



## Caledonian

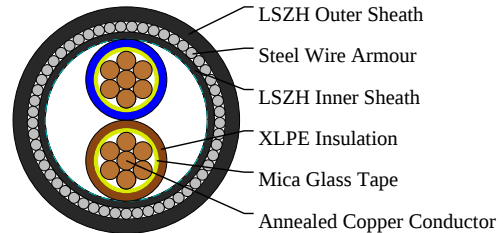
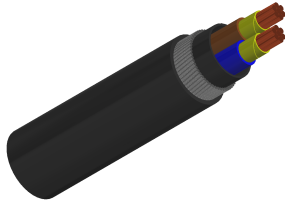
### FIREFLIX Fire Resistant Power & Control Cables

www.caledonian-cables.com

marketing@caledonian-cables.com

#### 600/1000V Mica+XLPE Insulated, LSZH Sheathed, Armoured Power Cables to BS 7846 (2C25)

FFX400 1mRZ1MZ1-R (CU/MGT+XLPE/LSZH/SWA/LSZH 600/1000V Class 2)



#### APPLICATIONS

The cables are mainly used in power stations, mass transit underground passenger systems, airports, petrochemical plants, hotels, hospitals and high-rise buildings.

#### STANDARDS

Basic design to BS 7846

#### APPROVALS

TUV Certification (B 18 07 98200 025)

#### FIRE PERFORMANCE

|                                                                           |                                |
|---------------------------------------------------------------------------|--------------------------------|
| Circuit Integrity                                                         | IEC 60331-21; BS 6387; BS 8491 |
| Flame Retardance (Single vertical wire or cable test)                     | IEC 60332-1-2; EN 60332-1-2    |
| Reduced Fire Propagation (Vertically-mounted bundled wires & cables test) | IEC 60332-3-24; EN 60332-3-24  |
| Halogen Free                                                              | IEC 60754-1; EN 50267-2-1      |
| No Corrosive Gas Emission                                                 | IEC 60754-2; EN 50267-2-2      |
| Minimum Smoke Emission                                                    | IEC 61034-2; EN 61034-2        |

#### VOLTAGE RATING

600/1000V

#### CABLE CONSTRUCTION

Conductor: Annealed copper wire, stranded according to BS EN 60228 class 2.

Fire Barrier: Mica glass tape.

Insulation: XLPE type GP 8 according to BS 7655-1.3. HEPR type GP 6 according to BS 7655-1.2 or crosslinked polyolefin material type EI 5 according to BS EN 50363-5 can be offered as option.

Bedding: Extruded layer of polymeric material.

Armouring: Galvanized steel wire.

Outer Sheath: Extruded layer of polymeric material LTS 1 according to BS 7655-6.1.



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Outer Sheath Option: UV resistance, hydrocarbon resistance, oil resistance, anti-rodent and anti-termite properties can be offered as option.

### COLOUR CODE

Insulation Colour

2-core: Brown and blue.

Sheath Colour: Black; other colours can be offered upon request.

### PHYSICAL AND THERMAL PROPERTIES

Maximum temperature range during operation: 90°C

Maximum short circuit temperature (5 Seconds): 250°C

Minimum bending radius: 8 × Overall Diameter

### DIMENSION AND PARAMETERS

| No. of Cores<br>× Cross-<br>sectional<br>Area | Conductor<br>Class | Nominal<br>Insulation<br>Thickness | Nominal<br>Bedding<br>Thickness | Nominal<br>Sheath<br>Thickness | Nominal<br>Steel Wire<br>Armour<br>Diameter | Approx.<br>Overall<br>Diameter | Approx.<br>Weight |
|-----------------------------------------------|--------------------|------------------------------------|---------------------------------|--------------------------------|---------------------------------------------|--------------------------------|-------------------|
| No. × mm <sup>2</sup>                         |                    | mm                                 | mm                              | mm                             | mm                                          | mm                             | kg/km             |
| 2x25                                          | 2                  | 0.9                                | 0.8                             | 1.6                            | 1.25                                        | 25.7                           | 1386              |



Rated voltage



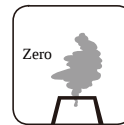
BS 7846



Circuit Integrity  
IEC 60331-21/BS6387/BS 8491



Flame Retardancy  
IEC 60332-1-2



Halogen Free  
IEC 60754-1



Low Corrosivity  
IEC 60754-2



Low Smoke Emission  
IEC 61034-2



Reduced Fire Propagation  
IEC 60332-3-24