



# Caledonian

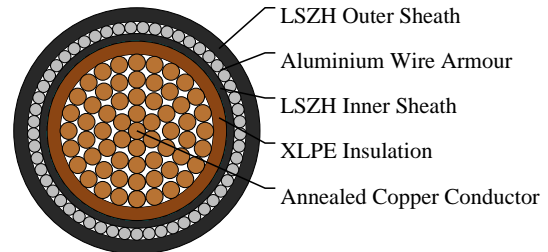
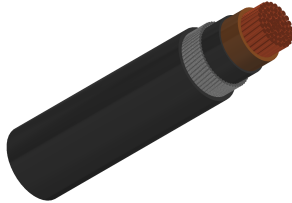
FIRETOX LSZH Flame Retardant Power & Control Cables

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## 600/1000V XLPE Insulated, LSZH Sheathed, Armoured Power Cables to BS 6724 (Single Core)

FTX300 1RZ1MAZ1-R 1C240 (CU/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. This product type is TUV approved.

### STANDARDS

Basic design to BS 6724

### APPROVALS

TUV Certification (No.B 098200 0030 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

### CABLE CONSTRUCTION

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

Insulation: XLPE type GP8 according to BS 7655-1.3. HEPR type GP6 according to BS 7655-1.2 or crosslinked polyolefin material type EI 5 according to BS EN 50363-5 can be offered as option.

Bedding: Extruded layer of polymeric material.

Armouring: Aluminium wire.

Outer Sheath: Extruded layer of polymeric material LTS 1 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 or blue; other colours can be offered upon request.



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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

## 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	Nominal Bedding Thickness	Nominal Sheath Thickness	Nominal Aluminum Wire Armour Diameter	Approx. Overall Diameter	Approx. Weight
No. × mm <sup>2</sup>		mm	mm	mm	mm	mm	kg/km
1×240	2	1.7	1.0	1.8	1.6	32.8	2925

## Current-Carrying Capacities (Amp) according to BS 7671:2008 table 4E3A

Conductor Cross- sectional Area	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	Ref. Method F 3 cables, 3-phase a.c. trefoil	Ref. Method F Spaced by on cable diameter 2 cables, d.c. Horizontal	Ref. Method F Spaced by on cable diameter 2 cables, d.c. Vertical	Ref. Method F Spaced by on cable diameter 2 cables, 1- phase a.c. Horizontal	Ref. Method F Spaced by on cable diameter 2 cables, 1-phase a.c. Vertical	Ref. Method F Spaced by on cable diameter 3/4 cables, 3-phase a.c. Horizontal	Ref. Method F Spaced by on cable diameter 3/4 cables, 3-phase a.c. Vertical
mm <sup>2</sup>	A	A	A	A	A	A	A	A	A	A	A
240	656	579	689	612	625	815	782	749	714	715	666

## Voltage Drop (Per Amp Per Meter) according to BS 7671:2008 table 4E3B

Conductor Cross- sectional Area	2 cables d.c.	Ref. Methods C,F 2 cables, 1-phase a.c. (Cables touching)	Ref. Methods C,F 2 cables, 1-phase a.c. (Cables spaced)	Ref. Methods C,F 3 or 4 cables, 3- phase a.c. (Cables touching, Trefoil)	Ref. Methods C,F 3 or 4 cables, 3- phase a.c. (Cables touching, Flat)	Ref. Methods C,F 3 or 4 cables, 3- phase a.c. (Cables spaced, Flat)
mm <sup>2</sup>	mV/A/m	mV/A/m	mV/A/m	mV/A/m	mV/A/m	mV/A/m
240	0.195	R:0.21 X:0.18 Z:0.28	R:0.24 X:0.26 Z:0.35	R:0.18 X:0.155 Z:0.24	R:0.21 X:0.22 Z:0.30	R:0.24 X:0.28 Z:0.37



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Rated voltage



BS 6724



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