



X 25 Year System Warranty

X Supports Gigabit Ethernet

X Available in PVC & LSOH

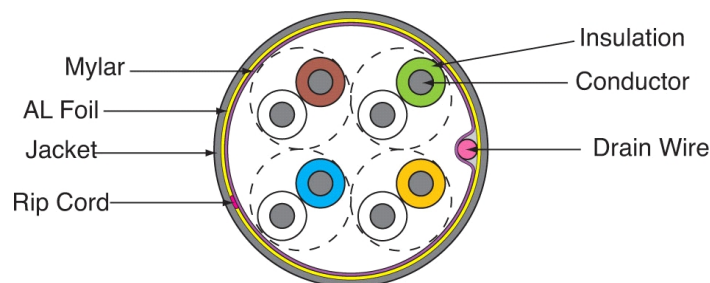
## Features

- 25 Year System Warranty
- Available in PVC & LSOH
- Independently Verified
- Low Smoke Zero Halogen Option
- Supports Gigabit Ethernet
- Category 5e compliant
- Foil Tape Screen

## Product Overview

Excel Category 5e FTP Cables are manufactured, tested and independently verified to the ISO11801 and EIA/TIA standards for enhanced performance Category 5e.

Each cable consists of 8 colour coded 24AWG polyethelene insulated conductors. These are twisted together to form 4 pairs with varying lay lengths. These pairs are wrapped in an aluminium mylar tape screen with a solid 24AWG drain wire and jacketed in a heat resistant PVC or low smoke zero halogen rated material. The printing detail on the sheath, includes the cables part number, specification details and sequential metre marking.



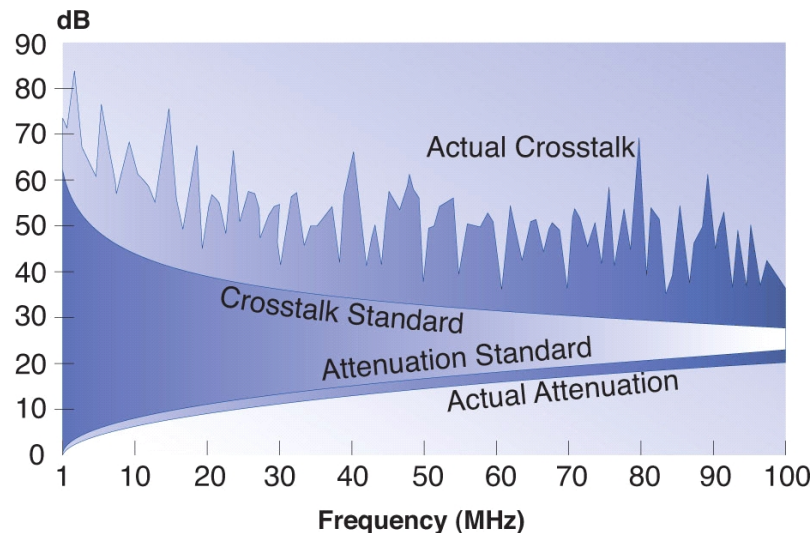
## Specification

Overall Diameter	6.4mm
Installation Temperature Range	0°C to +50°C
Operation Temperature Range	-10°C to +60°C
Bend Radius	4 x overall diameter installed, 8x installing
Conductor	24AWG Solid Copper
Conductor Insulation	Solid Polyethylene
Screen	Al / PET
Drain wire	Tinned Copper
Flame Retardant Test	IEC 332-1
LSOH tested with reference to	IEC 62321, US EPA 3540C, EN 14582:2007

## Performance Overview

Excel Category 5e cables are manufactured to and tested to the current 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.

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
100-216	Category 5e Screened (F/UTP) Cable, Grey, 305m Box
100-217	Category 5e Screened (F/UTP) Cable, LSOH, Violet, 305m Box

### 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.

Contact us at [sales@excel-networking.com](mailto:sales@excel-networking.com)

