

# Total Fire Solutions

Includes BS 8519



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## Introduction: Total Fire Solutions

### Power and control cable systems for life safety and fire-fighting applications

Maintaining circuit integrity and limiting hazardous smoke and fume emissions during a fire is vital for life safety and critical to this is cable performance. Making the right cable choice and installing it in accordance with best practice has never been more important. This at-a-glance guide will help you through the selection process, offering a cable for every application and guidance on best installation practice.

### How to use this guide

#### 1 UNDERSTANDING CODES OF PRACTICE

Codes of practice represent current best installation guidance. Pages 4 to 11 list prominent Codes of Practice complete with applications, conformance information and requirements for installers in each application. This information is further summarised in tables on pages 22-23.

#### 2 SPECIFYING THE RIGHT CABLE EVERY TIME

Make the right cable choice every time with this 'Total Fire Solutions' visual guide to AEI's range of Fire Performance Cables. Individual products are summarised on pages 12-17, so you can be sure you are choosing the best option whatever the location and application, every time.

## Codes of Practice

British Standard Codes of Practice are published to encourage best practice in their area of relevance. They will refer to relevant cable standards and may call up additional performance requirements not included in the generic cable manufacturing standard. Compliance with the code of practice will assure performance of the system.

Trade bodies may also produce codes for their members to abide by, although these may not involve wider consultation with consumer interest groups or other industry stakeholders.

Building Regulations reference a series of approved documents to give more detailed guidance for particular situations. Approved document B of the Building Regulations deals with Fire Safety in Buildings. Volume two section 5.38 covers protected power circuits and requires that a protected circuit should consist of cable meeting at least the requirements for category PH30 of BS EN 50200. Where circuits are required to operate for longer than 30 minutes reference should be made to the following codes of practice;

- 
- BS 9999** Power Supplies
  - BS 7346** Smoke, Heat and Exhaust Ventilation Systems
  - BS 8519** Power and Control Systems
  - BS 5839** Fire Alarms Systems
  - BS 5266** Emergency Lighting
- 



## BS Codes of Practice

# BS 9999

BS 9999 gives guidance and recommends measures to control or mitigate the effect of fire in the design, management and use of buildings. It applies to the design of new buildings and to the alteration, extension and change to use of existing buildings.

It recommends that protected primary and secondary power supplies should be either Mineral Insulated cable or cables meeting the objectives of BS 7346-6 or BS 8491.



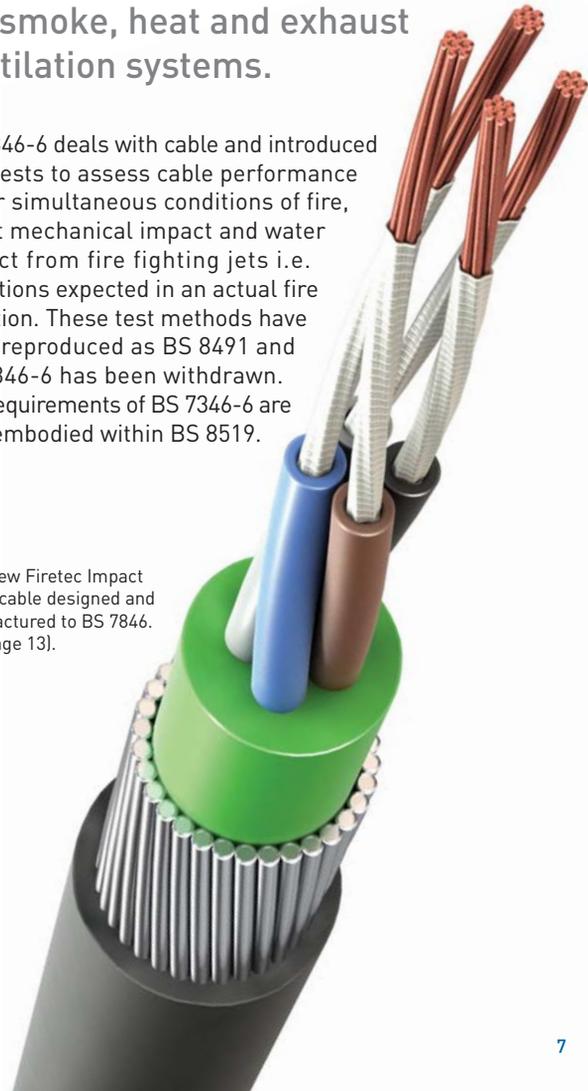
## BS Codes of Practice

# BS 7346

BS 7346 specifies the requirements for smoke, heat and exhaust ventilation systems.

