



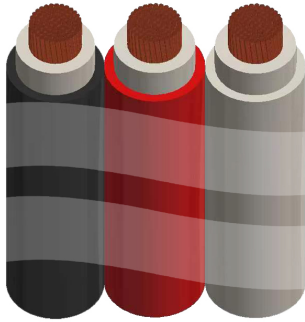
Caledonian

FIRETOX LSZH Flame Retardant Power & Control Cables

www.caledonian-cables.co.uk www.addison-cables.com

600/1000V XLPE Insulated, LSZH Sheathed Power Cables to IEC 60502-1 (Triple Core)

FTX300 1RZ1-R / N2XOH (CU/XLPE/LSZH 600/1000V Class 2)



APPLICATION

These cables are used in low voltage power distribution networks. Special application in places with poor ventilation, direct application in places with public attendance high. They can be installed in ducts, ladders or cable trays, in dry, humid or wet environments.

STANDARDS

IEC 60228; IEC 60502-1

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

600/1000V

CABLE CONSTRUCTION

Conductor: Flexible copper, class 2.

Insulation: Cross linked polyethylene XLPE.

Outer Sheath: Halogen free thermoplastic compound HFFR.

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

Tape: Polyester tape.

COLOUR CODE**Insulation Colour:** Natural.**Sheath Colour:** Black, red and white or black, red and blue.**PHYSICAL AND THERMAL PROPERTIES****Maximum temperature range during operation:** 90°C**Maximum short circuit temperature (5 Seconds):** 250°C**Overload maximum core temperature:** 130°C**CONSTRUCTION PARAMETERS**

Conductor			FTX300 1RZ1-R / N2XOH			
No. of Cores × Cross-sectional Area	Conductor Class	Conductor Diam	Min. Insulation Thick	Min. Outer Sheath Thick	Approx. Overall Diameter	Approx. Weight
No. × mm ²		mm	mm	mm	mm	kg/km
10	2	4.1	0.7	0.9	7.7×22.7	393
16	2	5.3	0.7	0.9	8.8×26.0	565
25	2	6.6	0.9	0.9	10.5×31.2	845
35	2	7.8	0.9	0.9	11.7×34.8	1127
50	2	9.3	1.0	0.9	13.5×40.2	1571
70	2	11.3	1.1	1.0	15.8×47.1	2171
95	2	12.8	1.1	1.0	17.4×51.9	2769
120	2	14.5	1.2	1.1	19.5×58.2	3550
150	2	16.2	1.4	1.2	21.8×65.1	4286
185	2	18.0	1.6	1.2	24.0×71.7	5214
240	2	20.7	1.7	1.2	26.9×80.4	6813
300	2	23.2	1.8	1.3	29.9×89.3	8419
400	2	26.5	2.0	1.5	34.0×101.6	11109
500	2	30.3	2.2	1.6	38.5×115.1	14387



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ELECTRICAL PROPERTIES

Conductor operating temperature: 90°C

Ambient temperature: 30°C

Conductor Cross-sectional area	Max. DC Resist. Cond. 20°C	Perm. Current Buried/Duct 20°C	Perm. Current Rating In Air 30°C - flat formation	Current Rating In Air 30°C - trefoil	Nominal Capacitance
mm ²	Ohm/km	A	A	A	pF/m
10	1.91	58	77	74	445
16	1.21	75	105	101	593
25	0.78	96	141	135	549
35	0.554	115	176	169	637
50	0.386	135	216	207	682
70	0.272	167	279	268	750
95	0.206	197	342	328	840
120	0.161	223	400	383	873
150	0.129	251	464	444	843
185	0.108	281	533	510	803
240	0.0801	324	634	607	866
300	0.0641	365	736	703	916
400	0.0486	426	868	823	944
500	0.0384	481	998	946	983