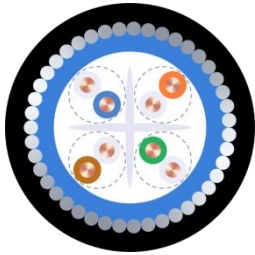


## X-FLAM Enhanced Category 6 U/UTP Robust Networking Cable

23 AWG Conductors • Enhanced Flame Retardance • LSZH • Steel Wire Armour Protected



### Cable Construction



#### Conductor

23 AWG Solid Plain Annealed Copper

#### Insulation

Extruded PE (Polyethylene)

#### Twisting

2 Cores Twisted Together to Form a Pair

#### Lay Up

4 Twisted Pairs Laid Up around X-Shaped Central Dividing Spline

#### Sheath

Extruded LSZH (Low Smoke Zero Halogen) to BS 7655 LTS1-4, IEC 60092 SHF1, EN 50363 TM7

#### Armouring

Galvanised Steel Single Wire Armour  
(In accordance with BS EN 10257-1)

#### Sheath

Extruded X-FLAM Enhanced LSZH (Enhanced Flame Retardant Low Smoke Zero Halogen) to BS 7655 Type LTS1

### Colours & Identification

#### Pair Identification

1 x Brown/White Pair  
 1 x Green/White Pair  
 1 x Orange/White Pair  
 1 x Blue/White Pair

**Inner Sheath Colour**  
Blue

**Outer Sheath Colour**  
Black

### Properties & Standards

#### Standards

TIA/EIA 568-B.2-1  
 ISO/IEC 11801 2nd Ed  
 EN 50288-6-1  
 IEC 61156-5  
 EN 50173

#### Electrical

Bandwidth	250	MHz
Maximum DC loop resistance	165	Ω/km
Maximum Resistance unbalance	2	%
Insulation resistance (500V)	2000	MΩ/km
Nominal Capacitance (@800 Hz)	43	nF/km
Capacitance unbalance (pair-ground)	1500	pF/km
Return Loss (100 MHz)	20.1	dB
Return Loss (250 MHz)	8.47	dB
Nominal velocity of propagation	66	%
Maximum Propagation delay	427	ns/100m
Maximum Delay skew	12	ns/100m

Frequency (MHz)	Nom Attenuation (dB/100m)	Return Loss (dB)
1	2.1	20
4	3.8	23
10	6.0	25
16	7.6	25
20	8.5	25
31.2	10.7	24
62.5	15.5	22
100	19.9	20
200	29.2	18
250	33.0	17

#### Temperature

Operating Temperature Range -20 to +60 °C

#### Fire Performance

Combustible Mass	0.0935	kg/m
Flame Retardance	IEC 60332-1-2	
Flame Retardance	IEC 60332-3-22 (Cat A)	
Halogen Gas Content	IEC 60754-1	
Gas Acidity	IEC 60754-2	
Smoke Emission	IEC 61034	



## Nominal Dimensions

Conductor Gauge	23	AWG
Insulation Diameter	1.00	mm
Inner Sheath Diameter	6.20	mm
Armour Wire Size	0.87	mm
Outer Sheath Diameter	10.74	mm



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Errors & Omissions Excepted.