BS 7346-6 deals with cable and introduced new tests to assess cable performance under simultaneous conditions of fire, direct mechanical impact and water impact from fire fighting jets i.e. conditions expected in an actual fire situation. These test methods have been reproduced as BS 8491 and BS 7346-6 has been withdrawn. The requirements of BS 7346-6 are now embodied within BS 8519.

AEI's new Firetec Impact Power cable designed and manufactured to BS 7846. (See page 13).



## BS Codes of Practice

# BS 8519

**BS 8519 provides recommendations for the selection and installation of fire resistant power and control system cables for life safety and fire fighting applications.**

BS 8519 incorporates and expands upon the requirements of BS 7346-6, the code of practice for Smoke, Heat and Exhaust Ventilation Systems (now withdrawn), to provide a more comprehensive coverage of fire engineering systems and highlights many of the factors which need to be considered by engineers designing systems and selecting cables to meet life safety and fire fighting objectives.

**Some of the topics contained in BS 8519 include;**

- Fire survival times
- Power supplies
- Dual circuits/diverse routes
- Fire protective enclosures
- Automatic change over devices
- Motor control panels
- Fire protective enclosures for cables
- Effects of fire temperature on cable size
- Use of circuit protective conductors (CPCs)
- Cable installation practice
- Cable support systems
- Inverters
- Multizoned smoke ventilation systems
- Junction boxes
- Areas of special fire risk

It should be noted that both Approved Document B of the Building Regulations and BS 9999 the codes of Practice for fire safety in the design, management and use of buildings refer to BS 7346-6 which BS 8519 replaces.

BS 8519 contains six categories of cables, three for power cables and three for control cables each subdivided into escape/survival times of 30, 60 or 120 minutes and each having a specific requirement in respect of fire performance.

Categories of cable				
			Applicable fire test	Applicable product*
Life Safety (LS)	LS 30 mins	Category 1 Power	BS 8491 30 mins	MI Cable Firetec Impact Power
		Category 1 Control	BS EN 50200 PH30 30 mins annex E	MI Cable Firetec Power Firetec Standard
	LS 60 mins	Category 2 Power	BS 8491 60 mins	MI Cable Firetec Impact Power
		Category 2 Control	BS EN 50200 PH60 & 120 mins to BS 8434-2	MI Cable Firetec Power Firetec Enhanced
Fire Fighting (FF)	FF 120 mins	Category 3 Power	BS 8491 120 mins	MI Cable Firetec Impact Power
		Category 3 Control	BS EN 50200 PH120 & BS 8519 annex B	MI Cable Firetec Power Firetec Enhanced

\*Choice depends upon level of mechanical protection required.

## BS Codes of Practice

# BS 5839

BS 5839 provides recommendations for the planning, design, installation, commissioning and maintenance of fire detection and alarm systems in and around buildings.

Section 26 recommends cables conform to one of the following:

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<b>BS EN 60702-1</b>	AEI Mineral Insulated Cable
<b>BS 7629</b>	Firetec Standard and Firetec Enhanced
<b>BS 7846</b>	Firetec Power and Firetec Impact Power

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It defines two classes of cables, clause 26.2d standard grade and clause 26.2e enhanced grade.

Clause 26.2d standard grade cable calls up fire tests BS EN 50200 PH30 incorporating fire, impact and water testing. It is intended for use as a 30 minute fire rated cable for use in life safety applications where it would be expected a building could be evacuated in under 30 mins (single stage evacuation) or in applications where a risk assessment would suggest a cable would not need to operate for longer than 30 minutes in the event of a fire.

