

X 25 Year System Warranty

X Supports Gigabit Ethernet

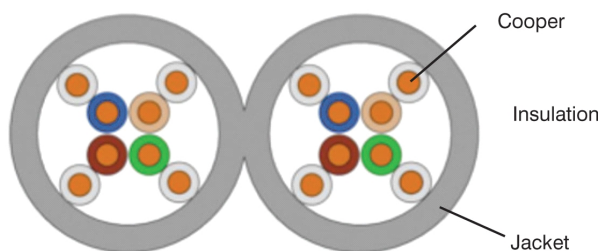
X Twin Cable

## Features

- 25 Year System Warranty
- Twin Cable
- LSOH IEC 332-1 Sheath
- No.2 cabling system by market share, as reported by BSRIA
- Supports Gigabit Ethernet
- Category 5e compliant
- 500 metre reel

## Product Overview

Excel Category 5e Unscreened Twisted Pair (U/UTP) Twin LSOH Cables are manufactured, tested and verified to the ISO, TIA and EN standards for enhanced performance category 5e cables. Each twin cable consists of two sets of 8 colour coded polyethelene insulated conductors. These are twisted together to form two sets of 4 pairs with varying lay lengths. These pairs are jacketed in a violet low smoke zero halogen material, which complies with the requirements of IEC332-1. The printing detail on the sheath, includes the cables part number, specification details and on the reel allowing for quick and easy measurement of cable installed and the amount remaining on the reel.



## Performance Overview

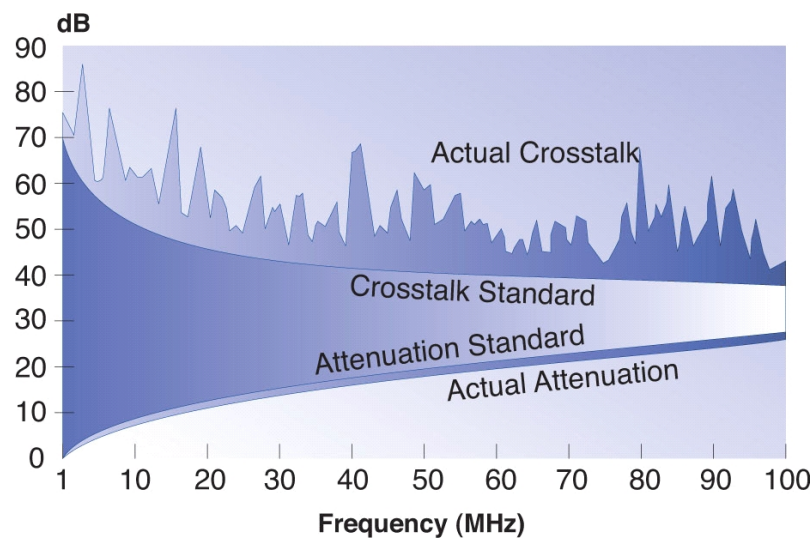
Excel Category 5e cables are manufactured and tested to the Category 5 enhanced standards as defined by the TIA and ISO standards' bodies. Swept frequency tests are applied to each critical performance characteristic, such as near end cross talk (NEXT) and far end cross talk (FEXT). Both Worst Case and Power Sum Test methods are applied. Actual performance exceeds the required standard by a considerable margin ensuring sufficient headroom for even the most demanding applications.

## Specification

Nominal Overall Diameter	5.2mm (each 4 pair unit)
Operation Temperature Range	-10°c to +75°c
Bend Radius	4 x overall diameter installed, 8x installing

Conductor	24AWG Solid Copper
Conductor Insulation	Polyethylene
NVP	70%

Frequency (MHZ)	Impedance (Ohm)	Return Loss (dB)	Attenuation (dB/100m)	NEXT Worst Pair (dB)	NEXT Power Sum (dB)	ELFEXT Worst Pair (dB)	ELFEXT Power Sum (dB)	Velocity of Propagation (%)
0.772		—	1.8	67	64	—	—	
1.0		19	2.0	66	62	64	61	
4.0		20.8	4.1	57	53	52	49	
8.0		21.7	5.8	52	48	46	43	
10.0		22	6.5	51	47	44	41	
16.0	100 ± 15	22	8.2	48	44	40	37	70
20.0		22	9.3	46	42	38	35	
25.0		21.3	10.4	45	41	36	33	
31.25		20.6	11.7	43	39	34	31	
62.5		18.5	17.0	39	35	28	25	
100.0		17.1	22.0	36	32	24	21	



### Typical Applications

- 10Base-T Ethernet
- 155 Mbps ATM
- 100BASE-TX Fast Ethernet
- 622 Mbps ATM
- 1000BASE-T Gigabit Ethernet
- Token Ring

### Part Number Information

Part No.	Description
100-102	Category 5e (U/UTP) Unscreened Dual Cable - LSOH - 500m - White

### System Warranty

The Excel System Warranty provides a 25-year product and applications assurance of compliance with the industry performance standard appropriate to the class of cabling installed. The warranty may be applied for by an accredited Excel Partner who has designed, supplied and installed the said system.



Excel is a world-class premium performing end-to-end infrastructure solution - designed, manufactured, supported and delivered - without compromise.

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