



Caledonian

FIRETOX LSZH Flame Retardant Power & Control Cables

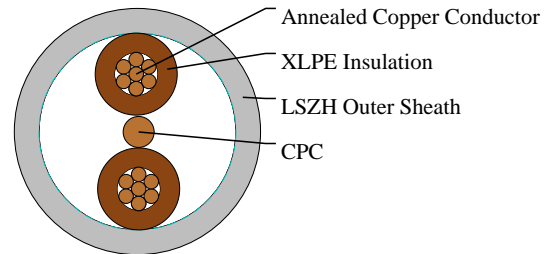
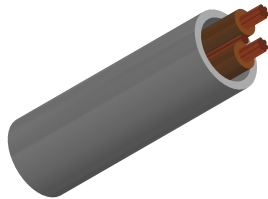
www.caledonian-cables.com

marketing@caledonian-cables.com

300/500V XLPE Insulated, LSZH Sheathed Power Cables to BS 7211 (2 Cores)

FTX200 05RZ1-R 2C1.5(CU/XLPE/LSZH 300/500V Class 2)

BS Code: 6242B



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 7211:2012

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

300/500V

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.

CPC (Circuit Protective Conductor): Uninsulated copper conductor.

Outer Sheath: Extruded LSZH type LTS 2 according to BS 7655-6.1.

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

COLOUR CODE

Insulation Colour: Brown and brown.

Position of CPC: Centrally placed between cores in same plane.



Caledonian

FIRETOX LSZH Flame Retardant Power & Control Cables

www.caledonian-cables.com

marketing@caledonian-cables.com

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

Electrical Properties

Conductor operating temperature: 90°C

Ambient temperature: 30°C

DIMENSION AND PARAMETERS

| No. of Cores × Cross-sectional Area | Conductor Class | Nominal Insulation Thickness | Cross-sectional Area of CPC | Class of CPC | Nominal Sheath Thickness | Overall Diameter (min.) | Overall Diameter (max.) | Approx. Weight |
|-------------------------------------|-----------------|------------------------------|-----------------------------|--------------|--------------------------|-------------------------|-------------------------|----------------|
| No.×mm ² | | mm | mm ² | | mm | mm | mm | kg/km |
| 2x1.5 | 2 | 0.7 | 1 | 1 | 0.9 | 4.5x8.3 | 5.4x10.0 | 90 |

Current-Carrying Capacities (Amp) according to BS 7671:2008 table 4E2A

| Conductor Cross-sectional Area | Ref. Method A One 2C cable, 1-phase a.c. or d.c. | Ref. Method A One 3C or 4C cable, 3-phase a.c. | Ref. Method B One 2C cable, 1-phase a.c. or d.c. | Ref. Method B One 3C or 4C cable, 3-phase a.c. | Ref. Method C One 1C cable, 1-phase a.c. or d.c. | Ref. Method C One 3C or 4C cable, 3-phase a.c. | Ref. Method E One 2C cable, 1-phase a.c. or d.c. | Ref. Method E One 3C or 4C cable, 3-phase a.c. |
|--------------------------------|--------------------------------------------------|------------------------------------------------|--------------------------------------------------|------------------------------------------------|--------------------------------------------------|------------------------------------------------|--------------------------------------------------|------------------------------------------------|
| mm ² | A | A | A | A | A | A | A | A |
| 1.5 | 18.5 | 16.5 | 22 | 19.5 | 24 | 22 | 26 | 23 |

Voltage Drop (Per Amp Per Meter) according to BS 7671:2008 table 4E2B

| Conductor Cross-sectional Area | 2C cable, d.c. | 2C cable, 1-phase a.c. | 3C or 4C cable, 3-phase a.c. |
|--------------------------------|----------------|------------------------|------------------------------|
| mm ² | mV/A/m | mV/A/m | mV/A/m |
| 1.5 | 31 | 31 | 27 |



Caledonian

FIRETOX LSZH Flame Retardant Power & Control Cables

www.caledonian-cables.com

marketing@caledonian-cables.com



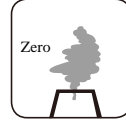
Rated voltage



BS 7211



Flame Retardancy
BS/EN/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