



Caledonian

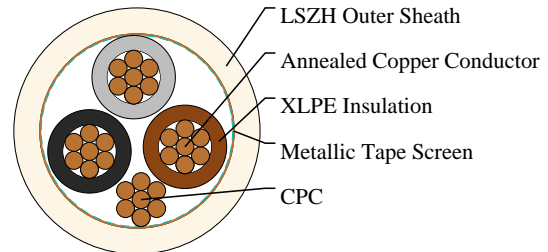
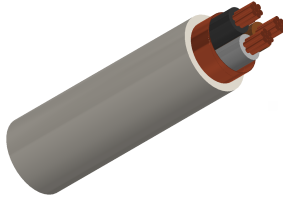
FIRETOX LSZH Flame Retardant Power & Control Cables

www.caledonian-cables.com

marketing@caledonian-cables.com

300/500V XLPE Insulated, LSZH Sheathed, Screened Power Cables to BS 8436 (3 Cores)

FTX200 05ROZ1-R (CU/XLPE/OSCR/LSZH 300/500V 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 8436:2011

FIRE PERFORMANCE

| | |
|---|-----------------------------|
| Flame Retardance (Single vertical wire or cable test) | IEC 60332-1-2; EN 60332-1-2 |
| 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: Tinned annealed copper conductor stranded according to BS EN 60228 class 2.

Insulation: Thermosetting XLPE type GP 8 according to BS 7655-1.3. Crosslinked polyolefin material type EI 5 according to EN 50363-5 or crosslinked elastomeric GP 4/GP 6 according to BS 7655-1.2 can be offered as option.

CPC (Circuit Protective Conductor): Uninsulated tinned annealed copper conductor conforming to BS EN13630:2002.

Screen: One or more metallic or laminated metallic tape(s) shall be applied, either longitudinally or helically or as a combination of both, with the metallic element in contact with the uninsulated circuit protective 13 / 14 conductor.

Outer Sheath: LSZH type LTS 3 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



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Insulation Colour:

3-core + uninsulated circuit protective conductor: Brown, black and grey.

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

PHYSICAL AND THERMAL PROPERTIES

Maximum temperature range during operation: 70°C

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

Minimum bending radius: 6 × Overall Diameter

Electrical Properties

Conductor operating temperature: 70°C

Ambient temperature: 30°C

DIMENSION AND PARAMETERS

| No. of Cores × Cross-sectional Area | Conductor Class | Nominal Insulation Thickness | Nominal Sheath Thickness | Approx. Overall Diameter | Approx. Weight |
|--|-----------------|------------------------------|--------------------------|--------------------------|----------------|
| No. x mm ² | | mm | mm | mm | kg/km |
| 3x4 | 2 | 0.7 | 1.1 | 13.5 | 230 |

Current-Carrying Capacities (Amp) according to BS 7671:2008 table 4D2A

| Conductor Cross-sectional Area | Ref. Method A 2 cables, 1-phase a.c. or d.c. | Ref. Method A 3/4 cables, 3-phase a.c. | Ref. Method B 2 cables, 1-phase a.c. or d.c. | Ref. Method B 3/4 cables, 3-phase a.c. | Ref. Method C 2 cables, 1-phase a.c. or d.c. flat and touching | Ref. Method C 3/4 cables, 3-phase a.c. flat and touching or trefoil | Ref. Method F 2 cables, 1-phase a.c. or d.c. flat | Ref. Method F 3 cables, 3-phase a.c. flat |
|--------------------------------|--|--|--|--|--|---|---|---|
| mm ² | A | A | A | A | A | A | A | A |
| 4 | 25 | 23 | 30 | 27 | 36 | 32 | 40 | 34 |

Voltage Drop (Per Amp Per Meter) according to BS 7671:2008 table 4D2B

| 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 |
| 4 | 11 | 11 | 9.5 |



Rated voltage



BS 8436



Flame Retardancy
BS EN IEC 60332-1-2



Halogen Free
IEC 60754-1



Low Corrosivity
IEC 60754-2



Low Smoke Emission
IEC 61034-2