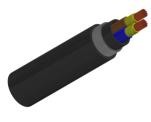
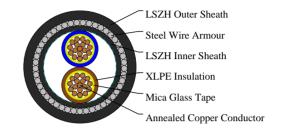


### Caledonian FIREFLIX Fire Resistant Power & Control Cables www.caledonian-cables.com marketing@caledonian-cables.com

# 600/1000V Mica+XLPE Insulated, LSZH Sheathed, Armoured Power Cables to IEC 60502-1 (2-5 Cores)

FFX400 1mRZ1MZ1-R (CU/MGT+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.

#### **STANDARDS**

Basic design adapted from IEC 60502-1

#### **APPROVALS**

CE Certification (GB 1067 5743 16)

#### FIRE PERFORMANCE

Circuit Integrity	IEC 60331-21; BS6387; 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 IEC 60228.

Class 1 and class 5 conductor can be offered as option.

Fire Barrier: Mica glass tape.

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.



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Outer Sheath Option: UV resistance, hydrocarbon resistance, oil resistance, anti-rodent and anti-termite properties can be offered as option.

#### **COLOUR CODE**

Insulation Colour
2-core: Brown and blue.
3-core: Brown, black and grey.
4-core: Blue, brown, black and grey.
5-core: Green-and-yellow, blue, brown, black, grey.
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 circular copper conductors: 6 × Overall Diameter shaped copper conductors: 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 Thickness of Inner Covering	Nominal Sheath Thickness	Nominal Steel Wire Armour Diameter	Approx. Overall Diameter	Approx. Weight
No.×mm <sup>2</sup>		mm	mm	mm	mm	mm	kg/km
2x16	2	0.7	1.0	1.8	1.25	23.1	1103

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

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 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	А	А	А	A	А	А
16	110	94	91	75	115	99

#### 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	

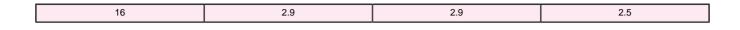


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Rated voltage













Low Smoke Emis IEC 61034-2

