CERTIFIED Q/DXJ 067-2019 100496 2023/11/01 154m
Sample length	About 3.5m
Manufacturer*	Zhejiang Dahua Vision Technology Co., Ltd.
Address of Manufacturer*	No. 1399, Binxing Road, Binjiang District, Hangzhou, Zhejiang, China

*: Provided by the applicant.

This product is defined as Communication cable according to EN 50575.

III. Test details

Conditioning:

The test pieces were conditioned for at least 16 h at a temperature of $(20 \pm 10)^\circ\text{C}$. The test pieces were dry.

Test conditions:

Number of test pieces	: 25	Flame application time	: 20 min
Number of burners	: 1	The heat output of the burner	: 20,5 kW
Backing board on ladder	: No	Airflow through the chamber	: 8000 ± 400 l/min



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC (Suzhou) Co., Ltd.
Fire Technology Service (Suzhou) Co., Ltd.

No.3, East Hehai Road, Tiansheng District, Changzhou, Jiangsu Province, China
中国·江苏·常州市天宁区河海东路3号

t (86-519) 8380 5217
t (86-519) 8380 5217

f (86-519) 8380 5219
f (86-519) 8380 5219

www.sgsgroup.com.cn
sgs.china@sgs.com

Test Report

No. CZFS2402000144FF

Date: Mar. 5, 2024

Page 3 of 5

Mounting method of specimen:

1) The test sample shall be mounted, carefully and accurately, on the front of the ladder. The lower part of each test piece or bundle of test pieces shall extend between 200 mm and 300 mm under the horizontal centreline of the ribbon burner, dependent on their actual length, such that (3300~3025) mm of the cables are above the horizontal centreline of the ribbon burner. Non-circular cables shall be mounted such that the major axis is presented to the burner face.

Each test piece or bundle of test pieces shall be attached individually to each rung of the ladder by means of a metal wire using the crossed wire method of fixing. Steel wire is recommended. To fix the cables to the rungs two wires can be applied successively. The wire ends shall be cut off such that the lengths of these ends shall not exceed 10 mm.

For cables up to and including 50 mm diameter (or major axis dimension for non-circular cables), wire of $(1,0 \pm 0,3)$ mm in diameter shall be used. For cables above 50 mm diameter (or major axis dimension for non-circular cables), wire of $(1,5 \pm 0,3)$ mm in diameter shall be used. Mount all test pieces on the ladder with the bending (due to bending of the cable on the reel), if any, in the same direction, towards the back side of the test chamber as much as possible, see also IEC 60332-3-24 [4].

2) The test pieces were mounted according to the cable overall diameter.

Cable overall diameter	Mounted method
Between 5mm and 20mm	One cable diameter spacing between cables.

3) Number of layers: 1

IV. Test results

Parameters	1 st
Peak HRR (kW)	8.2
Peak SPR (m ² /s)	0.02
THR _{1200s} (MJ)	2.3
TSP _{1200s} (m ²)	3.2
FIGRA (W/s)	60.8
FS (m)	0.27
Flaming particles or droplets	No

Note:

Peak HRR----Maximum value of heat release, excluding the burner output, determined during the whole burner application time, averaged over 30 s expressed in [kW]

Peak SPR---- Maximum value of smoke production, determined during the whole burner application time,



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.3, East Hehai Road, Tianning District, Changzhou, Jiangsu Province, China

t (86-519) 8380 5217

f (86-519) 8380 5219

www.sgsgroup.com.cn

中国·江苏·常州市天宁区河海东路3号

t (86-519) 8380 5217

f (86-519) 8380 5219

sgs.china@sgs.com

Test Report

No. CZFS2402000144FF

Date: Mar. 5, 2024

Page 4 of 5

averaged over 60 s, expressed in [m²/s]

*THR*_{1200s} ---- Total heat release (HRR_{sm30}) from test start until end of test, excluding contribution from ignition source [MJ]

*TSP*_{1200s} ---- Total smoke production (*SPR*_{sm60}) from test start until end of test [m²]

FIGRA ---- Fire growth rate index used for classification purposes [W/s];

FS ---- Vertical flame spread [m] equals the damaged length of the sample

Statements:

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test. They are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

The specimen was supplied by the sponsor and SGS-CSTC Standards Technical Services (Changzhou) Co., Ltd was not involved in any selection or sampling procedure.

