

X 25 Year System Warranty

X Supports Gigabit Ethernet

X External Duct Grade

Features

- 25 Year System Warranty
- External Duct Grade
- Central 'X' filler
- Fast Feed Reellex Packaging
- UV and Moisture Resistant Polyethelene Outer Sheath
- Supports Gigabit Ethernet
- Category 6 compliant
- 23AWG conductor
- '305-0' metre marked
- No.2 cabling system by market share, as reported by BSRIA

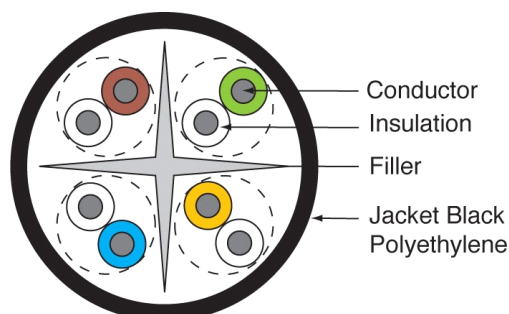
Product Overview

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. A jacket of UV and moisture resistant polyethelene is applied making this cable ideal for outdoor installation.

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.

Due to the risk of lightning or over-voltage damage both ends of the external cable must be fitted with equipment suitable for protecting the computer system and operators from a direct or indirect lightning strike or other overvoltage situation. These devices are available in many forms, but are usually system specific and you will need to contact the manufacturer of these devices to ensure the requirements of the network is met.

Excel recommends the use of optical fibre in all external cabling, and any damage to the cabling system due to lightning strikes or over-voltage is solely at the risk of the installer.



Specification

UV and Moisture Resistant Polyethylene Outer Sheath

Nominal Overall Diameter	6.3mm
Operating Temperature Range	-10° c to +75° c
Bend Radius	4 x overall diameter installed, 8x during installation
Conductor	Solid Copper
Conductor Insulator	Solid Polyethylene
'X' Shaped Central Filler	Polyethylene
NVP	70%

Performance Overview

Excel Category 6 cables are manufactured and tested to the Category 6 performance standards defined by the ISO 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.

Performance / Specification Table

Frequency (MHz)	Return loss (dB)	Attenuation (dB/100m)	NEXT (dB)	PSNEXT (dB)	FLEXT (dB/100m)	PSELFEXT (dB/100m)	Delay (ns/100m)
1	20	2	66	64	67.8	64.8	570
4	23	3.8	65.3	63.3	55.8	52.8	552
10	25	6	59.3	57.3	47.8	44.8	545.4
16	25	7.6	56.2	54.2	43.7	40.7	543
20	25	8.5	54.8	52.8	41.8	38.8	542
31.25	23.6	10.7	51.9	49.9	37.9	34.9	540.4
62.5	21.5	15.4	47.4	45.4	31.9	28.9	538.6
100	20.1	19.8	44.3	42.3	27.8	24.8	537.6
150	18.8	24.7	41.7	39.7	24.3	21.3	536.9
200	18	29	39.8	37.8	21.8	18.8	536.5
250	17.3	32.8	38.3	36.3	19.8	16.8	536.3

Typical Applications

- 10Base-T Ethernet
- 100BASE-TX Fast Ethernet
- Token Ring
- 1000BASE-T Gigabit Ethernet
- 155 Mbps ATM
- Composite Video
- 622 Mbps ATM

Part Number Information

Part No.	Description
100-100	Category 6 (U/UTP) Unscreened External Cable (PE) - 305m Fast Reel Box - Black

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

