



Caledonian

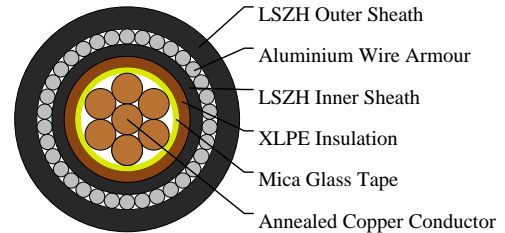
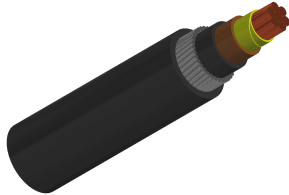
FIREFLIX Fire Resistant Power & Control Cables

www.caledonian-cables.com

marketing@caledonian-cables.com

600/1000V Mica+XLPE Insulated, LSZH Sheathed,Armoured Power Cables to IEC 60502-1 (1C35)

FFX300 1mRZ1MAZ1-R (CU/MGT+XLPE/LSZH/AWA/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 adapted from IEC 60502-1

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: The conductors shall be class 2 plain or metal-coated annealed copper in accordance with IEC60228. Class 1 and class 5 conductor can be offered as option.

Fire Barrier: Mica glass tape.

Insulation: Thermosetting XLPE compound as per IEC 60502-1.

Inner Covering Option: Thermoplastic halogen free compound ST8 as per IEC 60502-1.

Armouring: Aluminium wire.

Outer Sheath: Thermoplastic halogen free compound ST8 as per IEC 60502-1.

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:Brown or blue; other colours can be offered upon request.

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: 6 × Overall Diameter

DIMENSION AND PARAMETERS

| No. of Cores × Cross-sectional Area | Conductor Class | Nominal Insulation Thickness | Nominal Thickness of Inner Covering | Nominal Sheath Thickness | Nominal Aluminum Wire Armour Diameter | Approx. Overall Diameter | Approx. Weight |
|---|--------------------|------------------------------------|--|--------------------------------|--|--------------------------------|-------------------|
| No.×mm ² | | mm | mm | mm | mm | mm | kg/km |
| 1x35 | 2 | 0.9 | 1.0 | 1.8 | 1.25 | 18.5 | 695 |



Rated voltage



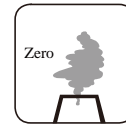
Circuit Integrity
IEC 60331-21/BS6387/BS 8491



Flame Retardancy
BS/EN/IEC 60332-1-2



Flame Retardancy
BS/EN/IEC 60332-3-24



Halogen Free
IEC 60754-1



IEC60502-1



Low Corrosivity
IEC 60754-2



Low Smoke Emission
IEC 61034-2