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

excel without compromise.

CAT6 DELTA

X LSOH Outer Sheath as standard

X Independently Verified

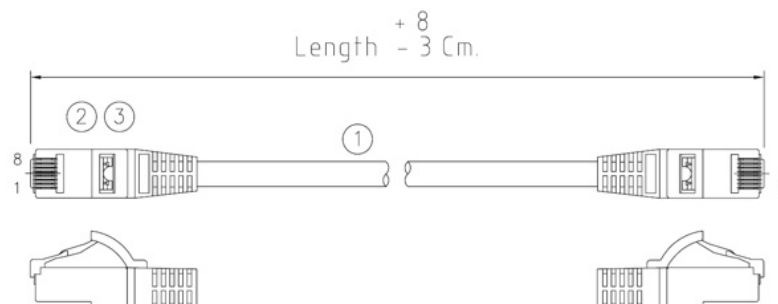X 25 Year System Warranty

X Blade Style Strain Relief Boots

Features

- LSOH Outer Sheath as standard
- 25 Year System Warranty
- Category 6 compliant
- 'Stepped' RJ45 connector pins

- 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.

Length $^{+8}_{-3}$ Cm.

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 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 – 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

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 upto 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

Length (M)	Grey	Red	Blue	Black	Orange	Pink
0.3	100-403	100-403-RD	100-403-BU	100-403-BK	100-403-OR	100-403-PK
0.5	100-395	-	-	-	-	-
1	100-310	100-315	100-325	100-350	100-426	100-559
1.5	100-550	100-551	100-552	100-553	100-558	-
2	100-311	100-316	100-326	100-360	100-427	100-560
3	100-312	100-317	100-327	100-371	100-428	100-561
4	100-357	100-358	100-364	-	-	-
5	100-314	100-319	100-329	100-373	100-429	100-562
6	100-318	100-323	100-334	-	100-404	-
7	100-414	100-422	-	100-400	100-402	-
8	100-352	-	100-355	-	100-499	-
10	100-335	100-338	100-344	100-401	100-412	100-563
15	100-336	100-339	100-345	-	100-431	-
20	100-337	100-340	100-346	-	100-413	-

Length (M)	Green	Yellow	White	Violet
0.3	100-403-GN	100-403-YW	100-403-WT	100-403-VT
0.5	-	-	100-415	-
1	100-320	100-330	100-416	100-387
1.5	100-554	100-555	100-556	100-557
2	100-321	100-331	100-417	100-388
3	100-322	100-332	100-418	100-389
4	100-359	100-365	-	-
5	100-324	100-333	100-419	100-392
6	100-328	100-351	-	-
7	100-424	100-425	100-420	-
8	100-354	100-356	-	-
10	100-341	100-347	100-421	100-390
15	100-342	100-348	-	100-393
20	100-343	100-349	-	100-391

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**

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