



ELECTROTECHNICAL TESTING INSTITUTE
Pod Lisem 129
171 02 Praha 8 - Troja
Notified Testing laboratory No. 1014
No. of the Test Report: 703845-01/01

No. of pages: 3
No. of annexes/No. of an. pages: 0/0

Issued: 23. 10. 2017



TEST REPORT FOR REACTION TO FIRE

Name of product: Coaxial Cable
Type of product: KOKA6 / RG6
Ratings: E_{ca}
Part number: -
Manufacturer: ZHEJIANG TIANJIE INDUSTRIAL CORP,
Linglong Economic Development Zone,
Lin'an Hangzhou China, People republic of China
Production site: same as manufacturer
Ordering firm: ZHEJIANG TIANJIE INDUSTRIAL CORP,
Linglong Economic Development Zone,
Lin'an Hangzhou China, People republic of China
Number of tested samples: 1
Samples submitted on: 18. 10. 2017
Location of testing: EZÚ
Tested from 18. 10. 2017 **through** 18. 10. 2017
Other data: -
The product was tested according to: EN 60332-1-1:04+A1:15,
EN 60332-1-2:04+A1:15+A11:16

Compiled by: **Břetislav Dušek**



Approved by: **Jan Tůma**
Testing laboratory technical manager

Test results stated in the test report apply only to the tested subject and unless specified otherwise in the test report, the tests were performed using the method and under the conditions determined in the test regulations, technical norm, instructions for use and information provided by the manufacturer on the tested subject and using accessories required by the manufacturer.
Without written consent, this report must not be reproduced in any other way than as a whole.
When referring to services of EZÚ, s. p., as an accredited laboratory, the customer specified in this report must use the following formulation:
"Tested by test laboratory no. 1056, accredited by CAI".

Phone: +420 266 104 111

Fax: +420 284 680 070

www.ezu.cz

Test	Prescribed			Observed
Test on complete cable				
KOKA6 / RG6				
Test for vertical flame propagation EN 60332-1-2, article 5 EN 60332-1-2, article 6 - outer diameter - flame application time - not damage area from lower edge of the top support - damage area from lower edge of the top support - flame spread H		[mm]		6,5
		[s]	60	60
	min.	[mm]	50	358
	max. ≤	[mm] [mm]	540 425	471 113

Test type: **Classification of electric cables according to reaction to fire**

Standard: EN 50575, EN 13501-6,

EN 60332-1-2, EN 60332-1-1

Test of vertical flame spread on a single cable

Cable type: **KOKA6 / RG6**

Cable producer: ZHEJIANG TIANJIE INDUSTRIAL CORP

date of test: 18. 10. 2017

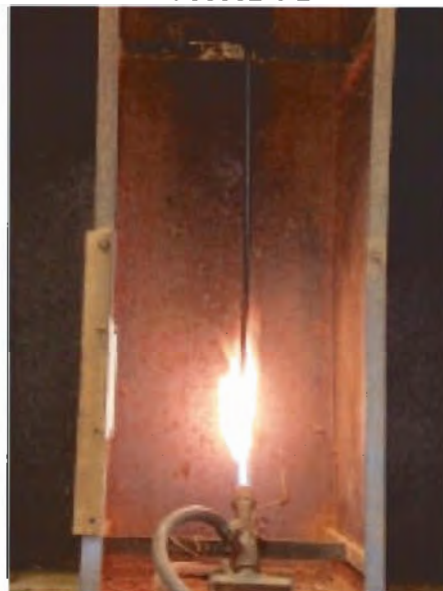
Classification according to EN 13501-6:

E_{ca}

EN 60332-1-2



Before test



Course of the tests



After test

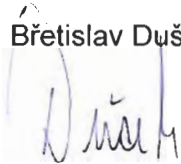
Measuring and testing equipment

Used	Prescribed	Observed
X	Metter 100 cm	N 400013
X	Slide caliper	259
X	Table stopwatch	551705
X	Test under fire conditions	20 780

If an uncertainty of measurement is given, the expanded a measurement uncertainty is the product of the standard measurement uncertainty and coverage factor $k = 2$, which corresponds to a coverage probability of approximately 95% in a normal distribution.

Laboratory conditions during the test were in accordance with specifications of the standards listed on the first page of this test report.

Compiled by: Břetislav Dušek





ELECTROTECHNICAL TESTING INSTITUTE
Pod Lisem 129
171 02 Praha 8 - Troja
Notified Testing laboratory No. 1014
No. of the Test Report: 703845-01/02

No. of pages: 3
No. of annexes/No. of an. pages: 0/0

Issued: 23. 10. 2017



TEST REPORT FOR REACTION TO FIRE

Name of product: Coaxial Cable
Type of product: TWIN UC23 / TWIN RG59
Ratings: E_{ca}
Part number: -
Manufacturer: ZHEJIANG TIANJIE INDUSTRIAL CORP,
Linglong Economic Development Zone,
Lin'an Hangzhou China, People republic of China
Production site: same as manufacturer
Ordering firm: ZHEJIANG TIANJIE INDUSTRIAL CORP,
Linglong Economic Development Zone,
Lin'an Hangzhou China, People republic of China
Number of tested samples: 1
Samples submitted on: 18. 10. 2017
Location of testing: EZÚ
Tested from 18. 10. 2017 **through** 18. 10. 2017
Other data: -
The product was tested according to: EN 60332-1-1:04+A1:15,
EN 60332-1-2:04+A1:15+A11:16

Compiled by: **Břetislav Dušek**



Approved by: **Jan Tůma**
Testing laboratory technical manager

Test results stated in the test report apply only to the tested subject and unless specified otherwise in the test report, the tests were performed using the method and under the conditions determined in the test regulations, technical norm, instructions for use and information provided by the manufacturer on the tested subject and using accessories required by the manufacturer.
Without written consent, this report must not be reproduced in any other way than as a whole.
When referring to services of EZÚ, s. p., as an accredited laboratory, the customer specified in this report must use the following formulation:
"Tested by test laboratory no. 1056, accredited by CAI".

