

- ✕ 25 Year System Warranty
- ✕ Foil screen design, each pair screened
- ✕ Lightweight, Compact Design
- ✕ LSOH Outer Sheath
- ✕ Slimline Molded Strain Relief Boot
- ✕ EC verified

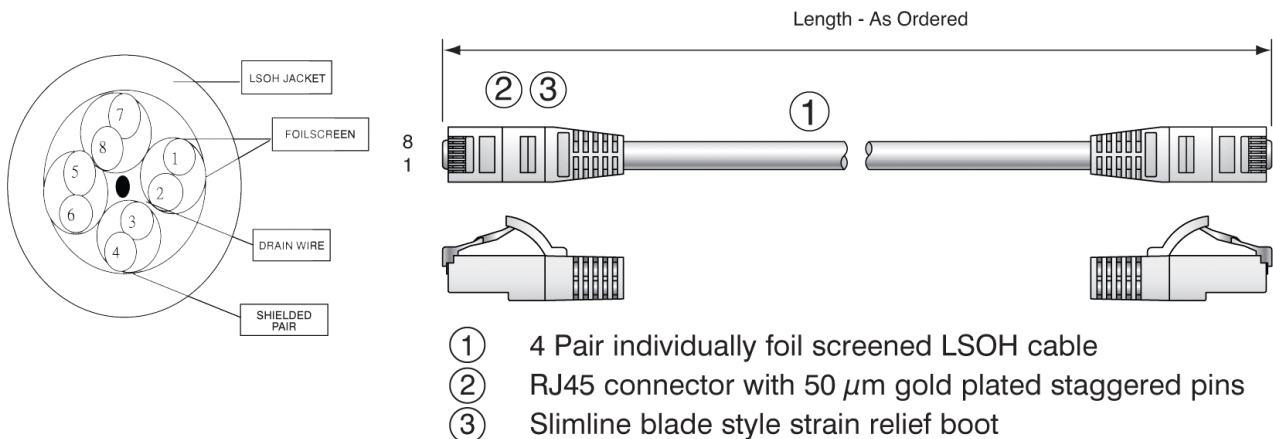
## Features

- 25 Year System Warranty
- Lightweight, Compact Design
- Slimline Molded Strain Relief Boot
- Specified to 500MHz
- No.3 cabling system by market share, as reported by BSRIA
- Low Smoke Zero Halogen Outer Sheath
- Foil screen design, each pair screened
- LSOH Outer Sheath
- EC verified
- Choice of Length and Colour
- Suitable for 10GBASE-T, 10 Gigabit Ethernet Applications

## Product Overview

Excel Category 6<sub>A</sub> - 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 6<sub>A</sub>/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 6<sub>A</sub> patch lead consists of 4 twisted pairs of 26AWG stranded copper wires, an aluminium/ polyester foil tape provides an individual screen for each pair. These pairs are then cabled together, with different lay lengths to ensure optimum performance. Staggered pin RJ45 shielded plugs, terminate the cable, and each lead is fitted with colour coded slimline molded boots, suitable for use in high density router or switch blades.



## Construction

Conductor	26AWG (7/0.152mm), Stranded Plain Copper
Insulation	Foam Polyethylene
Screen applied to each pair	Aluminium Foil Tape
Drain Wire	26AWG (7/0.16mm), Stranded Tinned Copper
Outer Sheath	Flame resistant, Low Smoke Zero Halogen
Outer Diameter	5.7mm +/- 0.2mm
Installation Temperature Range	0 to +60°C
Operating Temperature Range	-10 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 and TIA standards for Cat 6A. The use of foil tape screens in the design of this cable ensure that systems are immune to performance concerns sometimes found in high speed, high frequency copper cable networks. Cables designed with pair screening such as this act against Alien Crosstalk, the inducement of noise from one 4 pair cable to an adjoining cable as well as protecting against signal loss through emissions and enabling immunity from disturbance's which could potentially be received from external sources.

Frequency MHz	Impedance Ω	Insertion Loss 100m Max.	NEXT dB	PSNEXT dB	ACR-F dB	PS ACR-F dB	Return--Loss dB
1	NA	2.2	74.3	62	63.3	60.3	20
4		4.1	65.3	60.5	51.2	48.2	23
8		5.7	60.8	55.6	45.2	42.2	24.5
10		6.4	59.3	54	43.3	40.3	25
16	100+/-15	8.1	56.2	50.6	39.2	36.2	25
20		9.1	54.8	49	37.2	34.2	25
31.25		10.2	53.3	47.3	35.3	32.3	24.2
62.5		11.4	51.9	45.7	33.4	30.4	23.3
100	100+/-22	16.3	47.4	40.6	27.3	24.3	20.7
125		20.8	44.3	37.1	23.3	20.3	19
200		30	39.8	31.9	17.2	14.2	16.4
250	100+/-25	33.8	38.3	30.2	15.3	12.3	15.6
300		37.3	37.1	28.8	13.7	10.7	14.9
400		43.6	35.3	25.8	11.2	8.2	13.8
500		49.3	33.8	23.2	9.3	6.3	13

## Typical Applications

- 1000BASE-T, Gigabit Ethernet
- 10GBASE-T, 10 Gigabit Ethernet
- Digital and analogue video
- 1.2/2.4Gbs ATM

## Part Number Information - Patch Panel Frame

Part No.	Description
100-148	Category 6A Screened F/FTP LSOH Patch Lead, Booted, 1m, Grey
100-152	Category 6A Screened F/FTP LSOH Patch Lead, Booted, 2m, Grey
100-153	Category 6A Screened F/FTP LSOH Patch Lead, Booted, 3m, Grey
100-149	Category 6A Screened F/FTP LSOH Patch Lead, Booted, 4m, Grey
100-154	Category 6A Screened F/FTP LSOH Patch Lead, Booted, 5m, Grey
100-157	Category 6A Screened F/FTP LSOH Patch Lead, Booted, 2m, Blue
100-158	Category 6A Screened F/FTP LSOH Patch Lead, Booted, 3m, Blue
100-162	Category 6A Screened F/FTP LSOH Patch Lead, Booted, 2m, Red
100-163	Category 6A Screened F/FTP LSOH Patch Lead, Booted, 3m, Red
100-165	Category 6A Screened F/FTP LSOH Patch Lead, Booted, 5m, Red
100-167	Category 6A Screened F/FTP LSOH Patch Lead, Booted, 2m, Yellow
100-168	Category 6A Screened F/FTP LSOH Patch Lead, Booted, 3m, Yellow
100-170	Category 6A Screened F/FTP LSOH Patch Lead, Booted, 5m, Yellow
100-171	Category 6A Screened F/FTP LSOH Patch Lead, Booted, 2m, Green
100-172	Category 6A Screened F/FTP LSOH Patch Lead, Booted, 3m, Green
100-174	Category 6A Screened F/FTP LSOH Patch Lead, Booted, 5m, Green

Also available from stock in Red, Blue, Yellow and Green outer sheaths. Alternative lengths and colours are available subject to minimum order quantities and lead times. All cables are booted as standard.

*EC verified. This product has been tested by the Delta EC Cabling Group and complies with the following standards - ISO/IEC 11801:2002 amendment 1 Class EA, ISO/IEC TR 24750, ANSI/TIA/EIA-568-B.2-10. For copies of test certification please contact your local Excel distributor, or visit [www.excel-networking.com](http://www.excel-networking.com) or [www.delta.dk](http://www.delta.dk).*

*Delta technical report N312480, Danak -19J1944 screened 4 connector channel model.*

### 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)

