Excel Dual Category 6ᴀ Shielded Twisted Pair (F/FTP) Cable – LSOH

excel
without compromise.

CAT6ᴀ

DELTA

- ✕ 25 Year System Warranty
- ✕ Lightweight, Compact Design
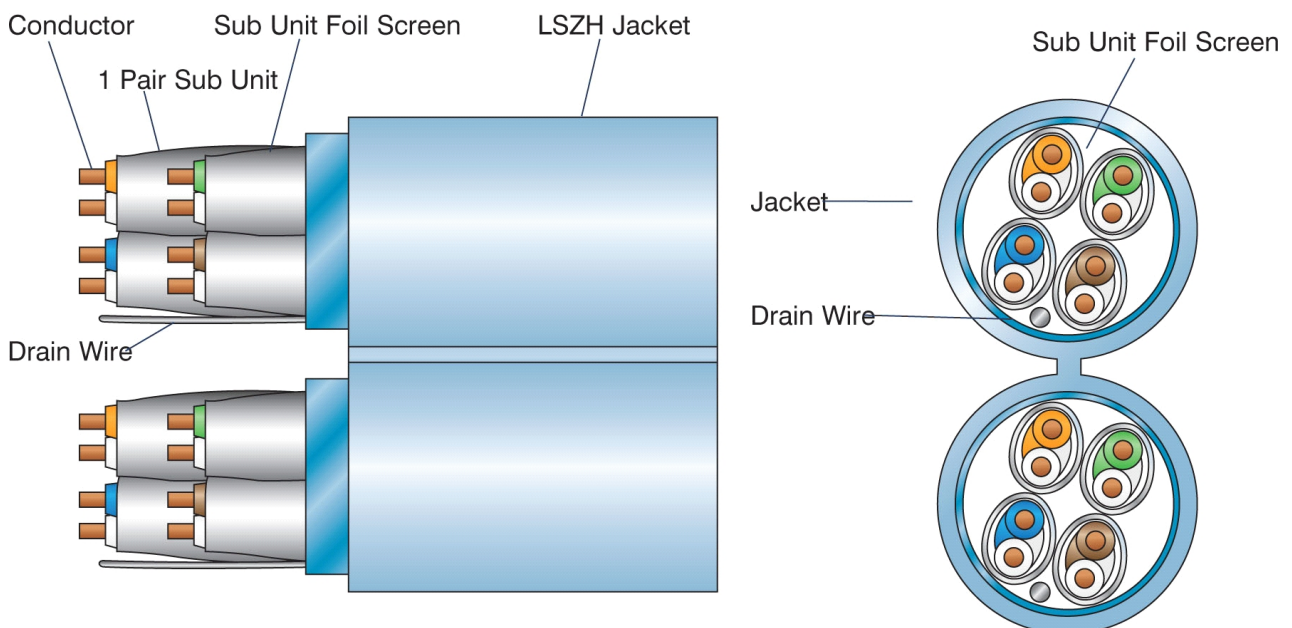- ✕ Category 6A compliant

Features

- 25 Year System Warranty
- Category 6A compliant
- Individual and overall foil screen over each pair
- Suitable for 10GBASE-T, 10 Gigabit Ethernet Applications
- Lightweight, Compact Design
- Specified to 500MHz
- Low Smoke Zero Halogen Outer Sheath
- 2 X 4 pair dual construction

Product Overview

Excel Category 6ᴀ – Augmented Category 6 – cables, and associated connectors, take the performance capabilities of copper infrastructure to new levels. Designed to the current ISO and EIA/TIA standards for Class EA augmented Category 6ᴀ performance these products are intended to deliver reliable, high network performance over link distances of upto 90 metres, including support of emerging applications such as 10GBase-T, 10 Gigabit Ethernet.

In this dual design each cable leg consists of 4 pairs individually wrapped in a covering of high quality, strong, aluminium/polyester foil tape providing an individual screen for each pair. These sub units are then cabled together, with the pairs set to different lay lengths to ensure optimum performance.

Excel Category 6ᴀ cables are jacketed in an Ice Blue low smoke zero halogen (LSZH) compound compliant withflame retardant standards as defined in IEC 60332-1, and smoke emission standards IEC61034. Supplied on 500metre plywood drums, each cable has a print legend identifying the specification, part code and sequential metre marking which counts down from 500 metres to 1 metre, on each drum to reduce waste.

Conductor   Sub Unit Foil Screen   LSZH Jacket
1 Pair Sub Unit
Drain Wire
Sub Unit Foil Screen
Jacket
Drain Wire

Construction

Conductor	23AWG, Solid Plain Copper
Insulation	Polyethylene
Screen applied to 1 pair unit	Aluminium Foil Tape
Outer Sheath	Flame resistant, Low Smoke Zero Halogen
Outer Diameter	7.3mm x 15.5mm
Installation Temperature Range	0˚c to +50˚c
Operating Temperature Range	-10˚c to +60˚c
Minimum Bend Radius during installation	8 x cable diameter
Minimum Bend Radius during operation	8 x cable diameter
Flame Retardance	IEC 60332-1
Smoke Emission	IEC 61034
Average weight per metre	0.06 Kg/m
Weight	91 Kg

Performance Overview

Excel Category 6$_A$ cables are designed, manufactured and tested in accordance with the draft ISO and EIA/TIA standards for augmented Category 6. As such they are suitable for the support of high speed enterprise LAN and datacenter applications such as 10 Gigabit Ethernet.

The use of high quality foil tape screens in the design of this cable ensure that correctly installed systems are immune to performance concerns sometimes found in high speed, high frequency copper cable networks.

Performance / Specification Table

Frequency MHz.	Ins. Loss (dB/100m)	Return Loss (dB)	Pair to Pair NEXT (dB/100m)	ACR-F	Power Sum NEXT (dB/100m)	ELFEXT	NEXT	ELFEXT	Po. Delay (ns/100)
	Max.	Min.	Min.	Min.	Min.	Min.	Min.	Min.	Max.
1	2.1	2.0	76.3	71.8	74.3	69.8	75.0	75.0	570
10	6	25	61.3	51.8	59.3	49.8	72.5	58.2	538
16	7.6	25	58.2	47.7	56.2	45.7	70.5	54.1	536
20	8.5	25	56.8	45.8	54.8	43.8	69.5	52.2	536
31.25	10.8	23.6	53.9	41.9	51.9	39.9	67.6	48.3	535
62.5	15.5	21.5	49.4	35.9	47.4	33.9	64.5	42.3	535
100	19.9	20.1	46.3	31.8	44.3	29.8	62.5	38.2	534
200	29.2	18	41.8	25.8	39.8	23.8	58	32.2	534
250	33	17.3	40.3	23.8	38.3	21.8	56.5	30.2	534
300	36.6	16.8	39.1	22.3	37.1	20.3	55.3	28.7	534
400	43.2	15.9	37.3	19.8	35.3	17.8	53.5	26.2	534
450	46.3	15.5	36.5	18.7	34.5	16.7	52.7	25.1	534
500	49.2	15.2	35.8	17.8	33.8	15.8	52	24.2	534

Nominal Velocity of Propagation (NVP) 76%

Typical Applications

- IEEE802.3 1000 Base-TX Gigabit Ethenet ▪ IEEE802.3an 10G Base-T Gigabit Ethernet ▪ 1.2/2.4Gbs ATM
- Digital and analogue video

Part Number Information

Part No.	Description
100-195	Dual Category 6A Screened (F/FTP) Cable LSOH Ice Blue 500m Reel

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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