



25 Year System Warranty

Category 6 Compliant

- TIA/EIA 568-B.2-1
- EN50173-1
- ISO/IEC 11801

EC Verified

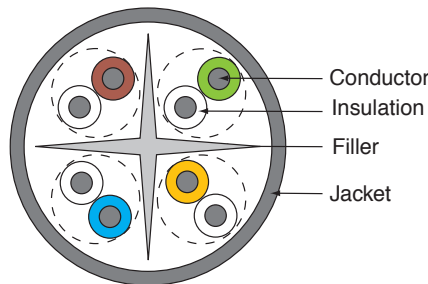
Features

- Category 6 compliant
- PVC outer sheath
- Central 'X' filler
- Backward Compatible
- 23AWG conductor
- Fast Feed Reelex Packaging
- 305-0' metre marked
- 25 year system warranty
- Independently component tested
- No.4 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 +50°C
Nominal Velocity of Propagation (NVP)	69%
Operation Temperature Range	-10°C to +60°C
Bend Radius	4 x overall diameter installed, 8x during installation
Cable weight	4.10 Kg/100m
305m Box 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)

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	-	-	-	-	-	-
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

Nominal velocity of propagation (NVP 69%)

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.

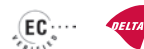
Typical Applications

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

Part Number Information

Part No.	Description
100-070	Excel Category 6 PVC Cable Grey

EC verified. This product has been tested by the Delta EC Cabling Group and complies with the following standards - ISO/IEC 11801:2002 2nd edition, IEC 61156-5:2002, EN50173-1:2007 and ANSI/EIA/TIA-568-b.2-1. For copies of test certification please contact you local Excel distributor, or visit www.excel-networking.com or www.delta.dk.



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