Phone: +420 266 104 111

Fax: +420 284 680 070

www.ezu.cz

Test	Prescribed			Observed
Test on complete cable				
TWIN UC23 / TWIN RG59				
Test for vertical flame propagation EN 60332-1-2, article 5 EN 60332-1-2, article 6 - outer diameter - flame application time - not damage area from lower edge of the top support - damage area from lower edge of the top support - flame spread H		[mm]		10,7
		[s]	60	60
	min.	[mm]	50	311
	max.	[mm]	540	474
	≤	[mm]	425	163

Test type: **Classification of electric cables according to reaction to fire**

Standard: EN 50575, EN 13501-6,

EN 60332-1-2, EN 60332-1-1

Test of vertical flame spread on a single cable

Cable type: **TWIN UC23 / TWIN RG59**

Cable producer: ZHEJIANG TIANJIE INDUSTRIAL CORP

date of test: 18. 10. 2017

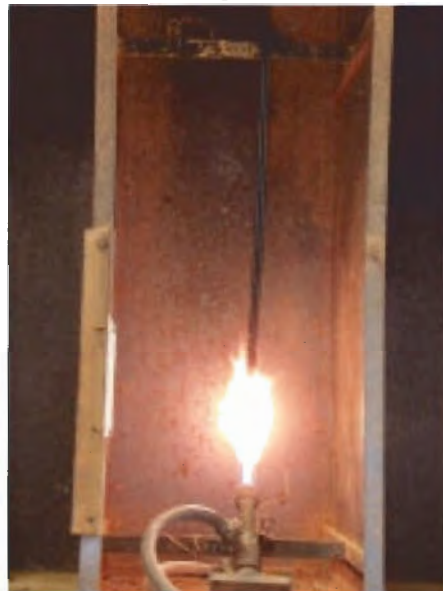
Classification according to EN 13501-6:

E_{ca}

EN 60332-1-2



Before test



Course of the tests



After test

Measuring and testing equipment

Used	Prescribed	Observed
X	Metter 100 cm	N 400013
X	Slide caliper	259
X	Table stopwatch	551705
X	Test under fire conditions	20 780

If an uncertainty of measurement is given, the expanded a measurement uncertainty is the product of the standard measurement uncertainty and coverage factor $k = 2$, which corresponds to a coverage probability of approximately 95% in a normal distribution.

Laboratory conditions during the test were in accordance with specifications of the standards listed on the first page of this test report.

Compiled by: **Břetislav Dušek**





ELECTROTECHNICAL TESTING INSTITUTE
Pod Lisem 129
171 02 Praha 8 - Troja
Notified Testing laboratory No. 1014
No. of the Test Report: 703845-01/03

No. of pages: 3
No. of annexes/No. of an. pages: 0/0

Issued: 23. 10. 2017



TEST REPORT FOR REACTION TO FIRE

Name of product: Coaxial Cable
Type of product: KOKA30 / RG179
Ratings: E_{ca}
Part number: -
Manufacturer: ZHEJIANG TIANJIE INDUSTRIAL CORP,
Linglong Economic Development Zone,
Lin'an Hangzhou China, People republic of China
Production site: same as manufacturer
Ordering firm: ZHEJIANG TIANJIE INDUSTRIAL CORP,
Linglong Economic Development Zone,
Lin'an Hangzhou China, People republic of China
Number of tested samples: 1
Samples submitted on: 18. 10. 2017
Location of testing: EZÚ
Tested from 18. 10. 2017 **through** 18. 10. 2017
Other data: -
The product was tested according to: EN 60332-1-1:04+A1:15,
EN 60332-1-2:04+A1:15+A11:16

Compiled by: **Břetislav Dušek**



Approved by: **Jan Tůma**
Testing laboratory technical manager

Test results stated in the test report apply only to the tested subject and unless specified otherwise in the test report, the tests were performed using the method and under the conditions determined in the test regulations, technical norm, instructions for use and information provided by the manufacturer on the tested subject and using accessories required by the manufacturer.

Without written consent, this report must not be reproduced in any other way than as a whole.

When referring to services of EZÚ, s. p., as an accredited laboratory, the customer specified in this report must use the following formulation: "Tested by test laboratory no. 1056, accredited by CAI".

Phone: +420 266 104 111

Fax: +420 284 680 070

www.ezu.cz

Test	Prescribed			Observed
Test on complete cable				
KOKA30 / RG179				
Test for vertical flame propagation EN 60332-1-2, article 5 EN 60332-1-2, article 6 - outer diameter - flame application time - not damage area from lower edge of the top support - damage area from lower edge of the top support - flame spread H		[mm]		3,6
		[s]	60	60
	min.	[mm]	50	367
	max.	[mm]	540	483
	≤	[mm]	425	116

Test type: **Classification of electric cables according to reaction to fire**

Standard: EN 50575, EN 13501-6,

EN 60332-1-2, EN 60332-1-1

Test of vertical flame spread on a single cable

Cable type: **KOKA30 / RG179**

Cable producer: ZHEJIANG TIANJIE INDUSTRIAL CORP

date of test: 18. 10. 2017

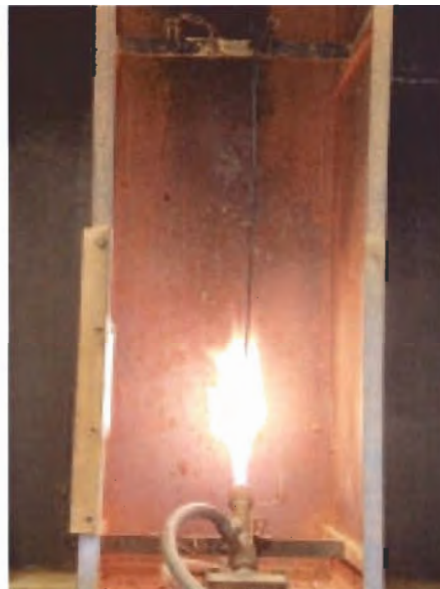
Classification according to EN 13501-6:

E_{ca}

EN 60332-1-2



Before test



Course of the tests



After test

Measuring and testing equipment

Used	Prescribed	Observed
X	Metter 100 cm	N 400013
X	Slide caliper	259
X	Table stopwatch	551705
X	Test under fire conditions	20 780

If an uncertainty of measurement is given, the expanded a measurement uncertainty is the product of the standard measurement uncertainty and coverage factor $k = 2$, which corresponds to a coverage probability of approximately 95% in a normal distribution.

Laboratory conditions during the test were in accordance with specifications of the standards listed on the first page of this test report.

