

X 25 Year System Warranty

X Lightweight, Compact Design

X LSOH Outer Sheath

X Slimline Molded Strain Relief Boot

Features

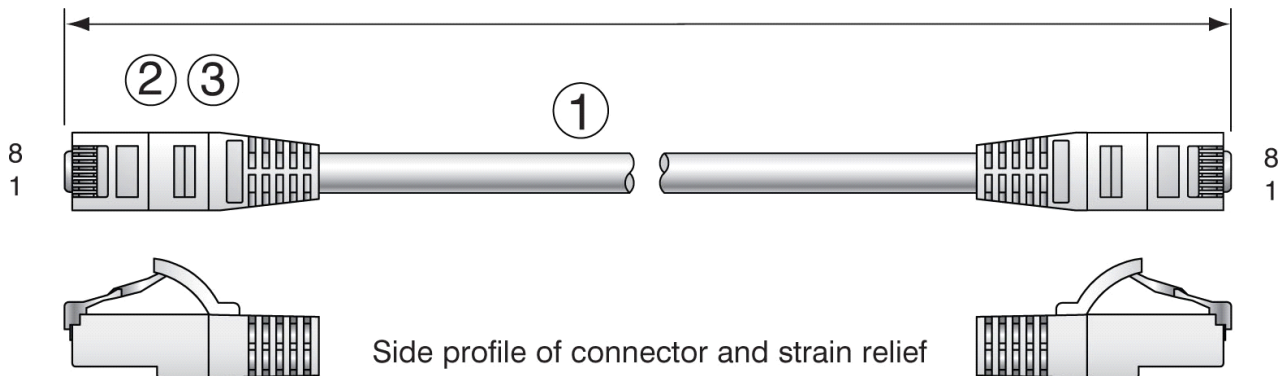
- 25 Year System Warranty
- LSOH Outer Sheath
- Suitable for 10GBASE-T, 10 Gigabit Ethernet Applications
- Specified to 500MHz
- Low Smoke Zero Halogen Outer Sheath
- Lightweight, Compact Design
- Slimline Molded Strain Relief Boot
- Blade style molded strain relief boot with clip protector
- Choice of Length and Colour
- No.2 cabling system by market share, as reported by BSRIA

Product Overview

Excel Category 6A - Augmented Category 6 - cables, and associated connectors, take the performance capabilities of copper infrastructure to new levels. The cable has been designed to exceed the ISO/IEC, TIA and CENELEC for Category 6A/Augmented Category 6 component requirements. This delivers Class EA/ Augmented Category 6 link performance over distances of up to 90 metres which supports the applications including 10GBASE-T, 10 Gigabit Ethernet.

Each Excel Category 6A patch lead consists of 4 twisted pairs of 26AWG stranded copper wires, with a blade booted RJ-45 plug fitted to each end. The slimline blade boot make the patch leads suitable with high density switches and equipment.

Length - As Ordered



- ① 4 Pair unscreened LSOH cable
- ② RJ45 connector with 50 UM gold plated staggered pins
- ③ Slimline blade style strain relief boot

Construction

Conductor	26AWG (7/0.152mm), Stranded Plain Copper
Insulation	Foam Polyethylene
Outer Sheath	Flame resistant, Low Smoke Zero Halogen
Outer Diameter	6mm
Installation Temperature Range	0°c to +60°c
Operating Temperature Range	-10°c to +60°c
Flame Retardance	IEC 60332-1
Smoke Emission	IEC 61034

Performance Overview

Excel Category 6A patch leads are designed, manufactured and tested in accordance with the ISO, EN and TIA standards for Cat 6A. A range of performance characteristics are tested up to 500MHz including return loss, attenuation and near and far end crosstalk (NEXT and FEXT) for which both worst case and power sum tests are completed. This ensures the performance of the installed channels.

Performance / Specification Table

Frequency MHz	Insertion Loss dB	NEXT dB	RL dB	ACR-F dB	PSNEXT dB	PS ACR-F dB
1	4	65	19	63.3	62	60.3
4	4.2	63	19	51.2	60.5	48.2
8	5.8	58.2	19	45.2	55.6	42.2
10	6.5	56.6	19	43.3	54	40.3
16	8.2	53.2	18	39.2	50.6	36.2
20	9.2	51.6	17.5	37.2	49	34.2
25	10.2	50	17	35.3	47.3	32.3
31.25	11.5	48.4	16.5	33.4	45.7	30.4
62.5	16.4	43.4	14	27.3	40.6	24.3
100	20.9	39.9	12	23.3	37.1	20.3
200	30.1	34.8	9	17.2	31.9	14.2
250	33.9	33.1	8	15.3	30.2	12.3
350	40.6	30.6	6.6	12.4	27.6	9.4
500	49.3	27.9	6	9.3	24.8	6.3

Typical Applications

- 10Base-T Ethernet
- 100BASE-TX Fast Ethernet
- 1000BASE-T Gigabit Ethernet
- 10GBASE-T 10 Gigabit Ethernet
- Digital and analogue video
- 1.2/2.4Gbs ATM

Part Number Information

	Grey	Blue	Red	Yellow	Green
Excel Category 6A Unscreened Patch Lead 1 m	100-500	100-509	100-519	100-529	100-539
Excel Category 6A Unscreened Patch Lead 2 m	100-501	100-510	100-520	100-530	100-540
Excel Category 6A Unscreened Patch Lead 3 m	100-502	100-511	100-521	100-531	100-541
Excel Category 6A Unscreened Patch Lead 5 m	100-503	100-512	100-522	100-532	100-542

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

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