

## Caledonian

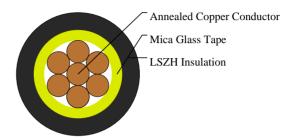
## **FIREFLIX Fire Resistant Power & Control Cables**

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

### 600/1000V Mica+LSZH Insulated, Non-sheathed Power Cables to BS EN 50525-3-41 (Single Core)

FFX100 1mZ-R (CU/MGT+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 BS EN 50525-3-41

#### **FIRE PERFORMANCE**

Circuit Integrity	IEC 60331-21; BS 6387; BS 8491
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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**

600/1000V

#### **CABLE CONSTRUCTION**

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

Fire Barrier: Mica glass tape.

Insulation: Crosslinked polyolefin material type EI 5 according to EN 50363-5.

Insulation Option: UV resistance, hydrocarbon resistance, oil resistance, anti-rodent and anti-termite properties

can be offered as option.

#### **COLOUR CODE**

Black, Blue, Brown, Grey, Orange, Pink, Red, Turquoise, Violet, White, Green and Yellow. Bi-colours of any combination of the above mono-colours are permitted.

## PHYSICAL AND THERMAL PROPERTIES

Maximum temperature range during operation: 90°C Maximum short circuit temperature (5 Seconds): 250°C



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Minimum bending radius

OD<8mm: 4 x Overall Diameter

## **Electrical Properties**

Conductor operating temperature: 90°C

Ambient temperature: 30°

## **DIMENSION AND PARAMETERS**

No. of Cores x Cross-sectional Area	Conductor Class	Nominal Insulation Thickness	Approx. Overall Diameter	Approx. Weight
No.xmm²		mm	mm	kg/km
1×6.0	2	0.8	5.8	78

## Current-Carrying Capacities (Amp) according to BS 7671:2008 table 4E1A

Conductor Cross- sectional Area	Ref. Method A 2cables, 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
mm²	A	A	A	A	A	А
6.0	45	40	54	48	59	54

## Voltage Drop (Per Amp Per Meter) according to BS 7671:2008 table 4E1B

Conductor Cross- sectional Area	2 cables d.c.	Ref. Methods A,B 2 cables, 1-phase a.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 A,B 3 or 4 cables, 3- phase a.c.	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	mV/A/m	mV/A/m
6.0	7.9	7.9	7.9	7.9	6.8	6.8	6.8	6.8



Rated voltage



BS EN 50525-3-41









