

4x300 SHAPED CU MICA XLPE LSOH SWA LSOH 1kV FP600S...

Fire Resistant Armoured Power Cable. BS 7846-F120. 600/1000 V



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

KEY APPLICATIONS

Designed primarily 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, smoke curtains.

Smoke and heat exhaust ventilation systems.

Fire fighting and evacuation lift supplies.

Wet riser pumps.

Extinguishing systems - sprinkler pumps, water mist and powder.

FEATURES AND BENEFITS

- Fire resistant to BS 7846 F120
- Suitable for use in large and complex buildings to power fire fighting equipment
- BS 8519 Category 1, 2 and 3 for power
- Robust armour provides cable with added mechanical protection
- Reduced flame propagation
- London Underground SI085 Approved Products Register
- Low Smoke, Zero Halogen (LSOH®) sheath
- Manufactured under ISO 9001 Quality management systems
- Designed to meet the requirements of London Underground LUL - SI085
- Multi core steel wire armour

STANDARDS



BS 7846 - Category F120

BS 8491 - 120 Minutes

BS 6387 Category CWZ

BS EN 60332-1-2

BS EN 60332-3-24

BS EN 61034-2

BS EN 60754-1

Construction Standard

Fire Resistant Test - Flame, Shock & Water - Up to 120 Minutes

Fire Resistant Tests

Flame Propagation - Single Cable

Flame Propagation - Multiple (bunched) Cables - Category C

Smoke emission

Corrosive and acid gas

CONSTRUCTION

| | |
|--------------------------|------------------------|
| Conductor material | Copper |
| Conductor surface | Bare |
| Core insulation material | Mica + XLPE |
| Armouring/reinforcement | Wire |
| Armouring | Yes |
| Material inner sheath | Low smoke zero halogen |
| Material outer sheath | Low smoke zero halogen |
| Cable shape | Round |

APPLICATIONS PROPERTIES

| | |
|------------------------------------|-------------------------------------|
| Nominal voltage U ₀ [V] | 600 |
| Nominal voltage U [V] | 1,000 |
| Flame retardant | In accordance with BS EN 60332-3-24 |
| Halogen free | Yes |
| Low smoke | Yes |
| Max. conductor temperature [°C] | 90 |
| Min. Operation temperature [°C] | -25 |
| UV resistant | Yes |
| Outdoor installation | Yes |
| Min. Installation temperature [°C] | 0 |
| Max. Installation temperature [°C] | 80 |
| Underground installation | Yes |
| Bending radius (rule) | 8D |

COLOURS

Insulation: Two Cores: Brown, Blue;
 Three Cores: Brown, Black, Grey;
 Four Cores: Blue, Brown, Black, Grey;
 Five Cores: Blue, Brown, Black, Grey, Green/Yellow;
 Sheath: Black

CURRENT RATINGS

Refer to table 4E4 of BS 7671 Requirements for Electrical Installations. IET Wiring Regulations

Note: Where a conductor operates at a temperature exceeding 70°C it shall be ascertained that the equipment connected to the conductor is suitable for the conductor operating temperature

TECHNICAL DATA

| | |
|--|---------------|
| Number of cores | 4 |
| Nominal cross section conductor [mm ²] | 300 |
| Shape of conductor | Sector-shaped |
| Nominal diameter of armouring wire [mm] | 2.5 |
| Nominal diameter under armour [mm] | 59 |
| Nominal outer diameter [mm] | 70 |
| Cable weight [kg/km] | 15,600 |
| Conductor resistance at 20° C [Ohm/km] | 0.0601 |

*The embodied carbon figure is taken from a single product in the range, for more information on how we calculate our embodied carbon figure visit here: <https://uk.prysmiangroup.com/embodied-carbon>

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