



X 25 Year System Warranty

X Supports Gigabit Ethernet

X External Duct Grade

### Features

- 25 Year System Warranty
- External Duct Grade
- Power Sum Compliant
- UV and Moisture Resistant Polyethelene Outer Sheath
- Supports Gigabit Ethernet
- Category 5e compliant
- 305 to 0 Metre Marked
- No.2 cabling system by market share, as reported by BSRIA

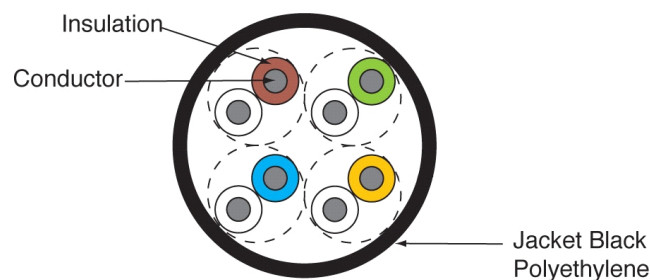
### Product Overview

Excel Category 5e UTP Cables are manufactured, tested and verified to the ISO & TIA 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 are jacketed in a heat and UV, moisture resistant black polyethylene outer sheath, make this cable ideal for outdoor installation. 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.

Due to the risk of lightning or over-voltage damage both ends of the external cable must be fitted with equipment suitable of 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.



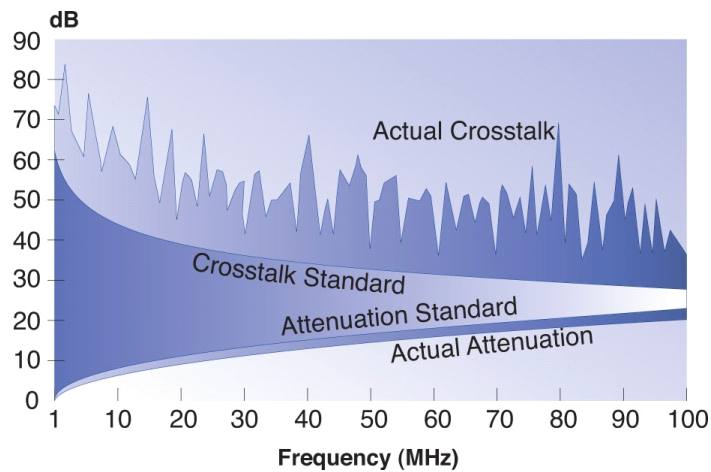
### Specification

UV and Moisture Resistant Polyethelene Outer Sheath	-
Nominal Overall Diameter	5.2mm
Installation Temperature Range:	0°C to +50°C
Operation Temperature Range	-20°C to +60°C
Bend Radius	4 x overall diameter installed, 8x installing
Conductor	Solid Copper
Conductor Insulation	Solid Polyethelene
NVP	70%

## 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.

Frequency (MHZ)	Impedance (Ohm)	Return Loss (dB)	Attenuation (dB/100m)	NEXT Worst Pair (dB)	NEXT Power Sum (dB)	ELFEXT Worst Pair (dB)	ELFEXT Power Sum (dB)	Velocity of Propagation (%)
0.772		—	1.8	67	64	—	—	
1.0		19	2.0	66	62	64	61	
4.0		20.8	4.1	57	53	52	49	
8.0		21.7	5.8	52	48	46	43	
10.0		22	6.5	51	47	44	41	
16.0	100 ± 15	22	8.2	48	44	40	37	70
20.0		22	9.3	46	42	38	35	
25.0		21.3	10.4	45	41	36	33	
31.25		20.6	11.7	43	39	34	31	
62.5		18.5	17.0	39	35	28	25	
100.0		17.1	22.0	36	32	24	21	



## 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
100-090	Category 5e (U/UTP) Unscreened Cable - External Grade - 305m 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.



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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](mailto:sales@excel-networking.com)



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