Clause 26.2e enhanced grade cable calls up fire tests BS EN 50200 PH120 and BS 8434-2 incorporating fire, impact and water testing. It is intended for use as a 120 minute fire rated cable for use in life safety applications in complex buildings where there may be multi stage evacuation or in applications where a risk assessment would suggest the cable would not need to operate for longer than 120 minutes in the event of a fire.

## BS Codes of Practice

# BS 5266

BS 5266 is the code of practice for the emergency escape lighting of premises.

It does not apply to dwellings, however its provisions apply to common access routes within blocks of flats or maisonettes. Section 8.2 recommends that cables used for connection of an emergency escape lighting luminaire should adequately resist effects of fire and mechanical damage. It specifies the following categories of cables and cable systems to be used.

- a** Emergency lighting cables with a duration of survival of 60 minutes when tested to BS EN 50200 and duration of survival of 30 minutes when tested in accordance with BS EN 50200 Annex E. Cables should conform to BS EN 60702-1, BS7629 or BS7846. Suitable cables are MI Cable, Firetec Standard and Firetec Power.
- b** Enhanced Emergency lighting cables with a duration of survival of 120 minutes when tested in accordance with BS EN 50200 and a duration of survival of 120 minutes when tested in accordance with BS8434-2. Suitable cables are MI Cable, Firetec Enhanced and Firetec Power.
- c** Emergency lighting cable systems comprising fire resistant single core or multi core cables enclosed in steel conduit such that the cable has a duration of survival of 60 minutes. The cable system should meet IEC60332-3 for a flame application time of 60 minutes. Suitable cables are Firetec Singlecore, Firetec Standard.
- d** Enhanced Emergency lighting cable systems comprising fire resistant single core or multi core cables enclosed in steel conduit such that the cable has a duration of survival of 120 minutes. The cable system should meet IEC60332-3 for a flame application time of 120 minutes. Suitable cables are Firetec Singlecore, Firetec Standard, Firetec Enhanced.

The enhanced cables and cable systems are recommended for use in complex buildings where there may be multistage evacuation or in applications where a risk assessment would suggest the cable would need to operate for longer than 120 minutes in the event of a fire.

# MINERAL INSULATED

Manufactured and designed to BS EN 60702-1

# FIRETEC IMPACT POWER

Manufactured and designed to BS 7846



<b>Voltage Rating</b>	500 volts Light Duty. 750 volts Heavy Duty	
<b>Description</b>	Mineral Insulated cable delivers ultimate fire performance. It guarantees data transmission and security of power and control circuits by exceeding the requirements of BS 8519-1 providing circuit integrity to 950°C. It also exceeds enhanced grade requirements defined by BS 5839-1 26.2e - the universal cable that satisfies all Cat. 1, 2 & 3 Power, and all Cat 1, 2 & 3 Control requirements defined by BS 8519.	
<b>Construction</b>	Solid copper conductor. Compressed magnesium oxide powder insulation. Solid copper sheath and optional thermoplastic LSZH sheath.	
<b>Operating Temperature</b>	-10°C to +250°C	
<b>Minimum Bending Radius</b>	6 x overall diameter	
<b>Core Identification</b>	Coloured sleeving available	
<b>Lengths</b>	LD - 100/500 mtrs. Special lengths available on request HD - Cables available in nominal lengths	
<b>Sheath Colour</b>	Red, White or Orange. Other colours available	
<b>Manufacturing Standard</b>	BS EN 60702-1 and BS EN 60702-2 Accessories (BS EN 60079)	
<b>Code of Practice</b>	BS 5839-1 Clause 26.2e Enhanced BS 5266 Enhanced Emergency Lighting cable	BS 8519 Category 1 & 2 Control For Category 3 and Power applications see Special Notes.
<b>Fire Tests</b>	BS 8434-2 BS EN 50200 PH30, PH60, PH120 BS 6387 C W & Z BS 8491	
<b>Emissions and Flame Propagation</b>	BS EN 50267 (IEC 60754) Acid Gas Emission BS EN 50268 (IEC 61034) Smoke Emission BS EN 50265, 50266 (IEC 60332) Flame Propagation (In its bare copper form there are no emissions)	
<b>Special Notes</b>	1. Testing at AET confirms compliance with BS 8519 Cat.3 Control and Cat. 1, 2 & 3 Power (Clause II, note 2. for cables <20mm OD). 2. Methods of cable support should withstand a similar temperature and duration to that of the cable.	

