

消防處  
牌照及審批總區

香港九龍  
尖沙咀東部康莊道1號5樓  
消防總部大廈



FIRE SERVICES DEPARTMENT  
LICENSING AND CERTIFICATION COMMAND

Fire Services Headquarters Building,  
5/F, No. 1 Hong Chong Road,  
Tsim Sha Tsui East, Kowloon,  
Hong Kong

本處檔號 Our Ref.: ( 41 ) in FP 314/07 IV

來函檔號 Your Ref.:

圖文傳真 Fax: 852 - 2723 2197

電話 Tel. No.: 852 - 2733 7612

13 May 2003

To : Authorized Persons  
Registered F.S.I. Contractors  
Registered Ventilation Contractors  
Registered Lift & Escalator Contractors  
Fire Insurance Association of H.K.  
The Association of Registered F.S.I.  
Contractors of Hong Kong  
Structural Division, H.K.I.E.  
Power Companies

The H.K. & China Gas Co.  
The Lift & Escalator Contractors  
Association  
Pacific Century Cyber Works Limited  
Hong Kong Construction Association  
Director of Architectural Services  
Director of Buildings  
Director of Housing  
Petroleum Companies

Dear Sirs,

**FSD Circular Letter No. 1/2003**  
**Minimum Fire Resisting Cable Requirements for Fire Service Installations**

The requirements of fire resisting cables for sprinkler, fire alarm and emergency lighting installations are clearly specified in respective sections of LPC Rules for Automatic Sprinkler Installations (BS 5306: Part 2: 1990), LPC Rules for Automatic Fire Detection and Alarm Installations (BS 5839: Part 1: 1988) and Codes of Practice for Minimum Fire Service Installations and Equipment (section 5.9 - BS 5266-1: 1999).

With a view to standardising the provisions of fire resisting cables for other types of fire service installations as specified in Part V of the Codes of Practice for Minimum Fire Service Installations and Equipment, the Working Group on Fire Service Installations Inspection Procedures was tasked to draw up a list of requirements for such purpose. The Working Group has now completed its study and recommended a list of minimum requirements as tabulated in the Appendix for respective fire service installations.

The new minimum requirements of fire resisting cables will take effect from 1 August 2003 for all initial submissions of building plans received by this Department.

Yours faithfully,

(LAU Kwai-shan)  
for Director of Fire Services

### Minimum Fire Resisting Cable Requirements for Fire Service Installations

Item	Type of Fire Service Installations	Minimum Cable Requirements
1.	Audio/visual advisory systems	<p><u>Power supply cables</u> to conform with:</p> <p>(a) BS 6387 Cat. AWX or SWX; or</p> <p>(b) BS 6207 or BS EN 60702; or</p> <p>(c) Other international standards acceptable to the Director of Fire Services.</p>
2.	Automatic fixed installations (other than sprinkler systems) using water	
3.	Deluge systems	
4.	Drencher systems	
5.	Fire alarm systems	
6.	Fire hydrant/hose reel systems	
7.	Fixed foam systems	
8.	Ring main systems with fixed pumps	
9.	Water spray systems	
10.	Emergency generators	<p><u>Power supply cables</u> (from emergency generator to main switchboard) to conform with:</p> <p>(a) BS 6387 Cat. CWZ; or</p> <p>(b) BS 6207 or BS EN 60702; or</p> <p>(c) Other international standards acceptable to the Director of Fire Services.</p>
11.	Fireman's lifts	<p><u>Power supply cables</u> (from the main switchboard to the main switch for lift power circuit and car lighting etc., in the lift machine room) to conform with:</p> <p>(a) BS 6387 Cat. CWZ; or</p> <p>(b) BS 6207 or BS EN 60702; or</p> <p>(c) Other international standards acceptable to the Director of Fire Services.</p>
12.	Pressurization of staircases	<p><u>Power supply cables</u> to conform with:</p> <p>(a) BS 6387 Cat. CWZ; or</p> <p>(b) BS 6207 or BS EN 60702; or</p> <p>(c) Other international standards acceptable to the Director of Fire Services.</p>

Item	Type of Fire Service Installations	Minimum Cable Requirements
13.	Smoke extraction systems	<p><u>Power supply cables</u> to conform with:</p> <p>(a) BS 6387 Cat. CWZ; or</p> <p>(b) BS 6207 or BS EN 60702; or</p> <p>(c) Other international standards acceptable to the Director of Fire Services.</p> <hr/> <p><u>Control cables</u> to conform with:</p> <p>(a) BS 6387 Cat. AWX or SWX; or</p> <p>(b) BS 6207 or BS EN 60702; or</p> <p>(c) Other international standards acceptable to the Director of Fire Services.</p>

Remarks:

Cables under any of the following conditions may be exempted from the above minimum requirements: -

- (a) Cables installed and terminated in switch/plant room;
- (b) Cables inside concealed metallic or PVC conduits which are embedded by plaster/concrete to a depth of at least 12 mm;
- (c) Cables inside underground cable ducts or reinforced concrete cable trenches;
- (d) Cables embedded in the soil to a depth of at least 300 mm;
- (e) Cables within fire resisting cable ducts and are not mixed with other services (e.g. switchgear, etc); the fire resistance of cable ducts to be not less than that of the building compartment.

~ End ~