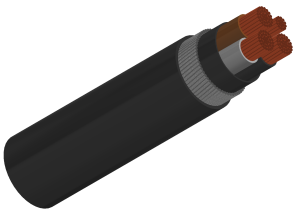
Caledonian

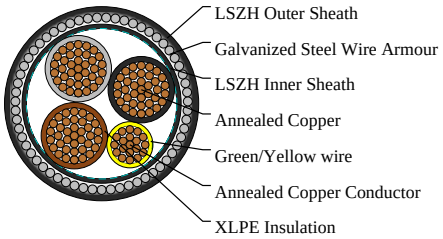
FIRETOX LSZH Flame Retardant Power & Control Cables

www.caledonian-cables.com marketing@caledonian-cables.com

600/1000V XLPE Insulated, LSZH Sheathed, Armoured Power Cables to IEC 60502-1 (3+1 cores)

FTX400 1RZ1MZ1-R 3C150+1G70 (CU/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. This product type is CE approved.

STANDARDS

Basic design to IEC 60502-1

APPROVALS

TUV Certification (B 098200 0033 Rev.00)

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

600/1000V

CABLE CONSTRUCTION

Conductor: The conductors shall be class 2 plain or metal-coated annealed copper in accordance with IEC 60228. Class 1 and class 5 conductor can be offered as option.
Insulation: Thermosetting XLPE material as per IEC 60502-1.
Inner Covering: Thermoplastic halogen free compound ST8 as per IEC 60502-1.
Armouring: Steel wire armour.
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-termiteproperties can be offered as option.

Caledonian

FIRETOX LSZH Flame Retardant Power & Control Cables

www.caledonian-cables.com marketing@caledonian-cables.com

COLOUR CODE

Insulation Colour

3 Cores + 1 Core Earth Conductor: Brown, black, grey,green-yellow。

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

Electrical Properties

Conductor operating temperature: 90°C

Air ambient temperature: 30°C

Ground ambient temperature: 20°C

DIMENSION AND PARAMETERS

No. of Cores × Cross-sectional Area	Conductor Class	Nominal Insulation Thickness	Nominal Insulation Thickness (Earth)	Nominal Bedding Thickness	Nominal Sheath Thickness	Nominal Steel Wire Armour Diameter	Approx. Overall Diameter	Approx. Weight
No.×mm²		mm	mm	mm	mm	mm	mm	kg/km
3×150/70	2	1.4	1.1	1.4	2.7	2.5	55	8812

Current-Carrying Capacities (Amp) according to BS 7671:2008 table 4E4A

Conductor Cross-sectional Area	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 D One 2C cable, 1-phase a.c. or d.c.	Ref. Method D 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.
mm²	A	A	A	A	A	A
150	451	386	306	251	472	406

Voltage Drop (Per Amp Per Meter) according to BS 7671:2008 table 4E4B

Conductor Cross-sectional Area	2C cable, d.c.	2C cable, 1-phase a.c.	3C or 4C cable, 3-phase a.c.
mm²	mV/A/m	mV/A/m	mV/A/m
150	0.31	r:0.32 x:0.145 z:0.35	r:0.38 x:0.125 z:0.30

Caledonian

FIRETOX LSZH Flame Retardant Power & Control Cables

www.caledonian-cables.com marketing@caledonian-cables.com

Rated voltage

Flame Retardancy
IEC 60332-1-2

Halogen Free
IEC 60754-1

IEC60502-1

Low Corrosivity
IEC 60754-2

Low Smoke Emission
IEC 61034-2

Reduced Fire Propagation
IEC 60332-3-24