<b>Voltage Rating</b>	600/1000 volts	
<b>Description</b>	Firetec Impact Power cables are similar in construction to armoured cables, but provide additional protection to smaller cable sizes to ensure the best possible mechanical protection from a polymeric cable. Designed to meet the application of fire, direct impact and water jet as specified in BS 8491, making them suitable for use as 120 minute rated category 3 power cables under BS 8519.	
<b>Construction</b>	Stranded plain annealed copper conductors. Mica/glass fire barrier tape. Cross linked polyethylene insulation (XLPE). LSZH bedding, steel wire armouring and LSZH outer sheath.	
<b>Operating Temperature</b>	-10°C to +90°C	
<b>Minimum Bending Radius</b>	6 x overall diameter (8 times for cables 25mm <sup>2</sup> and above)	
<b>Core Identification</b>	2c - Bn & Be. 3c - Bn, Blk & Gy. 4c - Bn, Blk, Gy & Be.*	
<b>Lengths</b>	Cut lengths on request	
<b>Sheath Colour</b>	Black	
<b>Manufacturing Standard</b>	BS 7846	
<b>Code of Practice</b>	BS 5839-1 Clause 26.2e Enhanced BS 5266 Enhanced Emergency Lighting cable	BS 7346, BS 8519 Category 1, 2, 3 Control and Category 1, 2, 3 Power BS 9999
<b>Fire Tests</b>	BS 8434-2 BS EN 50200 PH30, PH60, PH120 BS 6387 C W & Z, BS 8491	
<b>Emissions and Flame Propagation</b>	BS EN 50267 (IEC 60754) Acid Gas Emission BS EN 50268 (IEC 61034) Smoke Emission BS EN 50265, 50266 (IEC 60332) Flame Propagation	
<b>Special Notes</b>	1. *Old core colours available. 2c Rd, Blk. 3c Rd, Yw, Be. 4c Rd, Yw, Be, Blk. 2. Methods of cable support should withstand a similar temperature and duration to that of the cable.	

# FIRETEC POWER

Manufactured and designed to BS 7846

# FIRETEC ENHANCED

Manufactured and designed to BS 7629



<b>Voltage Rating</b>	600/1000 volts
<b>Description</b>	Firetec Power is a fire resistant armoured cable suitable for use in fixed installations for power circuits, fire alarm systems and emergency lighting systems. It is robust, flexible and suitable for use inside and outside buildings, meeting the enhanced grade of BS 5839 26.2e.
<b>Construction</b>	Stranded plain annealed copper conductors. Mica/glass fire barrier tape. Cross linked polyethylene insulation (XLPE). LSZH bedding, steel wire armouring and LSZH outer sheath.
<b>Operating Temperature</b>	-10°C to +90°C
<b>Minimum Bending Radius</b>	6 x overall diameter (8 times for cables 25mm <sup>2</sup> and above)
<b>Core Identification</b>	2c - Bn & Be. 3c - Bn, Blk & Gy. 4c - Bn, Blk, Gy & Be.* Multicore - white cores with black printed numbers
<b>Lengths</b>	Cut lengths on request
<b>Sheath Colour</b>	Black
<b>Manufacturing Standard</b>	BS 7846
<b>Code of Practice</b>	BS 5266. Enhanced Emergency Lighting cable.
<b>Fire Tests</b>	BS 8434-2   BS 6387 C W & Z BS EN 50200 PH30, PH60, PH120   BS 7846 F2
<b>Emissions and Flame Propagation</b>	BS EN 50267 (IEC 60754) Acid Gas Emission BS EN 50268 (IEC 61034) Smoke Emission BS EN 50265, 50266 (IEC 60332) Flame Propagation
<b>Special Notes</b>	<ol style="list-style-type: none"> <li>*Old core colours available. 2c Rd, Blk. 3c Rd, Yw, Be. 4c Rd, Yw, Be, Blk.</li> <li>This cable can be supplied without steel wire armour for situations where sufficient mechanical protection already exists and where a smaller, lighter, more flexible cable would be preferred. Simply request details of our Firetec unarmoured range of cables. Fire resistant to BS 6387 C W &amp; Z, LSZH material used throughout, LPCB approved.</li> <li>Methods of cable support should withstand a similar temperature and duration to that of the cable.</li> <li>Testing at AEI confirms compliance with BS 8519 Category 1, 2 &amp; 3 Control and meets the requirements for an enhanced grade of cable to BS 5839 26.2e.</li> </ol>