Compiled by: **Břetislav Dušek**





ELECTROTECHNICAL TESTING INSTITUTE
Pod Lisem 129
171 02 Praha 8 – Troja
Notified Testing Laboratory No. 1014
No. of the Test Report: 704151-01/01

No. of pages: 3
No. of annexes/No. of an. pages: 0/0

Issued: 20. 12. 2017



TEST REPORT FOR REACTION TO FIRE

Name of product: Coaxial cable
Type of product: RG59
Ratings: E_{ca}
Part number: -
Manufacturer: ZHEJIANG TIANJIE INDUSTRIAL CORP, Linglong Economic Development Zone, Lin'an Hangzhou China, People's Republic of China
Production site: -
Ordering firm: ZHEJIANG TIANJIE INDUSTRIAL CORP, Linglong Economic Development Zone, Lin'an Hangzhou China, People's Republic of China
Number of tested samples: 1
Samples submitted on: 15. 12. 2017
Location of testing: EZÚ
Tested from 19. 12. 2017 **through** 20. 12. 2017
Other data: -
The product was tested according to: EN 60332-1-2:04+A1:15+A11:16,
EN 60332-1-1:04+A1:15

Compiled by: Vladimír Moždík



Approved by: Jan Tůma
Testing laboratory technical manager

Test results stated in the test report apply only to the tested subject and unless specified otherwise in the test report, the tests were performed using the method and under the conditions determined in the test regulations, technical norm, instructions for use and information provided by the manufacturer on the tested subject and using accessories required by the manufacturer.
Without written consent, this report must not be reproduced in any other way than as a whole.
When referring to services of EZÚ, s. p., as an accredited laboratory, the customer specified in this report must use the following formulation: "Tested by test laboratory no. 1056, accredited by CAI".

Test	Prescribed			Observed
Test on complete cable				
RG59 B/U 75 Ohm, Black				
Test for vertical flame propagation EN 60332-1-2, article 5 EN 60332-1-2, article 6				
- outer diameter		[mm]		6,0
- flame application time		[s]	60	60
- not damage area from lower edge of the top support	min.	[mm]	50	376
- damage area from lower edge of the top support	max.	[mm]	540	493
- flame spread H	≤	[mm]	425	117

Test type: **Classification of electric cables according to reaction to fire**

Standard: EN 50575, EN 13501-6,
EN 60332-1-2, EN 60332-1-1

Test of vertical flame spread on a single cable

Cable type: **RG59 B/U 75 Ohm, Black**

Cable producer: ZHEJIANG TIANJIE INDUSTRIAL CORP

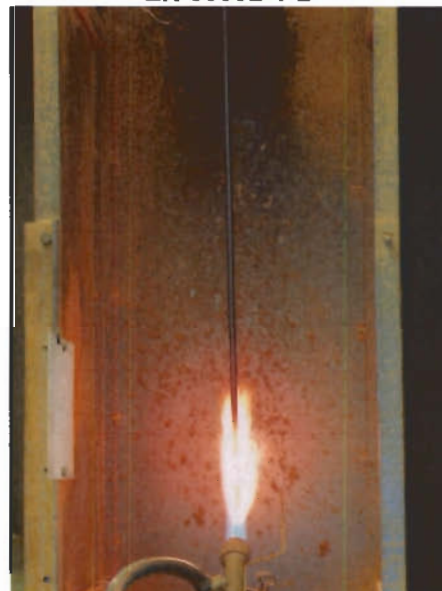
date of test: 19. 12. 2017

Classification according to EN 13501-6: E_{ca}

EN 60332-1-2



Before test



Course of the tests



After test

Measuring and testing equipment

Used	Prescribed	Observed
X	Metter 100 cm	N 400013
X	Slide caliper	259
X	Table stopwatch	551705
X	Test under fire conditions	20 780

If an uncertainty of measurement is given, the expanded a measurement uncertainty is the product of the standard measurement uncertainty and coverage factor $k = 2$, which corresponds to a coverage probability of approximately 95% in a normal distribution.

Laboratory conditions during the test were in accordance with specifications of the standards listed on the first page of this test report.



Compiled by: Vladimír Moždík



ELECTROTECHNICAL TESTING INSTITUTE
Pod Lisem 129
171 02 Praha 8 – Troja
Notified Testing Laboratory No. 1014
No. of the Test Report: 704151-01/02


No. of pages: 3
No. of annexes/No. of an. pages: 0/0

Issued: 20. 12. 2017



TEST REPORT FOR REACTION TO FIRE

Name of product: Coaxial cable
Type of product: VIDEO 0,6/3,7
Ratings: E_{ca}
Part number: -
Manufacturer: ZHEJIANG TIANJIE INDUSTRIAL CORP, Linglong Economic Development Zone, Lin'an Hangzhou China, People's Republic of China
Production site: -
Ordering firm: ZHEJIANG TIANJIE INDUSTRIAL CORP, Linglong Economic Development Zone, Lin'an Hangzhou China, People's Republic of China
Number of tested samples: 1
Samples submitted on: 15. 12. 2017
Location of testing: EZÚ
Tested from 19. 12. 2017 **through** 20. 12. 2017
Other data: -
The product was tested according to: EN 60332-1-2:04+A1:15+A11:16,
EN 60332-1-1:04+A1:15


Compiled by: Vladimír Moždík




Approved by: Jan Tůma
Testing laboratory technical manager

Test results stated in the test report apply only to the tested subject and unless specified otherwise in the test report, the tests were performed using the method and under the conditions determined in the test regulations, technical norm, instructions for use and information provided by the manufacturer on the tested subject and using accessories required by the manufacturer.
Without written consent, this report must not be reproduced in any other way than as a whole.
When referring to services of EZÚ, s. p., as an accredited laboratory, the customer specified in this report must use the following formulation: "Tested by test laboratory no. 1056, accredited by CAI".

Test	Prescribed			Observed
Test on complete cable				
VIDEO 0,6/3,7 75 Ohm, Green				
Test for vertical flame propagation EN 60332-1-2, article 5 EN 60332-1-2, article 6 - outer diameter - flame application time - not damage area from lower edge of the top support - damage area from lower edge of the top support - flame spread H		[mm]		5,9
		[s]	60	60
	min.	[mm]	50	141
	max.	[mm]	540	488
	≤	[mm]	425	347

