


# FP600s

## Fire Resistant Armoured Power Cable

BS 7846-F120 600/1000V

BS 8519 Category 1, 2 and 3 for power cable



Prysmian FP600s is the ultimate fire resistant, armoured cable for power of emergency, life safety and fire-fighting systems used in buildings

### Key Applications

- Designed for clipped directly to a surface, on tray, in basket or in free air. These cables can also be laid direct in ground or in ducts in free draining soil, or embedded in concrete
- Smoke barriers, control dampers and smoke curtains
- Smoke and heat exhaust ventilation systems
- Fire-fighting and evacuation lift supplies
- Extinguishing systems - sprinkler pumps, water mist and powder
- Wet riser pumps
- Stair pressurisation systems

### Features & Benefits

- Fire resistant to BS 7846-F120
- BS 8519 Category 1, 2 and 3 for power
- Suitable for use in large and complex buildings to power fire-fighting equipment
- Reduced flame propagation
- Low Smoke, Zero Halogen (LSOH®) sheath
- Robust armour provides cable with added mechanical protection
- London Underground compliant to S1085 and listed on the Approved Products Register
- Manufactured under ISO 9001 quality management systems

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RELIABILITY  
AT ITS CORE





## Fire Testing

Prysmian Group has its own extensive fire testing facilities in the UK and FP600s is continuously reviewed to meet or exceed the toughest fire test BS 8491 120 minutes, including...

- Two hours of flame applied directly onto the minimum bend radius at 842°C
- Regular direct impact by 25 mm diameter steel bar every ten minutes
- A 5 second jet of water (12.5 l/m) directly onto the burning cable, every minute for the last 5 minutes of the test
- All of this whilst retaining circuit integrity for the whole two hours

## What is FP600s?

FP600s is an armoured power cable with special fire-resistant properties making it the ideal choice for life safety and fire-fighting systems. Prysmian Group develop and manufacture FP600s at its UK factories in compliance with BS 7846 achieving the highest fire performance rating. In addition, FP600s is independently approved by bodies including LPCB and BASEC.

## Why do I need FP600s?

Fire risk assessment of a building must be carried out by law and during the design of large or complex buildings such as skyscrapers, hospitals or shopping centres, the fire risk assessment usually requires life safety and fire-fighting systems to be included. FP600s is the right choice for life safety and fire-fighting systems which includes fire-fighting lifts, smoke extraction fans and sprinkler pumps. These systems all require greater fire performance from cable than for everyday fire alarm and emergency lighting systems. Cable selection guidance is given by BS 8519 and FP600s meets or exceeds all fire test requirements for category 1, 2 & 3 power cable. FP600s has reliability at its core.

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FP 200

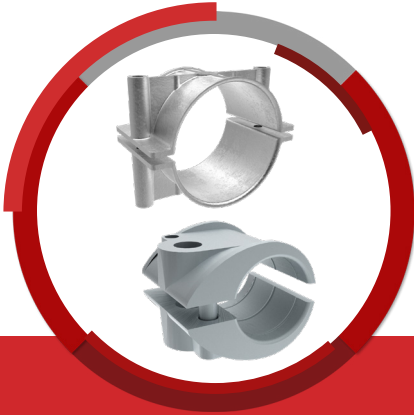
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## Design & Installation

Prysmian FP600s has been designed in the UK to meet the requirements of cable specification BS7846-F120 as stated in BS 8519 for cable selection. This allows electrical design calculations such as voltage drop and current rating to be carried out in the normal way to determine conductor size, bearing in mind the effect of elevated temperature in the event of fire.

FP600s can be installed using the same tools and methods as PVC and LSOH armoured power cables. In addition, BS 8519 recommends fire resistant cables, such as FP600s, should be installed without joints and that cables are fixed directly to the building structure or to cable tray/containment. Prysmian Group endorse this and recommend our BS 8519:2020 news article at

<https://uk.prysmiangroup.com/BS8519-2020>

## Cable Fixings & Glands

Cable fixings need to withstand the same high temperature, direct impact and water jet testing regime as FP600s, without melting or deforming, in order to retain circuit integrity in the event of fire. Cable glands similarly must not reduce circuit integrity but must protect against moisture and particle ingress to ensure electrical integrity. Bicon cable accessories by Prysmian Group have proven low smoke zero halogen performance in the event of fire and are the best choice for FP600s.

## Why Bicon?

Bicon cable accessories feature on the London Underground Approved Product Register (LU APR) including the 370CG cable fixing cleats range. The range of cast iron fixings ensures FP600s retains circuit integrity in the event of fire whereas aluminium or nylon fixings can be expected to deform, melt, or burn. Low Smoke Zero Halogen Bicon cable glands also feature on the LU APR. They secure cable at the equipment entry point and electrically ground the SWA whilst preventing ingress of particles and moisture.

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