



CLASSIFICATION REPORT

of reaction to fire for electric cables

1 Introduction

This classification report defines the classification assigned to the cable type *GJFJH 2.0mm simplex indoor optical cable* in accordance with the procedures given in EN 13501-6.

CLASSIFICATION OF REACTION TO FIRE FOR ELECTRIC CABLES IN ACCORDANCE WITH EN 13501-6

| | |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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| Notified Body No: | 0366* |
| Product name: | GJFJH 2.0mm simplex indoor optical cable |
| Classification report No: | 5022634-2-1 |
| Issue number: | 1 |
| Date of issue: | 2017-05-19 |

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* To be used for CE marking only



CLASSIFICATION REPORT

of reaction to fire for electric cables

2 Details of classified product

2.1 General

The product *GJFJH 2.0mm simplex indoor optical cable* is defined as an *electric cable*^{*1}.

* To be used for CE marking

2.2 Product description

The product *GJFJH 2.0mm simplex indoor optical cable* is described below or is described in the reports provided in support of classification listed in 3.1.

Product description:

Designation of cable family acc. to standard: N/A

Underlying standard / specification: Datasheet: GJFJH 2.0mm
simplex indoor optical cable,
Revision date: 2017-06-01

Relevant constructional information

Used materials: Units: LSZH FZD 1669
Sheath: LSZH FZD 1690G
Strain-relief: Aramid yarn

Concentric shield: Includes Does not include

Armouring: Includes Does not include

Constructional elements relevant for defining the cable family: (e.g. metallic tapes, non-combustible tapes...)

N/A

¹ Definition according to EN 50575.



CLASSIFICATION REPORT

of reaction to fire for electric cables

3 Reports and results in support of this classification

3.1 Reports

| Name of Laboratory | Name of sponsor | Report ref. no. | Test method and date |
|--------------------|-----------------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VDE Institute | SHENZHEN SDGI OPTICAL NETWORK TECHNOLOGIES CO.,LTD. | 237542- CC4-2 | 2017-06-06 <input checked="" type="checkbox"/> EN 60332-1-2 <input checked="" type="checkbox"/> EN 50399 <input type="checkbox"/> EN 61034-2 <input type="checkbox"/> EN 60754-2 |



CLASSIFICATION REPORT

of reaction to fire for electric cables

3.2 Results

| Test method and test number | Parameter | No. tests ² | Results ³ | |
|---------------------------------------------------------------------------------------------|-------------------------------|------------------------|-------------------------------|----------------------------|
| | | | Continuous parameter – mean m | Compliance with parameters |
| Test for vertical flame propagation for a single insulated wire or cable (EN 60332-1-2) | H | 1 | N/A | Compliant |
| Heat release and smoke production measurement on cables during flame spread test (EN 50399) | Flame spread | 1 | 2,3 m | N/A |
| | HRR _{av} | | 30 kW | N/A |
| | THR ₁₂₀₀ | | 21 MJ | N/A |
| | FIGRA | | 73 W/s | N/A |
| | TSP ₁₂₀₀ | | 30 m ² | N/A |
| | SPR _{av} | | 0,06 m ² /s | N/A |
| | Flaming drop-lets / particles | | N/A | Compliant d0 |

² According to EN 13501-6: Number of individual measurements necessary to obtain a result value; does not refer to the number of tests through the application of EXAP rules according to TS 50576.

³ When applying EXAP rules according to TS 50576, only the results that contribute to the classification are listed.



CLASSIFICATION REPORT

of reaction to fire for electric cables

4 Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with EN 13501-6.

4.2 Classification

The product *GJFJH 2.0mm simplex indoor optical cable* in relation to its reaction to fire behaviour is classified:

D_{ca}

The additional classification in relation to smoke production is:

s1

The additional classification in relation to flaming droplets / particles is:

d0

The additional classification in relation to acidity is:

N/A

The format of the reaction to fire classification for electric cables is:

| Fire behaviour | | Smoke production | | Flaming droplets |
|-----------------|---|------------------|---|------------------|
| D _{ca} | - | s 1 | - | d 0 |

i.e. D_{ca}-s1-d0



CLASSIFICATION REPORT

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4.3 Field of application

This classification is valid for the following product parameters as determined in the expanded application process according on CLC/TS 50576:

No application of CLC/TS 50576, the report is only valid for the cable type described in section 2.2.

The classification is valid for all end use applications.

5 Limitations

This classification document does not represent type approval or certification of the product.

The classification assigned to the product in this report is appropriate to a declaration of conformity by the manufacturer within the context of system 3 attestation of conformity and CE marking under the Construction Products Directive.

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.

SIGNED

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APPROVED

Dr. Christian Cornelissen
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