<b>Voltage Rating</b>	300/500 volts
<b>Description</b>	Firetec Enhanced cable is suitable for fire alarm systems, emergency lighting circuits and Category 1, 2 & 3 Control circuits as defined in BS 8519. The mica glass tape is applied directly over the conductor to ensure the best possible enhanced fire performance. It meets the enhanced grade of BS 5839 26.2e.
<b>Construction</b>	Solid or stranded plain annealed copper conductors. Tinned annealed copper full size CPC. Mica/glass fire barrier tape. Aluminium/polyester laminated tape screen. LSZH insulation and outer sheath.
<b>Operating Temperature</b>	-10°C to +90°C
<b>Minimum Bending Radius</b>	6 x overall diameter
<b>Core Identification</b>	2c - Bn & Be. 3c - Bn, Blk & Gy 4c - Bn, Blk, Gy & Be
<b>Lengths</b>	100/500 mtrs. Special lengths available on request
<b>Sheath Colour</b>	Red or White. Other colours available
<b>Manufacturing Standard</b>	BS 7629-1
<b>Code of Practice</b>	BS 5839-1 Clause 26.2e Enhanced BS 5266 Enhanced Emergency Lighting cable   BS 8519 Category 1 & 2 Control For Category 3 Control see Special Notes.
<b>Fire Tests</b>	BS 8434-2 BS EN 50200 PH30, PH60, PH120 BS 6387 C W & Z
<b>Emissions and Flame Propagation</b>	BS EN 50267 (IEC 60754) Acid Gas Emission BS EN 50268 (IEC 61034) Smoke Emission BS EN 50265, 50266 (IEC 60332) Flame Propagation
<b>Special Notes</b>	<ol style="list-style-type: none"> <li>Testing at AEI confirms compliance with BS 8519 Category 3 Control</li> <li>Methods of cable support should withstand a similar temperature and duration to that of the cable.</li> </ol>

# FIRETEC STANDARD

Manufactured and designed to BS 7629

# FIRETEC SINGLECORE

A fire resistant LSZH conduit wire



<b>Voltage Rating</b>	300/500 volts	<b>Voltage Rating</b>	600/1000 volts
<b>Description</b>	Firetec Standard cable is suitable for fire alarm systems and emergency lighting circuits. It meets the standard grade of BS 5839 26.2d and Category 1 Control as defined by BS 8519.	<b>Description</b>	Firetec Singlecore is designed to be installed in metal conduit. For use in fire alarm and emergency lighting circuits for new installations or upgrading existing conduit systems to fire performance standards. Elastomeric insulation gives high mechanical strength, excellent flexibility and resistance to abrasion.
<b>Construction</b>	Solid or stranded plain annealed copper conductors. Tinned annealed copper full size CPC. Aluminium/polyester laminated tape screen. LSZH insulation and outer sheath.	<b>Construction</b>	Stranded plain annealed copper conductors. Mica/glass fire barrier tape. Elastomeric LSZH outer sheath.
<b>Operating Temperature</b>	-10°C to +90°C	<b>Operating Temperature</b>	-10°C to +90°C
<b>Minimum Bending Radius</b>	6 x overall diameter	<b>Minimum Bending Radius</b>	6 x overall diameter
<b>Core Identification</b>	2c - Bn & Be. 3c - Bn, Blk & Gy 4c - Bn, Blk, Gy & Be	<b>Core Identification</b>	Bn, Blk, Gy, Be, Rd, Oe, Yw & Gn/Yw. Other colours available on request
<b>Lengths</b>	100/500 mtrs. Special lengths available on request	<b>Lengths</b>	100/500 mtrs. Special lengths available on request
<b>Sheath Colour</b>	Red or White. Other colours available	<b>Fire Tests</b>	BS 6387 C, W, Z and IEC 60331-21 when tested in a steel conduit at a temperature of 950°C and an increased voltage of 600/1000volts.
<b>Manufacturing Standard</b>	BS 7629-1	<b>Sheath Colour</b>	N/A
<b>Code of Practice</b>	BS 5839-1 Clause 26.2d Standard BS 5266 Emergency Lighting cable BS 8519 Category 1 Control	<b>Manufacturing Standard</b>	BS 7211 (generally to, fire resistant)
<b>Fire Tests</b>	BS EN 50200 PH30, PH60, PH120 BS 6387 C W & Z	<b>Code of Practice</b>	BS 5266 Enhanced Emergency Lighting cable system
<b>Emissions and Flame Propagation</b>	BS EN 50267 (IEC 60754) Acid Gas Emission BS EN 50268 (IEC 61034) Smoke Emission BS EN 50265, 50266 (IEC 60332) Flame Propagation	<b>Emissions and Flame Propagation</b>	BS EN 50267 (IEC 60754) Acid Gas Emission BS EN 50268 (IEC 61034) Smoke Emission BS EN 50265, 50266 (IEC 60332) Flame Propagation
<b>Special Notes</b>	Methods of cable support should withstand a similar temperature and duration to that of the cable.	<b>Special Notes</b>	Methods of cable support should withstand a similar temperature and duration to that of the cable.

