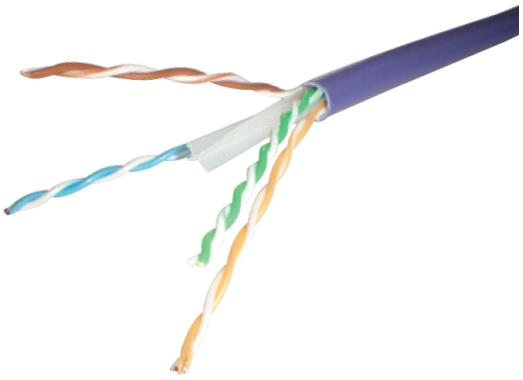
Excel Category 6 Unscreened Twisted Pair (UTP) Cable - LSOH



- 25 Year System Warranty
- EC Verified
- Category 6 Compliant • TIA/EIA 568-B.2-1 • EN50173-1 • ISO/IEC 11801

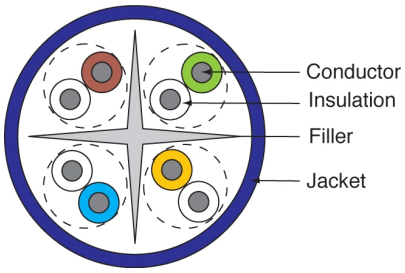
Features

- 25 Year System Warranty
- LSOH outer sheath
- Fast Feed Reelex Packaging
- Category 6 Compliant • TIA/EIA 568-B.2-1 • EN50173-1 • ISO/IEC 11801
- EC Verified
- 23AWG conductor
- '305-0' metre marked
- No.2 cabling system by market share, as reported by BSRIA

Product Overview

Excel Category 6 UTP cables are manufactured and tested to the TIA/EIA 568-B.2-1, EN50173-1 and ISO/ IEC 11801 Category 6 specifications. Each cable consists of 8 colour coded 23AWG polyethylene insulated 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.

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 box 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 in partly used boxes.



Specification

Overall Diameter	6.2mm
Installation Temperature Range	0˚c to +60˚c
Nominal Velocity of Propagation (NVP)	69%
Operating Temperature Range	-20˚c to +75˚c
Bend Radius	4 x overall diameter installed, 8x during installation
Cable weight	4.10 Kg/100m
305m Reel Weight	13.2 Kg (inc. box)
Box Dimensions	255mm wide x 415mm high x 415mm deep
Standard of flame retardancy	IEC 60332-1-[1,2] (2004-07), IEC 60754-(1,2), IEC 61034-(1,2)
Cable jacket tested to	IEC 62321, US EPA 3540C, BS EN 14582

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	Max. IL (dB)		Min. NEXT (dB)		Min. RL (dB)		Min. ACR-F (dB)		Min. PS NEXT (dB)		Min. PS ACR-F (dB)	
MHz	Standard	Excel*	Standard	Excel*	Standard	Excel*	Standard	Excel*	Standard	Excel*	Standard	Excel*
1	2.8	1.9	66.0	88.9	20	28	66	85.2	64.0	88.5	64.0	80.1
4	3.8	3.6	66.3	83.7	23	37.2	56	83.4	63.3	77.7	53	73.3
10	6	5.7	60.3	67.6	25	41.8	48	75	57.3	66.5	45	63.7
16	7.6	7.3	57.2	70.1	25	48.4	43.9	70.6	54.3	66.8	40.9	57.2
20	8.5	8.2	55.8	71.9	25	46.3	42	64.9	52.8	63.9	39	55.1
31.25	10.7	10.3	52.9	63.4	23.6	38.2	38.1	66.1	49.9	61.6	35.1	55.9
62.5	15.5	14.7	48.4	60.9	21.5	35.8	32.1	46.6	45.4	59.4	29.1	45.2
100	19.9	18.8	45.3	56.2	20.1	29.5	28	43.1	42.3	54.3	25	39.3
200	29.1	27.2	40.8	55.1	18	24.9	22	38.9	37.8	51	19	34.9
250	33	30.2	39.3	50.9	17.3	23.8	20	29.3	36.3	50.5	17	26.3

*Typical Result

Typical Applications

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

Part Number Information

Part No.	Description
100-071	Category 6 Unscreened (U/UTP) Cable LSOH, Violet, 305m box
100-070	Category 6 Unscreened (U/UTP) Cable PVC, Grey, 305m box
100-074	Category 6 Unscreened (U/UTP) Cable LSOH, White, 305m box
100-075	Category 6 Unscreened (U/UTP) Cable LSOH, Orange, 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.

25 YEAR WARRANTY excel

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**

excel without compromise.

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