



Caledonian

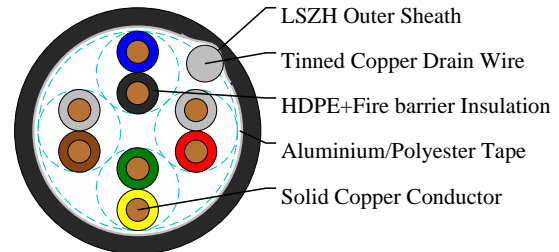
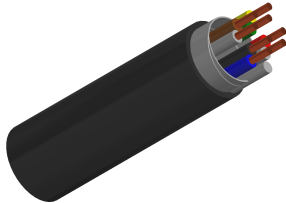
FIREFLIX Fire Resistant Instrumentation & Data Cables

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Fire Resistant CAT6 Data Cables

FFX-CAT6 F/UTP 4P23FR



APPLICATIONS

Cat6 Cable is a cable standard for Gigabit Ethernet and other network protocol, suitable for 10BaseT, 100BaseTx & 1000BaseT (Gigabit Ethernet) application. In addition, these cables can be offered with copper wire braid armoured & flame retardant outer sheath, providing additional mechanical protection still maintaining the flexibility of the cable.

STANDARDS

ISO/IEC 11801

EN 50173

ANSI/TIA/EIA 568

FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire 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
Circuit Integrity	IEC 60331-23; BS 6387 CWZ (Optional)

CABLE CONSTRUCTION

Conductors: 23AWG solid bare copper.

Insulation: HDPE+Fire barrier.

Twining: Two coloured insulated conductors twisted together to form a pair. Four pairs of twisted wires are respectively placed in the 4 grooves of the cross skeleton.

Overall Fire Barrier (optional).

Overall Screen: Aluminium/polyester tape with drain wire.

Outer Sheath: Halogen-free flame retardant thermoplastic LSZH compound type LTS3 as per BS 7655-6.1 (Thermosetting LSZH compound type SW2-SW4 as per BS 7655-2.6 can be offered).



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

PHYSICAL AND THERMAL PROPERTIES

Temperature range: -30°C - +75°C

Minimum bending radius during installation (mobile state): 8 x Overall Diameter

Minimum bending radius during operation (fixed state): 4 x Overall Diameter

Electrical Properties

AWG: 23

Nominal Conductor Diameter: 0.57/0.58mm

Maximum DC Resistance@20°C: 9.38Ω/100m

Maximum DCR Unbalance: 3%

Maximum Mutual Capacitance: 5.8pF/m

Maximum Capacitance Unbalance: 30pF/100m

Characteristic Impedance@1-100MHz: 100±15Ω

Maximum Propagation Delay Skew: 18ns/100m

DIMENSION AND PARAMETERS

Caledonian Cable Code	No. of Pairs	Conductor Diameter	Nominal Diameter over Insulation	Approx. Overall Diameter
		mm	mm	mm
FFX-CAT6 F/ UTP 4P23FR	4	0.57/0.58	1.77	9.3



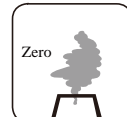
Circuit Integrity
IEC 60331-23/BS 6387(Optional)



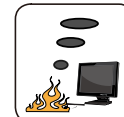
EN 50173



Flame Retardancy
BS EN 60332-1-2



Zero
Halogen Free
IEC 60754-1



Low Corrosivity
IEC 60754-2



Low Smoke Emission
EN 61034-2



Reduced Fire Propagation
EN 60332-3-24