Test type: **Classification of electric cables according to reaction to fire**

Standard: EN 50575, EN 13501-6,

EN 60332-1-2, EN 60332-1-1

Test of vertical flame spread on a single cable

Cable type: **VIDEO 0,6/3,7 75 Ohm, Green**

Cable producer: ZHEJIANG TIANJIE INDUSTRIAL CORP

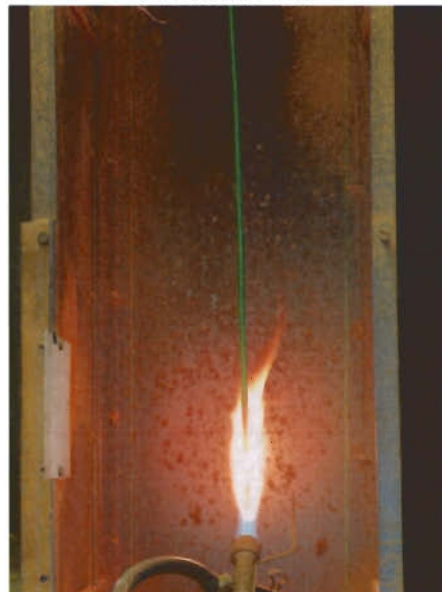
date of test: 19. 12. 2017

Classification according to EN 13501-6: E_{ca}

EN 60332-1-2



Before test



Course of the tests



After test

Measuring and testing equipment

Used	Prescribed	Observed
X	Metter 100 cm	N 400013
X	Slide caliper	259
X	Table stopwatch	551705
X	Test under fire conditions	20 780

If an uncertainty of measurement is given, the expanded a measurement uncertainty is the product of the standard measurement uncertainty and coverage factor $k = 2$, which corresponds to a coverage probability of approximately 95% in a normal distribution.

Laboratory conditions during the test were in accordance with specifications of the standards listed on the first page of this test report.



Compiled by: Vladimír Moždík



ELECTROTECHNICAL TESTING INSTITUTE
Pod Lisem 129
171 02 Praha 8 – Troja
Notified Testing Laboratory No. 1014
No. of the Test Report: 704151-01/03


No. of pages: 3
No. of annexes/No. of an. pages: 0/0

Issued: 20. 12. 2017



TEST REPORT FOR REACTION TO FIRE

Name of product: Control cable
Type of product: PROFIBUS L2-BUS
Ratings: E_{ca}
Part number: -
Manufacturer: ZHEJIANG TIANJIE INDUSTRIAL CORP, Linglong Economic Development Zone, Lin'an Hangzhou China, People's Republic of China
Production site: -
Ordering firm: ZHEJIANG TIANJIE INDUSTRIAL CORP, Linglong Economic Development Zone, Lin'an Hangzhou China, People's Republic of China
Number of tested samples: 1
Samples submitted on: 15. 12. 2017
Location of testing: EZÚ
Tested from 19. 12. 2017 **through** 20. 12. 2017
Other data: -
The product was tested according to: EN 60332-1-2:04+A1:15+A11:16,
EN 60332-1-1:04+A1:15


Compiled by: Vladimír Moždík




Approved by: Jan Tůma
Testing laboratory technical manager

Test results stated in the test report apply only to the tested subject and unless specified otherwise in the test report, the tests were performed using the method and under the conditions determined in the test regulations, technical norm, instructions for use and information provided by the manufacturer on the tested subject and using accessories required by the manufacturer.
Without written consent, this report must not be reproduced in any other way than as a whole.
When referring to services of EZÚ, s. p., as an accredited laboratory, the customer specified in this report must use the following formulation: "Tested by test laboratory no. 1056, accredited by CAI".

Test	Prescribed			Observed
Test on complete cable				
PROFIBUS L2-BUS 1x2x0,64, Violet				
Test for vertical flame propagation EN 60332-1-2, article 5 EN 60332-1-2, article 6				
- outer diameter		[mm]		7,8
- flame application time		[s]	60	60
- not damage area from lower edge of the top support	min.	[mm]	50	339
- damage area from lower edge of the top support	max.	[mm]	540	487
- flame spread H	≤	[mm]	425	148

Test type: **Classification of electric cables according to reaction to fire**

Standard: EN 50575, EN 13501-6,

EN 60332-1-2, EN 60332-1-1

Test of vertical flame spread on a single cable

Cable type: **PROFIBUS L2-BUS 1x2x0,64, Violet**

Cable producer: ZHEJIANG TIANJIE INDUSTRIAL CORP

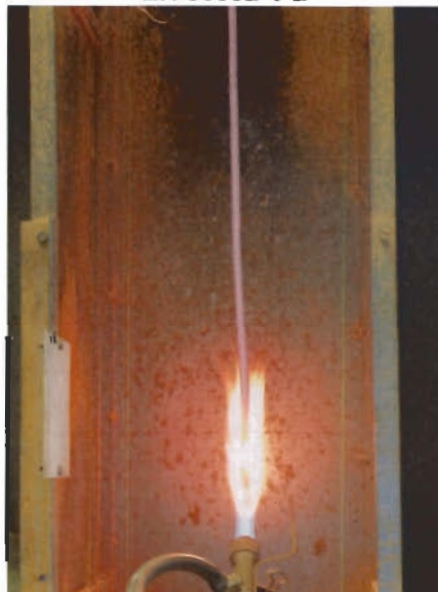
date of test: 19. 12. 2017

Classification according to EN 13501-6: E_{ca}

EN 60332-1-2



Before test



Course of the tests



After test

Measuring and testing equipment

Used	Prescribed	Observed
X	Metter 100 cm	N 400013
X	Slide caliper	259
X	Table stopwatch	551705
X	Test under fire conditions	20 780

If an uncertainty of measurement is given, the expanded a measurement uncertainty is the product of the standard measurement uncertainty and coverage factor $k = 2$, which corresponds to a coverage probability of approximately 95% in a normal distribution.

Laboratory conditions during the test were in accordance with specifications of the standards listed on the first page of this test report.



Compiled by: Vladimír Moždík



ELECTROTECHNICAL TESTING INSTITUTE
Pod Lisem 129
171 02 Praha 8 – Troja
Notified Testing Laboratory No. 1014
No. of the Test Report: 704151-01/04

No. of pages: 3
No. of annexes/No. of an. pages: 0/0

Issued: 20. 12. 2017



TEST REPORT FOR REACTION TO FIRE

Name of product: Coaxial cable
Type of product: COAX 10/RG6
Ratings: E_{ca}
Part number: -
Manufacturer: ZHEJIANG TIANJIE INDUSTRIAL CORP, Linglong Economic Development Zone, Lin'an Hangzhou China, People's Republic of China
Production site: -
Ordering firm: ZHEJIANG TIANJIE INDUSTRIAL CORP, Linglong Economic Development Zone, Lin'an Hangzhou China, People's Republic of China
Number of tested samples: 1
Samples submitted on: 15. 12. 2017
Location of testing: EZÚ
Tested from 19. 12. 2017 **through** 20. 12. 2017
Other data: -
The product was tested according to: EN 60332-1-2:04+A1:15+A11:16,
EN 60332-1-1:04+A1:15

Compiled by: Vladimír Moždík



Approved by: Jan Tůma
Testing laboratory technical manager

Test results stated in the test report apply only to the tested subject and unless specified otherwise in the test report, the tests were performed using the method and under the conditions determined in the test regulations, technical norm, instructions for use and information provided by the manufacturer on the tested subject and using accessories required by the manufacturer.

