

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

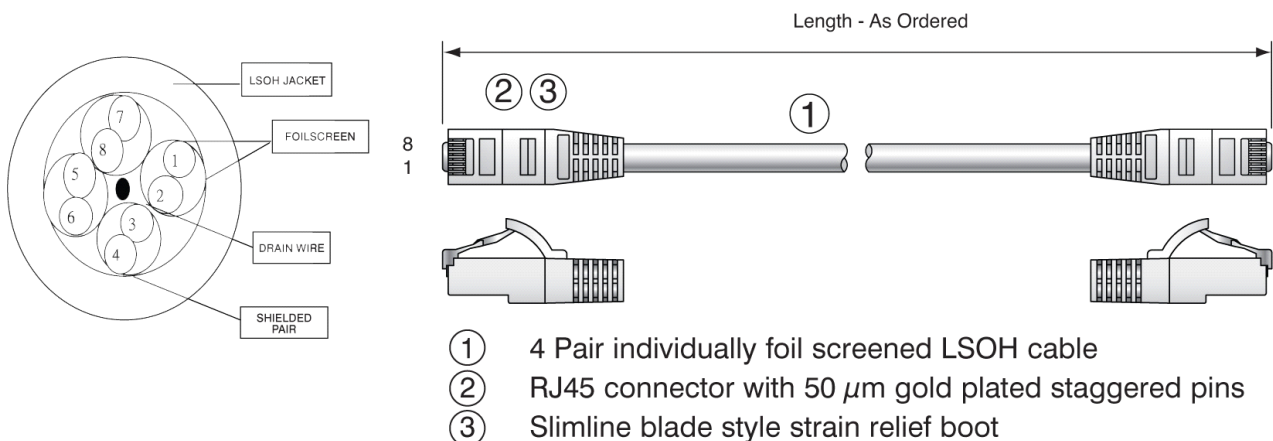
Features

- 25 Year System Warranty
- Lightweight, Compact Design
- Slimline Molded Strain Relief Boot
- Specified to 500MHz
- No.2 cabling system by market share, as reported by BSRIA
- Low Smoke Zero Halogen Outer Sheath
- Foil screen design, each pair screened
- LSOH Outer Sheath
- Component EC verified
- Choice of Length and Colour
- Suitable for 10GBASE-T, 10 Gigabit Ethernet Applications

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 performance over full 100 metres channels 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, 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. The Excel Screened Category 6A Patch Leads are 3rd Party Verified by Delta for Component Compliance



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

Description	Grey	Blue	Red	Yellow	White	Black	Orange	Violet	Pink	Green
Category 6A Screened F/FTP LSOH Patch Lead, Booted,0.5m	100-176	100-220	100-221	100-222	100-224	100-225	100-227	100-228	100-226	100-223
Category 6A Screened F/FTP LSOH Patch Lead, Booted, 1m	100-148	100-159	100-161	100-166	100-238	100-239	100-241	100-242	100-240	100-173
Category 6A Screened F/FTP LSOH Patch Lead, Booted, 2m	100-152	100-157	100-162	100-167	100-244	100-245	100-247	100-248	100-246	100-171
Category 6A Screened F/FTP LSOH Patch Lead, Booted, 3m	100-153	100-158	100-163	100-168	100-250	100-251	100-253	100-254	100-252	100-172
Category 6A Screened F/FTP LSOH Patch Lead, Booted, 4m	100-149									
Category 6A Screened F/FTP LSOH Patch Lead, Booted, 5m	100-154	100-160	100-165	100-170	100-256	100-257	100-259	100-260	100-258	100-174
Category 6A Screened F/FTP LSOH Patch Lead, Booted, 7m	100-178									
Category 6A Screened F/FTP LSOH Patch Lead, Booted, 10m	100-177	100-261	100-262	100-263						100-264
Category 6A Screened F/FTP LSOH Patch Lead, Booted, 15m	100-265	100-266	100-267	100-268						100-269
Category 6A Screened F/FTP LSOH Patch Lead, Booted, 20m	100-543	100-544	100-545	100-546						100-547

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

