



# Caledonian

## FIRETOX LSZH Flame Retardant Power & Control Cables

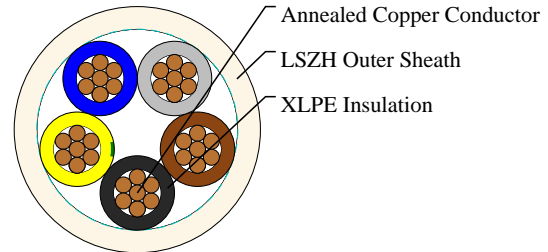
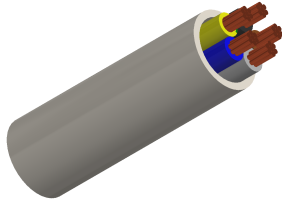
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### 450/750V XLPE Insulated, LSZH Sheathed Power Cables to BS 7211 (5 Cores)

FTX200 07RZ1-R (CU/XLPE/LSZH 450/750V Class 2)

BS Code: 6185B



### APPLICATIONS

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

### STANDARDS

Basic design to BS 7211:2012

### APPROVALS

TUV Certification (Z1 17 08 98200 009)

### FIRE PERFORMANCE

|   |                               |
|---|-------------------------------|
| 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

450/750V

### CABLE CONSTRUCTION

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

Insulation: XLPE type GP8 according to BS 7655-1.3. Crosslinked polyolefin material type EI 5 according to EN 50363-5 can be offered as option.

Inner Covering Option: The optional inner covering, where used, shall consist of an extruded layer of synthetic polymeric material. It shall surround the laid-up two, three, four or five cores, giving the assembly a practically circular shape.

Outer Sheath: Extruded LSZH type LTS 4 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.

3-core: Brown, black and grey.

4-core: Blue, brown black and grey.

5-core: Green/yellow, blue, brown black and grey.

Sheath Colour: White; 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

OD<8mm: 4 × Overall Diameter

8mm#OD#12mm: 5 × Overall Diameter

OD>12mm: 6 × Overall Diameter

### DIMENSION AND PARAMETERS

| No. of Cores<br>× Cross-sectional Area | Conductor Class | Nominal Insulation Thickness | Nominal Sheath Thickness | Approx. Overall Diameter | Approx. Weight |
|--|-----------------|------------------------------|--------------------------|--------------------------|----------------|
| No. x mm <sup>2</sup>                  |                 | mm                           | mm                       | mm                       | kg/km          |
| 5x4                                    | 2               | 0.7                          | 1.4                      | 12.4-16.4                | 460            |



Rated voltage



BS 7211



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