Without written consent, this report must not be reproduced in any other way than as a whole.

When referring to services of EZÚ, s. p., as an accredited laboratory, the customer specified in this report must use the following formulation: "Tested by test laboratory no. 1056, accredited by CAI".

Test	Prescribed			Observed
Test on complete cable				
COAX 10/RG6, White				
Test for vertical flame propagation EN 60332-1-2, article 5 EN 60332-1-2, article 6				
- outer diameter		[mm]		6,9
- flame application time		[s]	60	60
- not damage area from lower edge of the top support	min.	[mm]	50	383
- damage area from lower edge of the top support	max.	[mm]	540	491
- flame spread H	≤	[mm]	425	108

Test type: **Classification of electric cables according to reaction to fire**

Standard: EN 50575, EN 13501-6,
EN 60332-1-2, EN 60332-1-1

Test of vertical flame spread on a single cable

Cable type: **COAX 10/RG6, White**

Cable producer: ZHEJIANG TIANJIE INDUSTRIAL CORP

date of test: 19. 12. 2017

Classification according to EN 13501-6: E_{ca}

EN 60332-1-2



Before test



Course of the tests



After test

Measuring and testing equipment

Used	Prescribed	Observed
X	Metter 100 cm	N 400013
X	Slide caliper	259
X	Table stopwatch	551705
X	Test under fire conditions	20 780

If an uncertainty of measurement is given, the expanded a measurement uncertainty is the product of the standard measurement uncertainty and coverage factor $k = 2$, which corresponds to a coverage probability of approximately 95% in a normal distribution.

Laboratory conditions during the test were in accordance with specifications of the standards listed on the first page of this test report.



Compiled by: Vladimír Moždík



Elektrotechnický zkušební ústav, s.p.
Pod lisem 129/2
171 02 Praha 8 – Troja
Notified Testing Laboratory No. 1014
No. of the Test Report: 704151-01/05

No. of pages: 3
No. of annexes/No. of an. pages: 0/0

Issued: 8. 1. 2018



TEST REPORT FOR REACTION TO FIRE

Name of product: Coaxial cable
Type of product: 17VATC
Ratings: E_{ca}
Part number: -
Manufacturer: ZHEJIANG TIANJIE INDUSTRIAL CORP, Linglong Economic Development Zone, Lin'an Hangzhou China, People's Republic of China
Production site: -
Ordering firm: ZHEJIANG TIANJIE INDUSTRIAL CORP, Linglong Economic Development Zone, Lin'an Hangzhou China, People's Republic of China
Number of tested samples: 1
Samples submitted on: 3. 1. 2018
Location of testing: EZÚ
Tested from 4. 1. 2018 **through** 8. 1. 2018
Other data: -
The product was tested according to: EN 60332-1-2:04+A1:15+A11:16,
EN 60332-1-1:04+A1:15

Compiled by: Vladimír Moždík



Approved by: Jan Tůma
Testing laboratory technical manager

Test results stated in the test report apply only to the tested subject and unless specified otherwise in the test report, the tests were performed using the method and under the conditions determined in the test regulations, technical norm, instructions for use and information provided by the manufacturer on the tested subject and using accessories required by the manufacturer.

Without written consent, this report must not be reproduced in any other way than as a whole.

When referring to services of EZÚ, s. p., as an accredited laboratory, the customer specified in this report must use the following formulation: "Tested by test laboratory no. 1056, accredited by CAI".

Test	Prescribed			Observed
Test on complete cable				
17VATC, Black				
Test for vertical flame propagation EN 60332-1-2, article 5 EN 60332-1-2, article 6				
- outer diameter		[mm]		6,8
- flame application time		[s]	60	60
- not damage area from lower edge of the top support	min.	[mm]	50	356
- damage area from lower edge of the top support	max.	[mm]	540	495
- flame spread H	≤	[mm]	425	139

Test type: **Classification of electric cables according to reaction to fire**

Standard: EN 50575, EN 13501-6,
EN 60332-1-2, EN 60332-1-1

Test of vertical flame spread on a single cable

Cable type: **17VATC, Black**

Cable producer: ZHEJIANG TIANJIE INDUSTRIAL CORP

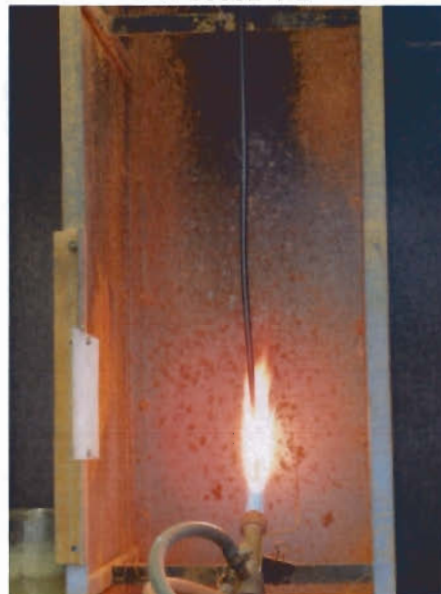
date of test: 4. 1. 2018

Classification according to EN 13501-6: E_{ca}

EN 60332-1-2



Before test



Course of the tests



After test

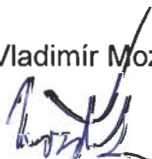
Measuring and testing equipment

Used	Prescribed	Observed
X	Metter 100 cm	N 400013
X	Slide caliper	259
X	Table stopwatch	551705
X	Test under fire conditions	20 780

If an uncertainty of measurement is given, the expanded a measurement uncertainty is the product of the standard measurement uncertainty and coverage factor $k = 2$, which corresponds to a coverage probability of approximately 95% in a normal distribution.

Laboratory conditions during the test were in accordance with specifications of the standards listed on the first page of this test report.

