



Caledonian

Airport Flame Retardant And Fire Resistant Cables

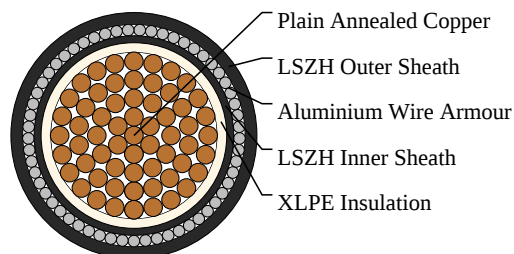
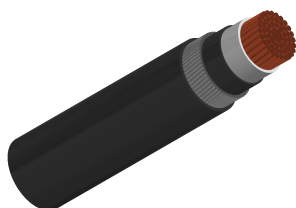
www.caledonian-cables.com

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600/1000V XLPE Insulated, LSZH Sheathed, Armoured Power Cables (Single Core)

FTX300 1RZ1MZ1-R 1G500 (CU/XLPE/LSZH/AWA/LSZH 600/1000V Class 2)

Indoor Feeder Cables



APPLICATIONS

This 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 6724

FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2; VDE 0482-332-1 ; NBN C 30-004 (cat. F1); NF C32-070-2.1(C2);CEI 20-35/1-2; EN 50265-2-1*; DIN VDE 0482-265-2-1*
Reduced Fire Propagation (Vertically-mounted bundled wires& cable test)	EN 60332-3-24 (cat. C); IEC 60332-3-24; BS EN 60332-3-24; VDE 0482-332-3; NBN C 30-004 (cat. F2); NF C32-070-2.2(C1); CEI 20-22/3-4; EN 50266-2-4*; DIN VDE 0482-266-2-4
Halogen Free	IEC 60754-1; EN 50267-2-1; DIN VDE 0482-267-2-1; CEI 20-37/2-1 ; BS 6425-1*
No Corrosive Gas Emission	IEC 60754-2; EN 50267-2-2; DIN VDE 0482-267-2-2; CEI 20-37/2-2 ; BS 6425-2*
Minimum Smoke Emission	IEC 61034-1&2; EN 61034 -1&2; DIN VDE 0482-1034-1&2; CEI 20-37/3-1&2; EN 50268-1&2*; BS 7622-1&2*
No Toxic Gases	NES 02-713; NF C 20-454

VOLTAGE RATING

600/1000V

CABLE CONSTRUCTION

Conductor : Plain annealed copper wire, stranded according to IEC 60228 class 2.

Insulation: Extruded cross-linked XLPE compound.

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Inner sheath : LSZH Compound

Armouring : Aluminium Wire

Outer Sheath : Thermoplastic LSZH compound type LTS3 as per BS 7655-6.1.

COLOUR CODE

Insulation Colour: Natural

Sheath Colour: Black (other colors upon request)

PHYSICAL AND THERMAL PROPERTIES

Temperature Range During Operation: -30°C ~ 90°C

Temperature Range during Installation : -5°C ~ 50°C

Minimum Bending Radius: 8 x OD

Electrical Properties

Dielectric Test: 3500 V r.m.s. x 5' (core / core)

Insulation Resistance: 500 MΩ x km (at 20°C)

Short circuit Temperature :250°C (up to 5 secs)

Conductor Operating Temperature : 90°C

Ambient Temperature : 30°C

DIMENSION AND PARAMETERS

Caledonian Cable Code	No. of Cores × Cross-sectional Area	No./Nominal Diameter of Strands	Nominal Armour Wire Diameter	Diameter under Armour	Nom. Overall Diameter	Approx. Weight
	No.×mm ²	no./mm	mm	mm	mm	kg/km
FTX300 1RZ1MZ1- R 1G500	1x500	61/3.2	2	36.2	44.6	5880

Current-Carrying Capacities (Amp)

Conductor Cross- sectional Area	Ref. Method 1 2 cables, 1-phase a.c. or d.c. flat and touching	Ref. Method 1 3/4 cables, 3- phase a.c. flat and touching or trefoil	Ref. Method 11 2 cables, 1-phase a.c. or d.c. flat and touching	Ref. Method 11 3/4 cables, 3-phase a.c. flat and touching or trefoil	Ref. Method 12 3 cables trefoil, 3- phase a.c.	In single- way ducts 2 cables, 1-phase a.c. or d.c.	In single- way ducts 3/4 cables, 3- phase a.c.	Laid direct in ground 2 cables, 1-phase a.c. or d.c.	Laid direct in ground 3/4 cables, 3- phase a.c.
mm ²	A	A	A	A	A	A	A	A	A
500	962	791	1016	851	918	690	620	910	770

Voltage Drop (Per Amp Per Meter)

[illegible]



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500	0.093	r:0.125 x:0.17 z:0.21	r:0.105 x:0.145 z:0.18	r:0.145 x:0.2 z:0.25	0.33	0.2	0.28	0.18
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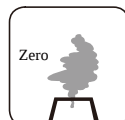
Rated voltage



BS 6724



Flame Retardant
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1



Halogen Free
IEC 60754-1



Low Corrosivity
IEC60754-2/EN50267-3-2/3
NF C32-074/NF C20-453



Low Smoke Emission
IEC 61034-2 / EN 50268-2
NF C32-073/NF C 20-902



Low Toxicity
NES 02-713/NF C 20-454



Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-24/EN50266-2-4