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### **Fire Resistant CAT6 Data Cables**

FFX-CAT6U/UTP4P23FR FFX-CAT6F/UTP4P23FR FFX-CAT6SF/UTP4P23FR

#### **APPLICATION**

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 mechanically protection still maintaining the flexibility of the cable.

#### **STANDARDS**

Basic design adapted to EN 50173

## FIRE PERFORMANCE

Circuit Integrity	IEC 60331-23; BS 6387 CWZ (Optional)		
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		



#### **CABLE CONSTRUCTION**

Conductor	23AWG solid bare copper.
Insulation	HDPE+SR.
Twinning	Two coloured insulated conductors twisted together to form a pair.

Overall Fire Barrier	Mica glass tape.
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).
Outer Sheath Option	UV resistance, hydrocarbon resistance, oil resistance, anti-rodent and anti-termite properties can be offered as option.
Cat6F/UTP	These cables have collective shielding of Aluminium/polyester tape with drain wire.
Cat6SF/UTP	These cables have double collective shielding of Aluminium/polyester tape & copper wire braid with drain wire.

## **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	mm	0.56/0.57/0.58
Maximum DC Resistance@20°C	Ω/100m	9.38
Maximum DCR Unbalance	%	3
Maximum Mutual Capacitance	pf/m	5.8
Maximum Capacitance Unbalance	pf/100m	30
Characteristic Impedance@1-100MHz	Ω	100±15
Maximum Propagation Delay Skew	ns/100m	18

# TRANSMISSION PROPERTIES

dB/100m				Minimum PSELFEXT	Minimum RL
/	dB	dB	dB/100m	dB/100m	dB
1.8	76.0	74.0	70.0	67.0	_
2.0	74.3	72.3	67.8	64.8	20.0
3.8	65.3	63.3	55.7	52.7	23.0
5.3	60.8	58.8	49.7	46.7	24.5
6.0	59.3	57.3	47.8	44.8	25.0
7.6	56.3	54.3	43.7	40.7	25.0
8.5	54.8	52.8	41.7	38.7	25.0
9.5	53.3	51.3	39.8	36.8	24.3
10.7	51.9	49.9	37.9	34.9	23.6
15.4	47.4	45.4	31.8	28.8	21.5
19.8	44.3	42.3	27.8	24.8	20.1
	2.0 3.8 5.3 6.0 7.6 8.5 9.5 10.7 15.4	2.0     74.3       3.8     65.3       5.3     60.8       6.0     59.3       7.6     56.3       8.5     54.8       9.5     53.3       10.7     51.9       15.4     47.4	2.0     74.3     72.3       3.8     65.3     63.3       5.3     60.8     58.8       6.0     59.3     57.3       7.6     56.3     54.3       8.5     54.8     52.8       9.5     53.3     51.3       10.7     51.9     49.9       15.4     47.4     45.4	2.0     74.3     72.3     67.8       3.8     65.3     63.3     55.7       5.3     60.8     58.8     49.7       6.0     59.3     57.3     47.8       7.6     56.3     54.3     43.7       8.5     54.8     52.8     41.7       9.5     53.3     51.3     39.8       10.7     51.9     49.9     37.9       15.4     47.4     45.4     31.8	2.0       74.3       72.3       67.8       64.8         3.8       65.3       63.3       55.7       52.7         5.3       60.8       58.8       49.7       46.7         6.0       59.3       57.3       47.8       44.8         7.6       56.3       54.3       43.7       40.7         8.5       54.8       52.8       41.7       38.7         9.5       53.3       51.3       39.8       36.8         10.7       51.9       49.9       37.9       34.9         15.4       47.4       45.4       31.8       28.8

## Fire Resistant CAT6 Data Cables - Caledonian Cables

CAT6F	-/UTP4P23FR	0.57/0.58	1.	77	4	Overall Aluminum	Tape Screen	9.3	
CAT6L	J/UTP4P23FR 0.56/0.57 1.77		77	4	Nil		8.9	8.9	
		mm	m	m					Let's Chat
Ca	able Code	Conductor Diameter	Diamet Insul		Pairs	Screen		Appro: Dia	➤ Let's chat
ONST	TRUCTION	PARAMETI	RS						Hello, how can I help you?
250	32.8		38.3	3	6.3	19.8	16.8		Caledonian
200	29.0		39.8	3	7.8	21.7	18.7	_1	8.0
155	25.2		41.5	3	9.5	23.9	20.9	1	8.8





Company Information

CAT6SF/UTP4P23FR



0.57/0.58

Services & Support

1.77



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