Caledonian

FIRETOX LSZH Flame Retardant Power & Control Cables

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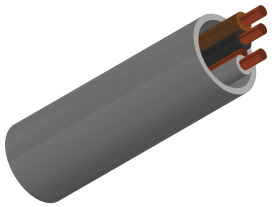
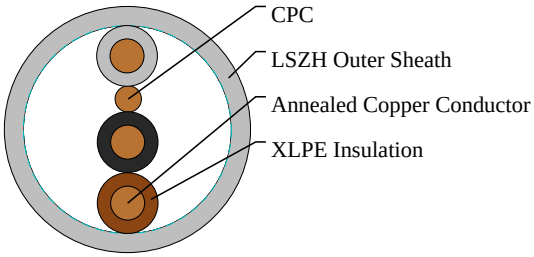
300/500V XLPE Insulated, LSZH Sheathed Power Cables to BS 7211 (3 Cores)

FTX200 05RZ1-U 3C2.5(CU/XLPE/LSZH 300/500V Class 1)
BS Code: 6243B





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 to BS 7211:2012

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

VOLTAGE RATING

300/500V

CABLE CONSTRUCTION

Conductor: Annealed copper conductor, solid according to BS EN 60228 class 1.
Insulation: XLPE type GP8 according to BS 7655-1.3.
Crosslinked polyolefin material type EI 5 according to EN 50363-5 can be offered as option.
CPC (Circuit Protective Conductor): Uninsulated copper conductor.
Outer Sheath: Extruded LSZH type LTS 2 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, black (centre core) and grey.

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Sheath Colour: White; 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
OD<8mm: 4 × Overall Diameter
8mm≤OD≤12mm: 5 × Overall Diameter
OD>12mm: 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	Cross-sectional Area of CPC	Class of CPC	Nominal Sheath Thickness	Overall Diameter (min.)	Overall Diameter (max.)	Approx. Weight
No.×mm²		mm	mm²		mm	mm	mm	kg/km
3x2.5	1	0.7	1.5	1	1	4.9x12.0	6.0x14.6	170

Current-Carrying Capacities (Amp) according to BS 7671:2008 table 4E2A

Conductor Cross-sectional Area	Ref. Method A One 2C cable, 1-phase a.c. or d.c.	Ref. Method A One 3C or 4C cable, 3-phase a.c.	Ref. Method B One 2C cable, 1-phase a.c. or d.c.	Ref. Method B One 3C or 4C cable, 3-phase a.c.	Ref. Method C One 1C cable, 1-phase a.c. or d.c.	Ref. Method C 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	A	A	A	A	A	A	A	A
2.5	25	22	30	26	33	30	36	32

Voltage Drop (Per Amp Per Meter) according to BS 7671:2008 table 4E2B

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
2.5	19	19	16

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Rated voltage

BS 7211

Flame Retardancy
BS/EN/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