

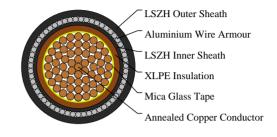
### Caledonian

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 (1C240)

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-termiteproperties 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 <sup>2</sup>		mm	mm	mm	mm	mm	kg/km
1x240	2	1.7	1.0	1.9	1.6	34.5	3380

# Current-Carrying Capacities (Amp) according to 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
mm²	А	А	А	А	А	А	А	А	А	А	А
240	656	579	689	612	625	815	782	749	714	715	666

## Voltage Drop (Per Amp Per Meter) according to 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)
mm²	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:0.180 z:0.28	r:0.24 x:0.26 z:0.35	r:0.180 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

Low Corrosiv IEC 60754-2



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







