

X 25 Year System Warranty

X Lightweight, Compact Design

X Category 6A compliant

X CPR compliant to Cca s1a,d1,a1

Features

- 25 Year System Warranty
- Category 6A compliant
- Suitable for 10GBASE-T, 10 Gigabit Ethernet Applications
- Lightweight, Compact Design
- Specified to 500MHz
- "S" foil screen
- Low Smoke Zero Halogen Outer

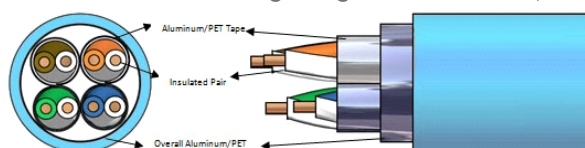
Product Overview

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 cable consists of two sets of two pairs wrapped together in an "S" configuration with high quality, strong, aluminium/polyester foil tape providing screening for each pair. The "S" Foil configuration ensures separation of the pairs that ensures the performance. These are then wrapped in another, overall foil. By using two sets of two pairs has resulted in a reduced diameter and weight cable. The smaller cable diameter has reduced the cable cross-sectional area by 19.7%. This design change has been instigated to benefit the installer and end user in many direct and indirect ways. Reducing the size and weight means the cable occupies less space in the containment which in turn improves airflow in under floor installations. Less weight means that the containment can be of lighter construction. It also means that handling the cable on site is easier. Smaller diameter cable means that there is waste packaging to dispose of. The individual pairs are set to different lay lengths to ensure optimum performance.

Excel Category 6A cables are jacketed in an Ice Blue low smoke zero halogen (LSOH) compound. Supplied on 500 metre 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.

The print legend on the cable now also includes information regarding the DOP Number, Test and classification of the cable for traceability



Typical Applications

- 1000BASE-T Gigabit Ethernet
- 10GBASE-T 10 Gigabit Ethernet
- 1.2/2.4Gbps ATM
- Digital and analogue video
- IEEE 802.3af Power over Ethernet (PoE)
- IEEE 802.3at Power over Ethernet Plus (PoE+)

Cable Specifications

Conductor	23AWG, Solid Plain Copper
Insulation	Foamed Polyethylene
Screen applied to 2 pairs unit	Aluminium Foil Tape - wrapped in an "S" shape around the 2 pairs
Overall Screen	Aluminium Foil Tape
Outer Sheath	Flame resistant, Low Smoke Zero Halogen
Outer Diameter	6.90 mm +/- 0.3mm
Installation Temperature Range	0°C to +60°C
Operating Temperature Range	-20°C to +60°C
Minimum Bend Radius	60mm (during installation)
Minimum Bend Radius	31mm (during operation)
Standard of flame retardancy	IEC 60332-1-[1,2] (2004-07), IEC 60754-(1,2)
CPR Euroclass	EN 50575:2014 +A1:2016 Cca s1b,d1,a1
Cable jacket tested to	IEC 62321, US EPA 3540C
Smoke Emission	EN 50399, EN61034-2
Average weight per metre	0.06 Kg/m
Drum Weight	30.88 Kg
Drum Dimensions	380mm Diameter x 484mm Width
Drum Size	500m
NVP	76%
Construction	IEC 61156-5 ed2.0 Augmented Category 6A

Freq. (MHz)	Ins. Loss (dB/100m) Max.	RL (dB) Min.	NEXT (dB/100m) Min.	ACR-F (dB/100m) Min.	PS NEXT (dB/100m) Min.	PS ACR-F (dB/100m) Min.	Delay Skew (ns/100m) Max.	Prop. Delay (ns/100m) Max.
1	-	20.0	-	-	-	-	-	-
4	3.8	23.0	66.3	56.0	63.3	53.0	45	552.0
10	5.9	25.0	60.3	48.0	57.3	45.0	45	545.4
16	7.5	25.0	57.2	43.9	54.2	40.9	45	543.0
20	8.4	25.0	55.8	42.0	52.8	39.0	45	542.0
31.25	10.5	24.3	52.9	38.1	49.9	35.1	45	540.4
62.5	15	23.6	48.4	32.1	45.4	29.1	45	538.6
100	19.1	21.5	45.3	28.0	42.3	25.0	45	537.6
200	27.6	18.0	40.8	22.2	37.8	19.0	45	536.5
250	31.1	17.3	39.3	20.0	36.6	17.0	45	536.3
300	34.3	17.3	38.1	18.5	35.1	15.5	45	536.1
400	40.1	17.3	36.3	16.0	33.3	13.0	45	535.8
500	45.3	17.3	34.8	14.0	31.8	11.0	45	535.6

Nominal velocity of propagation (NVP 76%) Note 1: All tests include 401 points swept frequency measurements.
Note 2: All electrical characteristics are given at 20°C

Part Number Information

Part No.	Description
170-196	Category 6A (F/FTP) S-Foil Cable LSOH - 500m - Ice Blue

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

