

ICS 13.220.10

CCS C85



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB 26783-2011

Fire rescue lighting line

消防救生照明线

Issued on: July 20, 2011

Implemented on: November 1, 2011

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China;
Standardization Administration of China**

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Foreword

8.1.1 mandatory, the rest are recommended. This standard is prepared in accordance with GB/T 1.1-2009 given rules. The standard proposed by the People's Republic of China Ministry of Public Security. This standard by the National Standardization Technical Committee appliances Fire Fire accessories Technical Committee (SAC/TC113/SC5) centralized. This standard was drafted. Shanghai Fire Research Institute of Ministry of Public Security. Drafters of this standard. Shen Jian Min, Zhu Rong, Zhang Yan, Zhang Yan, Li Rui Kun, Ge Liang. Fire rescue illumination line

1 Scope

GB 26783-2011 is the Chinese national standard on fire rescue lighting line, in the field of environment and health protection, safety. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 20 July 2011 by

the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 November 2011. Classification: ICS 13.220.10, CCS C85. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the terms and definitions fire rescue illumination line, models, technical requirements, test methods, inspection rules, marking, packaging, transport and storage. This standard is applicable to the power supply system of fire rescue illumination line.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 191 Packaging - Pictorial signs

GB/T 2423.1 Environmental testing for electric and electronic products Part 2. Test methods Test A. Cold

GB/T 2423.2 Environmental testing for electric and electronic products Part 2. Test methods Test B. Dry heat

GB/T 2423.4 Environmental testing for electric and electronic products Part 2. Test methods - Test Db Damp (12h 12h cycle)

GB 3836.1 explosive atmospheres - Part 1. General requirements for equipment

GB 7000.1 Luminaires - Part 1. General requirements and tests

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Fire smoke and other visibility in low ambient place for directing light hair escape route from the power supply system, light body hair, winding wheel And other components.

4 Model

Fire life-saving lighting line (hereinafter referred to as the illumination line) model preparation should meet the following requirements. JZ Product Category Code (JZ represents illumination line) Life-saving lighting line parameter length in meters (m) Power supply. J indicates AC, Z represents a DC power supply - - Explosion Class. B expressed an

explosion-proof, explosion-proof performance without omitting Luminescent type. C represents steady type, S-type indicates flashing Example. JZ50J-BC represents the length of AC power line with explosion-proof lighting steady performance of 50m.

5.1 Appearance

5.1.1 Lighting cable line of the body surface should be smooth and free of scratches, the insulating layer intact.

5.1.2 Lighting cable winding wheel should be flexible rotation, no jamming phenomenon, the surface no obvious manufacturing defect or mechanical scratch.

5.1.3 Lighting power distribution box line operating switch should be flexible and reliable, clear instructions panel, connectors good contact, no loosening.

5.2 emission luminance In the continuous working time, brightness illumination line shall not be less than 10cd/m².

5.3 flicker frequency Flashing lighting line flicker frequency should be 1Hz ~ 2Hz.

5.4 Quality Lighting wire line weight should not exceed 13kg.

5.5 guiding function Lighting should have a guiding function line, body line intervals (2 ± 0.1) m should have a visible direction signs.

5.6 Insulation resistance Lighting wire line body surface and the insulation resistance between conductors shall be not less than 50MΩ.

5.7 Compressive strength Lighting powered by the AC power line, between the external terminals and the charging distribution box housing should be able to withstand the compressive strength test specified in 6.7, the test It should be no breakdown, flashover.

5.8 Tensile Properties Lighting wire line body should be able to withstand the tension of not less than 300N. After the test according to the provisions of 6.8, line body and a light source should be no damage, lighting should line It can work.

5.9 compression performance After lighting line compression test according to the provisions of 6.9, line body and a light source should be no damage, light line should be able to work properly.

5.10 Waterproof After lighting line according to the provisions of

6.10 waterproof test, it should be able to work properly.

5.11 maximum surface temperature In a continuous working hours, lighting wire line surface temperature should not exceed 60 °C.

5.12 resistant to climate adaptation Weather-resistant body according to ambient lighting line lines specified in Table 1 of the test, after the test illumination line line of the body

should be no adhesion, embrittlement, illumination line should It can work. Table 1
 weathering test environment Name of test temperature/°C humidity /% duration/h
 environmental conditions, recovery time/h working condition High-temperature test 60 ± 2 -
 2 - Low temperature test -25 ± 2 - 2 - Energized state Damp heat test Raised to 25 ± 2 $40 \pm$
 2 $82 \sim 85$ $3 - 40 \pm 2$ $85 \sim 88$ $3 -$ Down to 40 ± 2 25 ± 2 $82 \sim 85$ $3 -$ Energized state High
 Temperature Storage Test 70 ± 2 - 16

6 Test methods

6.1 Visual inspection Visual illumination line appearance.

6.2 luminous intensity measurement With an accuracy not less than $\pm 5\%$ of the luminance meter, luminance values were measured three different parts of the light-emitting illumination line body, calculate the average As a result of the measurement.

6.3 Blinking Frequency Measurement The illumination line in operation, with an accuracy of not less than 0.1s stopwatch, record 20s in the illumination line scintillation number flashes computing frequency.

6.4 Quality Measurement With an accuracy of not less than 0.5kg, said electronic measuring illumination line line body mass.

6.5 Check the guide The illumination line in working condition, visual guiding function, with an accuracy of not less than grade II tape measure distance between adjacent direction signs.

6.6 Insulation resistance test With an accuracy not less than $\pm 5\%$ of the insulation resistance meter, insulation resistance measurement illumination line conductor and surface illumination line between lines in vitro.

6.7 compressive strength test With an accuracy not less than $\pm 10\%$ of the compressive strength tester, applying an alternating illumination line between external terminals and distribution boxes housing live $1500V \pm 100V$ voltage, duration 1min.

6.8 tensile test Lighting line body line vertically, one end fixed, the other end of the tension applied to 300N, duration 5min.

6.9 compression testing There are provided two length 10cm, width is 5cm, a thickness of 5mm Bakelite insulating plate, and the two illumination line on the line of the body of the insulating plate Intermediate portion. 700N pressure in the direction perpendicular to the insulating plate, the duration 5min.

6.10 waterproof test With a water spray nozzle lighting line line body water spray, water spray nozzle flow (10 ± 1) L/min, duration of 2min.

6.11 maximum surface temperature test According to the method specified in GB 7000.1.