Compiled by: Vladimír Moždík





Elektrotechnický zkušební ústav, s.p.
Pod lisem 129/2
171 02 Praha 8 – Troja
Notified Testing Laboratory No. 1014
No. of the Test Report: 704151-01/06

No. of pages: 3
No. of annexes/No. of an. pages: 0/0

Issued: 8. 1. 2018



TEST REPORT FOR REACTION TO FIRE

Name of product: Coaxial cable
Type of product: 17VATC/KOKA 17VATC
Ratings: E_{ca}
Part number: -
Manufacturer: ZHEJIANG TIANJIE INDUSTRIAL CORP, Linglong Economic Development Zone, Lin'an Hangzhou China, People's Republic of China
Production site: -
Ordering firm: ZHEJIANG TIANJIE INDUSTRIAL CORP, Linglong Economic Development Zone, Lin'an Hangzhou China, People's Republic of China
Number of tested samples: 1
Samples submitted on: 3. 1. 2018
Location of testing: EZÚ
Tested from 4. 1. 2018 through 8. 1. 2018
Other data: -
The product was tested according to: EN 60332-1-2:04+A1:15+A11:16,
EN 60332-1-1:04+A1:15

Compiled by: Vladimír Moždík



Approved by: Jan Tůma
Testing laboratory technical manager

*Test results stated in the test report apply only to the tested subject and unless specified otherwise in the test report, the tests were performed using the method and under the conditions determined in the test regulations, technical norm, instructions for use and information provided by the manufacturer on the tested subject and using accessories required by the manufacturer.
Without written consent, this report must not be reproduced in any other way than as a whole.
When referring to services of EZÚ, s. p., as an accredited laboratory, the customer specified in this report must use the following formulation: "Tested by test laboratory no. 1056, accredited by CAI".*

Test	Prescribed			Observed
Test on complete cable				
17VATC/KOKA 17VATC, Black				
Test for vertical flame propagation EN 60332-1-2, article 5 EN 60332-1-2, article 6				
- outer diameter		[mm]		6,7
- flame application time		[s]	60	60
- not damage area from lower edge of the top support	min.	[mm]	50	364
- damage area from lower edge of the top support	max.	[mm]	540	490
- flame spread H	≤	[mm]	425	126

Test type: **Classification of electric cables according to reaction to fire**

Standard: EN 50575, EN 13501-6,
EN 60332-1-2, EN 60332-1-1

Test of vertical flame spread on a single cable

Cable type: **17VATC/KOKA 17VATC, Black**

Cable producer: ZHEJIANG TIANJIE INDUSTRIAL CORP

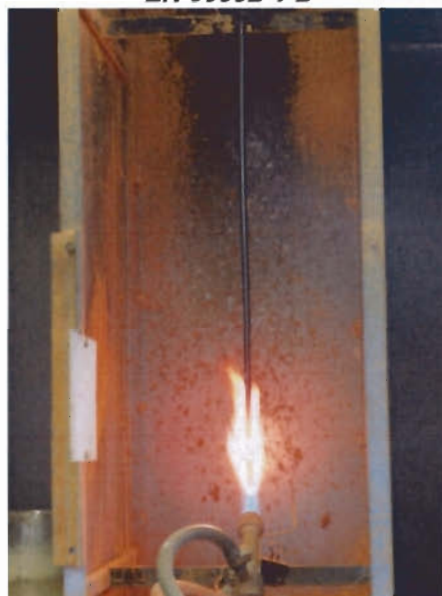
date of test: 4. 1. 2018

Classification according to EN 13501-6: E_{ca}

EN 60332-1-2



Before test



Course of the tests



After test

Measuring and testing equipment

Used	Prescribed	Observed
X	Metter 100 cm	N 400013
X	Slide caliper	259
X	Table stopwatch	551705
X	Test under fire conditions	20 780

If an uncertainty of measurement is given, the expanded a measurement uncertainty is the product of the standard measurement uncertainty and coverage factor $k = 2$, which corresponds to a coverage probability of approximately 95% in a normal distribution.

Laboratory conditions during the test were in accordance with specifications of the standards listed on the first page of this test report.

Compiled by: Vladimír Moždík





Elektrotechnický zkušební ústav, s.p.
Pod lisem 129/2
171 02 Praha 8 – Troja
Notified Testing Laboratory No. 1014
No. of the Test Report: 704151-01/07

No. of pages: 3
No. of annexes/No. of an. pages: 0/0

Issued: 8. 1. 2018



TEST REPORT FOR REACTION TO FIRE

Name of product: Coaxial cable
Type of product: UC23/KOKA50/RG59
Ratings: E_{ca}
Part number: -
Manufacturer: ZHEJIANG TIANJIE INDUSTRIAL CORP, Linglong Economic Development Zone, Lin'an Hangzhou China, People's Republic of China
Production site: -
Ordering firm: ZHEJIANG TIANJIE INDUSTRIAL CORP, Linglong Economic Development Zone, Lin'an Hangzhou China, People's Republic of China
Number of tested samples: 1
Samples submitted on: 3. 1. 2018
Location of testing: EZÚ
Tested from 4. 1. 2018 **through** 8. 1. 2018
Other data: -
The product was tested according to: EN 60332-1-2:04+A1:15+A11:16,
EN 60332-1-1:04+A1:15

Compiled by: Vladimír Moždík



Approved by: Jan Tůma
Testing laboratory technical manager

Test results stated in the test report apply only to the tested subject and unless specified otherwise in the test report, the tests were performed using the method and under the conditions determined in the test regulations, technical norm, instructions for use and information provided by the manufacturer on the tested subject and using accessories required by the manufacturer.
Without written consent, this report must not be reproduced in any other way than as a whole.
When referring to services of EZÚ, s. p., as an accredited laboratory, the customer specified in this report must use the following formulation: "Tested by test laboratory no. 1056, accredited by CAI".

