

# Excel Category 6 Unscreened Twisted Pair (UTP) Patch Leads - LSOH

**excel**  
without compromise.



✕ LSOH Outer Sheath as standard

✕ Independently Verified

✕ 25 Year System Warranty

✕ Blade Style Strain Relief Boots

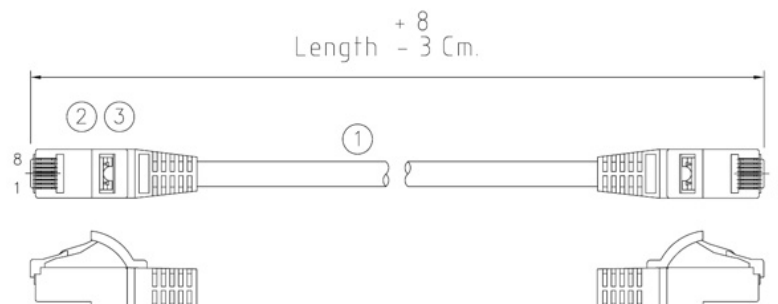
## Features

- LSOH Outer Sheath as standard
- 25 Year System Warranty
- Category 6 compliant
- 'Stepped' RJ45 connector pins
- No.2 cabling system by market share, as reported by BSRIA
- Independently Verified
- Blade Style Strain Relief Boots
- Backward Compatible with Category 5e
- Choice of Colour

## Product Overview

Excel Category 6 UTP patch leads are manufactured and tested to ISO & EN requirements for patch cord assemblies. Using these Excel patch cords will ensure the installed cabling system is compliant with the TIA/EIA, ISO & EN channel specification requirements, and will provide optimum performance levels of your Excel Category 6 cabling.

A choice of lengths and colours are available, colour coded slimline molded boots suitable for use in high density routers or switch blades are standard and each cable is supplied individually bagged. Each cable has a low smoke zero halogen outer sheath as standard and ideal for use in office and data centre environments.



1. 4 Pair unscreened LSOH cable
2. RJ45 connector with 50 µin (microinch) gold plated staggered pins
3. Slimline blade style strain relief boot

## Performance / Specification Table

Conductor	24AWG (7/0.145mm), Stranded Plain Copper
Insulation	Polyethylene
Outer Sheath	Flame resistant, Low Smoke Zero Halogen
Outer Diameter	6.0mm +/- 0.2mm
RJ45 Connector	50 µin (microinch) minimum Gold plate in localised area (Gold flash over remainder) over 100 µin (microinch) Nickel undercoat contact pins
Durability	750 Insertion Cycles (plug in/out)
Contact Resistance	230Ω maximum
Resistance Unbalance	2% maximum
Dielectric Strength	2500VDC for 3 seconds
Insulation Resistance	150MΩ/km minimum
Installation Temperature Range	0°C to +60°C
Operating Temperature Range	-20°C to +60°C
Flame Retardant	IEC 60332-1
Smoke Emission	IEC 61034

## Performance Overview

Excel Category 6 patch leads are manufactured and tested to the latest specification requirements as defined by the relevant standards bodies. A range of performance characteristics are tested up to 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 - when installed with Excel Category 6 components - with the aforementioned specification - the panel is also backward compatible with Category 5 and 5e components.

The Excel range of Category 6 LSOH Patch Cords have been tested and certified to carry the ETL Verification Mark. Copies of the ETL Certificate of Conformance are available on [www.excel-networking.com](http://www.excel-networking.com)

## Typical Performance Data

Frequency (MHz)	NEXT (dB)		Return Loss (dB)	
	Limit (min.)	Typical	Limit (min.)	Typical
1	65.0	97.6		36.8
4	65.0	89.5	21.6	34.1
8	65.0	88.0	22.5	32.6
10	65.0	88.7	22.8	32.5
16	61.0	98.4	23.4	33.7
20	59.1	83.9	23.7	36.3
25	57.2	75.7	24.0	40.4
31.25	55.4	71.9	23.1	43.2
62.5	49.6	69.1	20.0	37.0
100	45.7	66.1	18.0	31.3
200	40.1	54.0	15.0	32.8
250	38.3	40.3	14.0	23.5

The results in the above table are typical for Excel Category 6 Patch Leads up to 10 m in length. This test represents a 3 m Patch Lead. The Patch Lead component limits for NEXT and RL are length specific.

## Typical Applications

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

## Part Number Information

Part No.	Description
100-403	Category 6 (UTP) Unscreened Patch Lead Booted LSOH - 0.3m - Grey
100-395	Category 6 (UTP) Unscreened Patch Lead Booted LSOH - 0.5m - Grey
100-310	Category 6 (UTP) Unscreened Patch Lead Booted LSOH - 1m - Grey
100-311	Category 6 (UTP) Unscreened Patch Lead Booted LSOH - 2m - Grey
100-312	Category 6 (UTP) Unscreened Patch Lead Booted LSOH - 3m - Grey
100-357	Category 6 (UTP) Unscreened Patch Lead Booted LSOH - 4m - Grey
100-314	Category 6 (UTP) Unscreened Patch Lead Booted LSOH - 5m - Grey
100-318	Category 6 (UTP) Unscreened Patch Lead Booted LSOH - 6m - Grey
100-414	Category 6 (UTP) Unscreened Patch Lead Booted LSOH - 7m - Grey
100-352	Category 6 (UTP) Unscreened Patch Lead Booted LSOH - 8m - Grey
100-335	Category 6 (UTP) Unscreened Patch Lead Booted LSOH - 10m - Grey
100-336	Category 6 (UTP) Unscreened Patch Lead Booted LSOH - 15m - Grey
100-337	Category 6 (UTP) Unscreened Patch Lead Booted LSOH - 20m - Grey

Also available in Red (RD), Blue (BU), Black (BK), Green (GN), Yellow(YW), White (WT), Violet (VT), Orange (OR), Pink (PK).

Please contact our sales office for details

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



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