



**25 Year System Warranty**

**Category 6 Compliant**

- TIA-568-C.2-2009
- EN50173-1
- ISO/IEC 11801

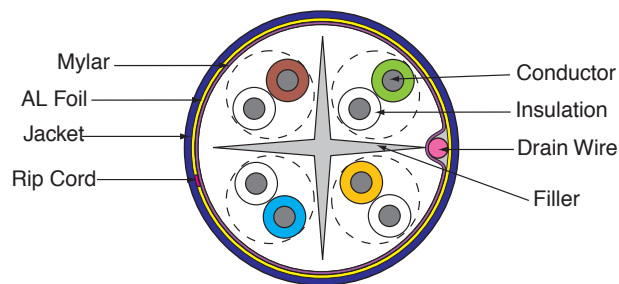
**Features**

- Category 6 compliant
- LSOH outer sheath
- Central 'X' filler
- Overall Foil Tape Screen
- 23AWG conductor
- Supplied on 305 metre reels
- '305-0' metre marked
- 25 year system warranty
- No.4 cabling system by market share, as reported by BSRIA

**Product Overview**

Excel Category 6 F/UTP - foil screened - cables are manufactured and tested to the TIA-568-C.2, EN50173-1 and ISO/IEC 11801 Category 6 specifications. Each cable consists of 8 colour coded 23AWG polyethylene insulated, solid bare copper, conductors. These are twisted together to form 4 pairs with varying lay lengths. These pairs are then formed around a central 'X' shaped polyethylene filler. This filler assists in maintaining and enhancing the cables performance. A clear Mylar tape is then wrapped around this unit and a foil tape screen with 24AWG drain wire applied. The foil screen provides protection from Electromagnetic Interference (EMI) which can occur when data is transmitted at high frequencies.

The printing detail along the outer sheath includes the cable part code, specification detail and our new 305 to 0 metre marked system. As the cable is dispensed from the reel the sequential marking counts down from 305 to 0 metres, as well as reducing waste and accounting easily for cables installed, this innovative print legend finally removes the guesswork from assessing the amount of cable remaining on partly used reels.



**Specification**

Overall Diameter	7.57mm
Installation Temperature Range	0°C to +50°C
Operation Temperature Range	-10°C to +60°C
Minimum Bend Radius	4 x overall diameter installed, 8x during installation
Cable weight	5.08 Kg/100m
305m Reel Weight	18.5 Kg (inc. reel)
Reel Dimensions	400mm Diameter x 254mm
Cable jacket tested to	IEC 62321, US EPA 3540C, BS EN 14582
LSOH Properties	ISO IEC 332-1

## Performance Overview

Excel Category 6 cables are manufactured and tested to the Category 6 performance standards defined by the TIA, ISO and EN standards bodies. A range of performance characteristics are tested upto 250MHz including return loss, attenuation and near and far end crosstalk (NEXT and FEXT) for which both worst case and power sum tests are completed. Actual performance far exceeds the required standard – when tested in isolation and in circuit – resulting in significant headroom for even the most demanding of applications.

As well as providing link and channel compliance with the aforementioned specification – when installed with Excel category 6 components – the cable is also backward compatible with Category 5 and 5e components.

## Typical Performance Test Data

Freq (MHz)	Insertion Loss (dB)		NEXT (dB)		RL (dB)		ACR-F (dB)		PS NEXT (dB)		PS ACR-F (dB)	
	Standard	Excel*	Standard	Excel*	Standard	Excel*	Standard	Excel*	Standard	Excel*	Standard	Excel*
1	-	-	-	-	20	28.6	-	-	-	-	-	-
4	3.8	3.4	66.3	86.5	23	35.8	56	96.7	63.3	82.4	53	85.7
10	6	5.4	60.3	77.6	25	43.2	48	87.3	57.3	75.4	45	77.1
16	7.6	6.9	57.2	76.7	25	41.5	43.9	78.8	54.3	68.5	40.9	72.6
20	8.5	7.7	55.8	73.7	25	47.1	42	76.8	52.8	67.4	39	70.7
31.25	10.7	9.7	52.9	73	23.6	44.4	38.1	68.6	49.9	69.6	35.1	69.1
62.5	15.5	13.9	48.4	65.7	21.5	42.7	32.1	62.3	45.4	57.9	29.1	63.6
100	19.9	17.7	45.3	69.1	20.1	35	28	60.6	42.3	58.2	25	53.5
200	29.1	25.2	40.8	54	18	28.4	22	63.6	37.8	49.7	19	45.4
250	33	28.3	39.3	53.8	17.3	23.4	20	46.5	36.3	53.2	17	44.8

\*Typical Result

Nominal velocity of propagation (NVP 83.6%)

## System Warranty

When installed with Excel Category 6 cables and components by an accredited Excel Cabling Partner, this product is supported by a comprehensive 25 year product and applications warranty. This warranty assures not just standard compliance but also backward compatibility with Category 5 and 5e cables and components.

## Typical Applications

- 100BASE-TX Fast Ethernet
- 1000BASE-T Gigabit Ethernet
- Composite Video
- Token Ring
- 155 Mbps ATM
- 622 Mbps ATM

## Part Number Information

Part No.	Description
100-073	Excel Category 6 Cable LSOH, 305m Reel



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