

# Caledonian

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

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#### 450/750V Mica+LSZH Insulated, Non-sheathed Power Cables to BS EN 50525-3-41 (Single Core)

FFX100 07mZ-K(CU/MGT+LSZH 450/750V Class5)





#### **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(formerly BS 7211)

#### **FIRE PERFORMANCE**

Circuit Integrity	IEC 60331-21; BS 6387;BS8491
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**

450/750V

#### **CABLE CONSTRUCTION**

Conductor: Copper conductor according to BS EN 60228 class 5.

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.

#### 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:4 x 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	Overall Diameter (min.)	Overall Diameter (max.)	Approx. Weight
No.xmm²		mm	mm	mm	kg/km
1×1.5	5	0.7	3.8	4.5	23

# 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	Α	A	A	Α	A	А
1.5	19	17	23	20	25	23

# 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,G 2 cables, 1-phase a.c. (Cables touching)	Ref. Methods C,F,G 2 cables, 1-phase a.c. (Cables spaced)	Ref. Methods A,B 3 or 4 cables, 3- phase a.c.	Ref. Methods C,F,G 3 or 4 cables, 3-phase a.c. (Cables touching,Trefoil)	Ref. Methods C,F,G 3 or 4 cables, 3-phase a.c. (Cables touching,Flat)	Ref. Methods C,F,G 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
1.5	31	31	31	31	27	27	27	27



Rated voltage



BS EN 50525-3-41