## Mineral Accessories

Rotary Stripper  
Ref: ZSU (large)  
Ref: ZSUS (small)



Joy Stripper  
Ref: ZSJ



Cable Gland  
Ref: RGM



Standard Seal  
Ref: RPS



Includes pot, stub cap, compound + sleeving

Hand Crimper  
Ref: ZDC



Pot Wrench  
Ref: ZPE



Zinc Plated Steel Washer  
Ref: RLWS



Earth Tail Seal  
Ref: RPSL



Includes pot, stub cap, compound + sleeving

Plate Type Crimper  
Ref: ZDD



Ringing Tool  
Ref: ZR



Brass Locknut  
Ref: RLM



Sleeving  
Ref: RZP



## Mineral Accessories (continued)

LSZH Shroud  
Ref: RXG



available in red, orange, white, black

Covered One Hole Clip  
Ref: RCHL



available in red, orange, white, black

Covered Two Way Saddle  
Ref: RSFL



available in red, orange, white, black

Bare One Hole Clip  
Ref: RC



Bare Two Way Saddle  
Ref: RS



## Maximum Spacing of Fixings

Overall Diameter of Cable (mm)	Firetec Standard Firetec Enhanced		Firetec Power Firetec Impact Power		Mineral Insulated Cable	
	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical
Up to 9	250	400	-	-	600	800
>9 to 15	300	400	350	450	900	1200
>15 to 20	-	-	400	550	1500	2000
>20 to 40	-	-	450	600	2000	3000
>40 to 60	-	-	800	900	-	-
>60	-	-	1200	1600	-	-

### Notes

- 1 Methods of cable support should withstand a similar temperature and duration to that of the cable. Cables manufactured by AET are supported by AET clips during fire tests to ensure this criteria is met.
- 2 The spacings stated for horizontal runs may be applied also to runs at an angle of more than 30 degrees from the vertical. For runs at an angle of 30 degrees or less from the vertical, the vertical spacings are applicable.

## Firetec Accessories

Firetec Cable Gland  
Ref: FG



available in red, white

Firetec Covered One Hole Clip  
Ref: FCL



available in red, white

Firetec Two Way Saddle  
Ref: FSL



available in red, white

A range of nylon glands and fixings are available for Firetec Standard and Enhanced cables. Details available on request.