Within the territory of the people's Republic of China, this report is only used for domestic customers' scientific research, teaching, internal quality control and product R & D, and does not have the role of social certification.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.3, East Hehai Road, Tianning District, Changzhou, Jiangsu Province, China
中国·江苏·常州市天宁区河海东路3号

t (86-519) 8380 5217
t (86-519) 8380 5217

f (86-519) 8380 5219
f (86-519) 8380 5219

www.sgsgroup.com.cn
sgs.china@sgs.com

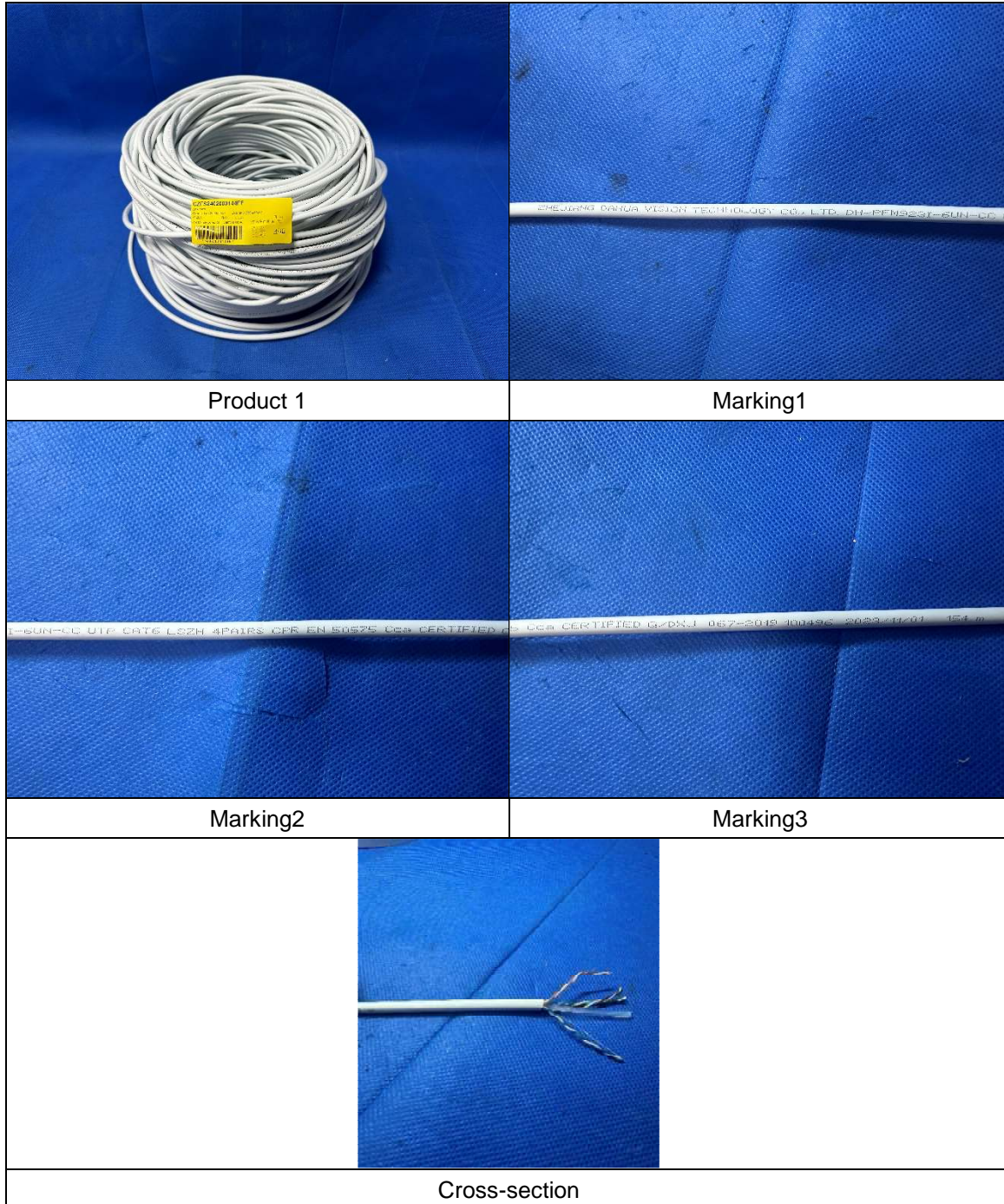
Test Report

No. CZFS2402000144FF

Date: Mar. 5, 2024

Page 5 of 5

Photo Appendix:



SGS authenticate the photo on original report only

End of Report



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.3, East Hehai Road, Tiansheng District, Changzhou, Jiangsu Province, China
中国·江苏·常州市天宁区河海东路3号

t (86-519) 8380 5217
t (86-519) 8380 5217

f (86-519) 8380 5219
f (86-519) 8380 5219

www.sgsgroup.com.cn
sgs.china@sgs.com

Member of the SGS Group (SGS SA)