# Excel Category 5e Unscreened Twisted Pair (U/UTP) Cable - PVC

**excel** *without compromise.*

CAT5e

DELTA

**X** 25 Year System Warranty

**X** Supports Gigabit Ethernet

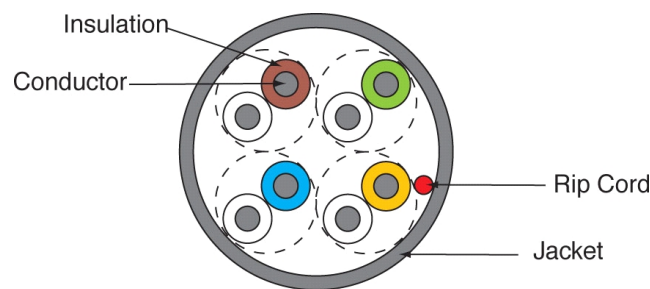**X** Independent Certification

## Features

- 25 Year System Warranty
- Independent Certification
- 305 to 0 Metre Marked
- No.2 cabling system by market share, as reported by BSRIA

- Supports Gigabit Ethernet
- Category 5e compliant
- Available in double box with outer carton for added protection

## Product Overview

Excel Category 5e UTP Cables are manufactured, tested and verified to the ISO/IEC 11801 2nd Edition, EN 50173:2007 and ANSI/TIA-568-C.2 standards for enhanced performance Category 5e cables.

Each cable consists of 8 colour coded polyethelene insulated conductors. These are twisted together to form 4 pairs with varying lay lengths. These pairs, together with a strong nylon rip cord are jacketed in a heat resistant PVC material. The printing detail on the sheath, includes the cables part number, specification details and a unique 305-0 metre marking within each box supplied, allowing for quick and easy measurement of cable installed and the amount remaining within the box. A choice of jacket colour enables departmental or application identification where necessary.



## Specification

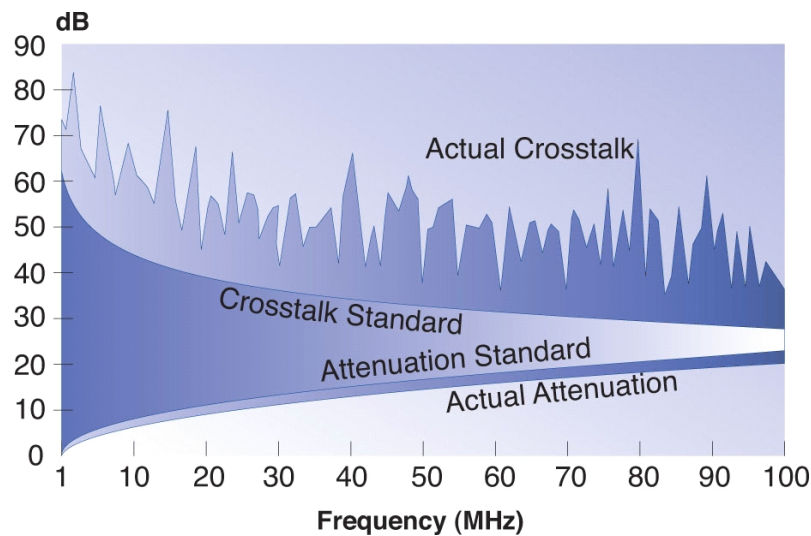| | |
|---|---|
| PVC Outer Sheath | - |
| Nominal Overall Diameter | 5.2mm |
| Operation Temperature Range | -10˚c to +75˚c |
| Bend Radius | 4 x overall diameter installed, 8x installing |
| Conductor | 24AWG Solid Copper |
| Conductor Insulation | Polyethylene |
| Standard of flame retardancy | IEC 60332-1-[1,2] (2004-07) |
| NVP | 70% |

## Performance / Specification Table

| Frequency (MHZ) | Insertion Loss (dB) | NEXT (dB) | Return Loss (dB) | ACR-N (dB) | ACR-F (dB) | PS NEXT (dB) | PS ACR-F (dB) |
|---|---|---|---|---|---|---|---|
| 1.0 | 2 | 62 | 20 | 60 | 64 | 62 | 64 |
| 4.0 | 3.8 | 53 | 23 | 49.2 | 52 | 53 | 51 |
| 10.0 | 6.5 | 47 | 25 | 40.5 | 44 | 47.3 | 44 |
| 16.0 | 8.2 | 44 | 25 | 35.8 | 39.9 | 44.2 | 40.9 |
| 20.0 | 9.2 | 43 | 25 | 33.8 | 38 | 42.8 | 39 |
| 31.25 | 11.7 | 40 | 23.6 | 38.3 | 34.1 | 39.9 | 35.1 |
| 62.5 | 17 | 35 | 21.5 | 18 | 28.1 | 35.4 | 29.1 |
| 100.0 | 22 | 32 | 20.1 | 10 | 24 | 32.3 | 25 |

Impedance (1-100 MHz) = 100 ± 15Ω

## Performance Overview

Excel Category 5e cables are manufactured and tested to the Category 5 enhanced standards as defined by the EIA/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.



## 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 |
|---|---|
| 100-065 | Category 5e (U/UTP) Unscreened Cable - 305m Box |
| 100-059 | Category 5e (U/UTP) Unscreened Cable - 500m Box - Grey |

## 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.