Test	Prescribed			Observed
Test on complete cable				
UC23/KOKA50/RG59, Black				
Test for vertical flame propagation EN 60332-1-2, article 5 EN 60332-1-2, article 6				
- outer diameter		[mm]		5,2
- flame application time		[s]	60	60
- not damage area from lower edge of the top support	min.	[mm]	50	367
- damage area from lower edge of the top support	max.	[mm]	540	495
- flame spread H	≤	[mm]	425	128

Test type: **Classification of electric cables according to reaction to fire**

Standard: EN 50575, EN 13501-6,

EN 60332-1-2, EN 60332-1-1

Test of vertical flame spread on a single cable

Cable type: **UC23/KOKA50/RG59, Black**

Cable producer: ZHEJIANG TIANJIE INDUSTRIAL CORP

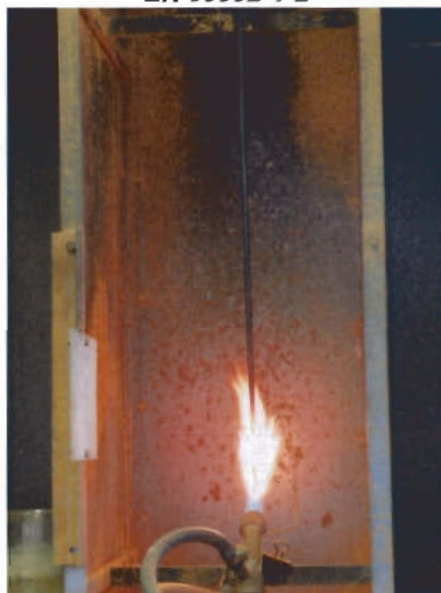
date of test: 4. 1. 2018

Classification according to EN 13501-6: E_{ca}

EN 60332-1-2



Before test



Course of the tests



After test

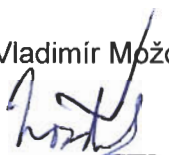
Measuring and testing equipment

Used	Prescribed	Observed
X	Metter 100 cm	N 400013
X	Slide caliper	259
X	Table stopwatch	551705
X	Test under fire conditions	20 780

If an uncertainty of measurement is given, the expanded a measurement uncertainty is the product of the standard measurement uncertainty and coverage factor $k = 2$, which corresponds to a coverage probability of approximately 95% in a normal distribution.

Laboratory conditions during the test were in accordance with specifications of the standards listed on the first page of this test report.

Compiled by: Vladimír Moždík





Elektrotechnický zkušební ústav, s.p.
Pod lisem 129/2
171 02 Praha 8 – Troja
Notified Testing Laboratory No. 1014
No. of the Test Report: 704151-01/08

No. of pages: 3
No. of annexes/No. of an. pages: 0/0

Issued: 8. 1. 2018



TEST REPORT FOR REACTION TO FIRE

Name of product: Coaxial cable
Type of product: RG6
Ratings: E_{ca}
Part number: -
Manufacturer: ZHEJIANG TIANJIE INDUSTRIAL CORP, Linglong Economic Development Zone, Lin'an Hangzhou China, People's Republic of China
Production site: -
Ordering firm: ZHEJIANG TIANJIE INDUSTRIAL CORP, Linglong Economic Development Zone, Lin'an Hangzhou China, People's Republic of China
Number of tested samples: 1
Samples submitted on: 3. 1. 2018
Location of testing: EZÚ
Tested from 4. 1. 2018 **through** 8. 1. 2018
Other data: -
The product was tested according to: EN 60332-1-2:04+A1:15+A11:16,
EN 60332-1-1:04+A1:15

Compiled by: Vladimír Moždík



Approved by: Jan Tůma
Testing laboratory technical manager

*Test results stated in the test report apply only to the tested subject and unless specified otherwise in the test report, the tests were performed using the method and under the conditions determined in the test regulations, technical norm, instructions for use and information provided by the manufacturer on the tested subject and using accessories required by the manufacturer.
Without written consent, this report must not be reproduced in any other way than as a whole.
When referring to services of EZÚ, s. p., as an accredited laboratory, the customer specified in this report must use the following formulation:
"Tested by test laboratory no. 1056, accredited by CAI".*

Test	Prescribed			Observed
Test on complete cable				
RG6, Black				
Test for vertical flame propagation EN 60332-1-2, article 5 EN 60332-1-2, article 6 - outer diameter - flame application time - not damage area from lower edge of the top support - damage area from lower edge of the top support - flame spread H		[mm]		6,6
		[s]	60	60
	min.	[mm]	50	368
	max.	[mm]	540	497
	≤	[mm]	425	129

Test type: **Classification of electric cables according to reaction to fire**

Standard: EN 50575, EN 13501-6,

EN 60332-1-2, EN 60332-1-1

Test of vertical flame spread on a single cable

Cable type: **RG6, Black**

Cable producer: ZHEJIANG TIANJIE INDUSTRIAL CORP

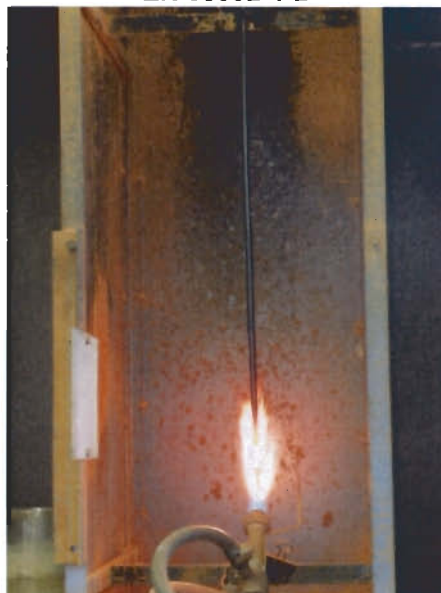
date of test: 4. 1. 2018

Classification according to EN 13501-6: E_{ca}

EN 60332-1-2



Before test



Course of the tests



After test

Measuring and testing equipment

Used	Prescribed	Observed
X	Metter 100 cm	N 400013
X	Slide caliper	259
X	Table stopwatch	551705
X	Test under fire conditions	20 780

If an uncertainty of measurement is given, the expanded a measurement uncertainty is the product of the standard measurement uncertainty and coverage factor $k = 2$, which corresponds to a coverage probability of approximately 95% in a normal distribution.

Laboratory conditions during the test were in accordance with specifications of the standards listed on the first page of this test report.

