

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 S1085 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 S1085
- 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 materialCopperConductor surfaceBareCore insulation materialMica + XLPEArmouring/reinforcementWire

Armouring Yes

Material inner sheath Low smoke zero halogen
Material outer sheath Low smoke zero halogen

Cable shape Round

APPLICATIONS PROPERTIES

Nominal voltage U0 [V] 600 Nominal voltage U [V] 1,000

Flame retardant In accordance with BS EN 60332-3-24

Halogen free Yes Low smoke Yes 90 Max. conductor temperature [°C] -25 Min. Operation temperature [°C] **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 [mm²] 300

Shape of conductor Sector-shaped

Nominal diameter of armouring wire [mm]2.5Nominal diameter under armour [mm]59Nominal outer diameter [mm]70Cable weight [kg/km]15,600Conductor resistance at 20° C [Ohm/km]0.0601

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^{*}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