## Fire Performance Cable Selection Guide

Codes of Practice		Mineral Cable	Firetec Enhanced	Firetec Standard	Firetec Singlecore	Firetec Power	Firetec Impact Power
Emergency Lighting	BS 5266 Emergency Lighting cable	•	•	•		•	•
	BS 5266 Enhanced Emergency Lighting cable	•	•			•	•
	BS 5266 Emergency Lighting cable system	•	•	•	•	•	•
	BS 5266 Enhanced Emergency Lighting cable system	•	•	•	•	•	•
Fire Alarm	BS 5839 Standard grade	•	•	•		•	•
	BS 5839 Enhanced grade	•	•			•	•
Smoke, Heat & Exhaust Ventilation Systems (SHEVS)	BS 7346-6	•					•
Power and Control	BS 8519 Category 1 Control	•	•	•		•	•
	BS 8519 Category 2 Control	•	•			•	•
	BS 8519 Category 3 Control	•	•			•	•
	BS 8519 Category 1 Power	•					•
	BS 8519 Category 2 Power	•					•
	BS 8519 Category 3 Power	•					•
General	BS 9999	•					•
Manufacturing Standards							
	BS EN 60702-1	•					
	BS 7629		•	•			
	Gen BS 7211				•		
	BS 7846				•		
Fire Resistance Tests							
	BS 6387 C W & Z	•	•	•	•	•	•
	BS EN 50200 PH30	•	•	•		•	•
	BS EN 50200 PH60	•	•	•		•	•
	BS EN 50200 PH120	•	•	•		•	•
	BS 8434-2	•	•			•	•
	BS 8519 Annex B	•	•			•	•
	BS 7846 F2	•				•	•
	BS 7846 F30, F60, F120	•					•
	BS 8491	•					•
	IEC 60331-3	•	•	•	•	•	•
Fire Reaction Tests							
Low smoke zero halogen	BS EN 50267, (IEC 60754) BS EN 50268, (IEC 61034)	•	•	•	•	•	•
Flame propagation	BS EN 50265, BS EN 50266 (IEC 60332)	•	•	•	•	•	•

## Mechanical Protection Cable Selection Guide

System	Code of Practice	Application	Cable	Choice considerations
Conduit Wiring		Conduit wiring	Firetec Singlecore	To be installed in conduit
Fire Alarm	BS 5839	26.2d Standard grade cable	Firetec Standard	Protection may be required
		26.2e Enhanced grade cable	Firetec Enhanced Firetec Power MI Cable	Protection may be required Inherently protected Small, lightweight, protected
Emergency Lighting	BS 5266	Emergency lighting cable	Firetec Standard Firetec Power MI Cable	Protection may be required Inherently protected Inherently protected
		Enhanced Emergency lighting cable	Firetec Enhanced Firetec Power MI Cable	Protection may be required Inherently protected Inherently protected
		Emergency Lighting cable system	Firetec Singlecore Firetec Standard	To be installed in conduit To be installed in conduit
		Enhanced Emergency Lighting cable system	Firetec Singlecore Firetec Enhanced	To be installed in conduit To be installed in conduit
Power and Control	BS 8519	Category 1 Control	MI Cable Firetec Power Firetec Enhanced Firetec Standard	Small, lightweight, protected Inherently protected Protection may be required Protection may be required
		Category 2 Control	MI Cable Firetec Power Firetec Enhanced	Small, lightweight, protected Inherently protected Protection may be required
		Category 3 Control	MI Cable Firetec Power Firetec Enhanced	Small, lightweight, protected Inherently protected Protection may be required
		Category 1 Power	MI Cable Firetec Impact Power	Small, lightweight, protected Inherently protected
		Category 2 Power	MI Cable Firetec Impact Power	Small, lightweight, protected Inherently protected
		Category 3 Power	MI Cable Firetec Impact Power	Small, lightweight, protected Inherently protected

## About us

AEI Cables has been making cable for over 170 years, satisfying many diverse markets and applications around the world.

With a reputation for product excellence and our capability to deliver the goods to global projects, AEI Cables has an enviable position as a world class manufacturer.

## Online

Visit us online and find out more about AEI Cables:

- View all of our products and technical data
- Use our popular 'Cable Wizards'
- Get useful information from our 'Click & Learn' section or test your cable knowledge and play 'AEI Cable Trumps'
- Register to receive all the latest company and industry news via E-Bulletin

## Product Range

- Fire Protection Cables
- Industrial Cables
- Mining Cables
- Oil and Gas Cables
- Defence Cables
- Power Cables
- Rail Cables
- Bespoke Customer Cables



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