Compiled by: Vladimír Moždík





Elektrotechnický zkušební ústav, s.p.
Pod lisem 129/2
171 02 Praha 8 – Troja
Notified Testing Laboratory No. 1014
No. of the Test Report: 704151-01/09

No. of pages: 3
No. of annexes/No. of an. pages: 0/0

Issued: 8. 1. 2018



TEST REPORT FOR REACTION TO FIRE

Name of product: Control cable
Type of product: RG6/KOKA6
Ratings: E_{ca}
Part number: -
Manufacturer: ZHEJIANG TIANJIE INDUSTRIAL CORP, Linglong Economic Development Zone, Lin'an Hangzhou China, People's Republic of China
Production site: -
Ordering firm: ZHEJIANG TIANJIE INDUSTRIAL CORP, Linglong Economic Development Zone, Lin'an Hangzhou China, People's Republic of China
Number of tested samples: 1
Samples submitted on: 3. 1. 2018
Location of testing: EZÚ
Tested from 4. 1. 2018 **through** 8. 1. 2018
Other data: -
The product was tested according to: EN 60332-1-2:04+A1:15+A11:16,
EN 60332-1-1:04+A1:15

Compiled by: Vladimír Moždík



Approved by: Jan Tůma
Testing laboratory technical manager

*Test results stated in the test report apply only to the tested subject and unless specified otherwise in the test report, the tests were performed using the method and under the conditions determined in the test regulations, technical norm, instructions for use and information provided by the manufacturer on the tested subject and using accessories required by the manufacturer.
Without written consent, this report must not be reproduced in any other way than as a whole.
When referring to services of EZÚ, s. p., as an accredited laboratory, the customer specified in this report must use the following formulation: "Tested by test laboratory no. 1056, accredited by CAI".*

Test	Prescribed			Observed
Test on complete cable				
RG6/KOKA6, Black				
Test for vertical flame propagation EN 60332-1-2, article 5 EN 60332-1-2, article 6				
- outer diameter		[mm]		6,7
- flame application time		[s]	60	60
- not damage area from lower edge of the top support	min.	[mm]	50	364
- damage area from lower edge of the top support	max.	[mm]	540	491
- flame spread H	≤	[mm]	425	127

Test type: **Classification of electric cables according to reaction to fire**

Standard: EN 50575, EN 13501-6,

EN 60332-1-2, EN 60332-1-1

Test of vertical flame spread on a single cable

Cable type: **RG6/KOKA6, Black**

Cable producer: ZHEJIANG TIANJIE INDUSTRIAL CORP

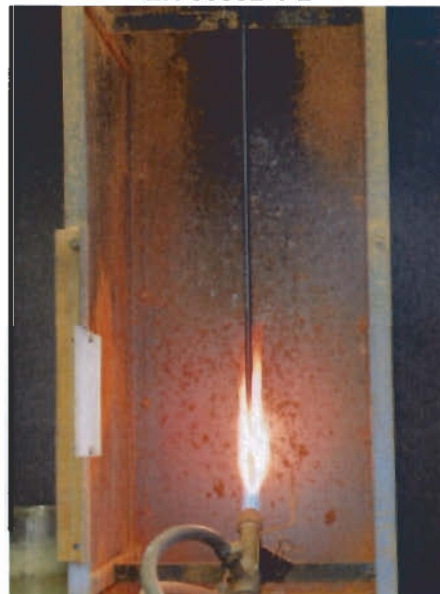
date of test: 4. 1. 2018

Classification according to EN 13501-6: E_{ca}

EN 60332-1-2



Before test



Course of the tests



After test


Measuring and testing equipment

Used	Prescribed	Observed
X	Metter 100 cm	N 400013
X	Slide caliper	259
X	Table stopwatch	551705
X	Test under fire conditions	20 780

If an uncertainty of measurement is given, the expanded a measurement uncertainty is the product of the standard measurement uncertainty and coverage factor $k = 2$, which corresponds to a coverage probability of approximately 95% in a normal distribution.

Laboratory conditions during the test were in accordance with specifications of the standards listed on the first page of this test report.

Compiled by: Vladimír Moždík





Elektrotechnický zkušební ústav, s.p.
Pod lisem 129/2
171 02 Praha 8 – Troja
Notified Testing Laboratory No. 1014
No. of the Test Report: 704151-01/10

No. of pages: 3
No. of annexes/No. of an. pages: 0/0

Issued: 8. 1. 2018



TEST REPORT FOR REACTION TO FIRE

Name of product: Control cable
Type of product: PROFIBUS L2-BUS
Ratings: E_{ca}
Part number: -
Manufacturer: ZHEJIANG TIANJIE INDUSTRIAL CORP, Linglong Economic Development Zone, Lin'an Hangzhou China, People's Republic of China
Production site: -
Ordering firm: ZHEJIANG TIANJIE INDUSTRIAL CORP, Linglong Economic Development Zone, Lin'an Hangzhou China, People's Republic of China
Number of tested samples: 1
Samples submitted on: 3. 1. 2018
Location of testing: EZÚ
Tested from 4. 1. 2018 **through** 8. 1. 2018
Other data: -
The product was tested according to: EN 60332-1-2:04+A1:15+A11:16,
EN 60332-1-1:04+A1:15

Compiled by: Vladimír Moždík



Approved by: Jan Tůma
Testing laboratory technical manager

*Test results stated in the test report apply only to the tested subject and unless specified otherwise in the test report, the tests were performed using the method and under the conditions determined in the test regulations, technical norm, instructions for use and information provided by the manufacturer on the tested subject and using accessories required by the manufacturer.
Without written consent, this report must not be reproduced in any other way than as a whole.
When referring to services of EZÚ, s. p., as an accredited laboratory, the customer specified in this report must use the following formulation: "Tested by test laboratory no. 1056, accredited by CAI".*

Test	Prescribed			Observed
Test on complete cable				
PROFIBUS L2-BUS 1x2x0,64, Black				
Test for vertical flame propagation EN 60332-1-2, article 5 EN 60332-1-2, article 6 - outer diameter - flame application time - not damage area from lower edge of the top support - damage area from lower edge of the top support - flame spread H		[mm]		7,7
		[s]	60	60
	min.	[mm]	50	179
	max.	[mm]	540	476
	≤	[mm]	425	297

Test type: **Classification of electric cables according to reaction to fire**

Standard: EN 50575, EN 13501-6,

EN 60332-1-2, EN 60332-1-1

Test of vertical flame spread on a single cable

Cable type: **PROFIBUS L2-BUS 1x2x0,64, Black**

Cable producer: ZHEJIANG TIANJIE INDUSTRIAL CORP

date of test: 4. 1. 2018

Classification according to EN 13501-6:

E_{ca}

EN 60332-1-2



Before test



Course of the tests



After test

Measuring and testing equipment

Used	Prescribed	Observed
X	Metter 100 cm	N 400013
X	Slide caliper	259
X	Table stopwatch	551705
X	Test under fire conditions	20 780

If an uncertainty of measurement is given, the expanded a measurement uncertainty is the product of the standard measurement uncertainty and coverage factor $k = 2$, which corresponds to a coverage probability of approximately 95% in a normal distribution.

Laboratory conditions during the test were in accordance with specifications of the standards listed on the first page of this test report.

Compiled by: **Vladimír Moždík**

