

✕ Cat6A solid copper cable

✕ U/FTP foil screened pairs

✕ Outer sheath colour aqua

✕ Euroclass Dca-s2,d1,a1

✕ 25 Year system warranty

## Product Overview

Excel solid Cat6A cable screened U/FTP LSOH is manufactured to meet and exceed the ISO, CENELEC and TIA standards and supplied in 305 m box. Excel Cat6A screened (U/FTP) cable takes the performance capabilities of copper infrastructure to new levels.

This delivers Class EA/Augmented Category 6 link performance over distances of up to 90m which supports the applications including 10GBASE-T, 10 Gigabit Ethernet.

Each cable consists of 4 pairs individually wrapped in high quality, strong, aluminium/polyester foil tape providing screening for each pair.

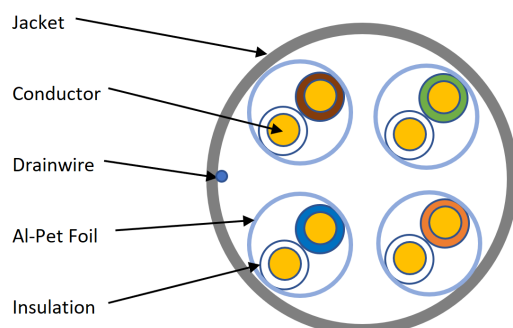
The foil configuration ensures separation of the pairs that ensures the performance. The individual pairs are set to different lay lengths to ensure optimum performance.

## Product Specifications

| Feature                       | Values            |
|-------------------------------|-------------------|
| Conductor surface             | Bare              |
| AWG size                      | 23                |
| Conductor category            | Class 1 = solid   |
| Total number of cores         | 8                 |
| Stranding element             | Pairs             |
| Specification core insulation | Polyethylene (PE) |
| Core identification           | Colour            |
| Overall screening             | None              |
| Conductor screening           | Foil              |

|   |                                 |
|---|---------------------------------|
| Outer sheath material   | Copolymer, thermoplastic (LSOH) |
| Outer sheath colour   | Aqua                            |
| Flame retardant according to IEC 60332-1-2                    | yes                             |
| Reaction-to-fire class according to EN 13501-6                | Dca                             |
| Smoke development class according to EN 13501-6               | s2                              |
| Euro class flaming droplets/particles according to EN 13501-6 | d1                              |
| Euro class acidity according to EN 13501-6                    | a1                              |
| Outer diameter approx.  | 7.2 mm                          |
| Installation Temperature Range                                | 0...60 °C                       |
| Operating Temperature Range                                   | -20...60 °C                     |
| Category  | 6A (IEC)                        |
| NVP value   | 75 %                            |

### Cross-section diagram



### Cable specifications

| Features                | Values              |
|-------------------------|---------------------|
| Dielectric strength     | 2.5KV DC for 2s     |
| Impedance ( $\Omega$ )  | 1-100 MHz<br>100±15 |
| 100-250 MHz             | 100±20              |
| 250-500 MHz             | 100±25              |
| Maximum pulling load    | 100 N               |
| MBR during installation | 60 mm               |
| MBR installed           | 50 mm               |

## Standards

| Applicable standard                        | Subject  |
|--|--|
| ISO/IEC 11801-1:2017                       | Information technology - Generic cabling for customer premises: Part 1 General Requirements  |
| IEC 61156-5:2020                           | Multicore and symmetrical pair/quad cables for digital communications - Part 5: Symmetrical pair/quad cables with transmission characteristics up to 1 000 MHz - Horizontal floor wiring - Sectional specification |
| EN 50173-1:2018                            | Information technology. Generic cabling systems - General requirements   |
| EN 50173-2:2018                            | Information technology. Generic cabling systems - Office premises  |
| BS EN 50288-3-1:2013                       | Multi-element metallic cables used in analogue and digital communication and control. Sectional specification for unscreened cables characterised up to 250 MHz  |
| EN 50399:2011+A1:2016                      | Common test methods for cables under fire conditions. Heat release and smoke production measurement on cables during flame spread test. Test apparatus, procedures, results  |
| IEC 60332-1-2:2004 + A12:2020              | Tests on electric and optical fibre cables under fire conditions. Test for vertical flame propagation for a single insulated wire or cable. Procedure for 1 kW pre-mixed flame                                     |
| ANSI/TIA 568-D:2015                        | Balanced Twisted-Pair Telecommunications Cabling and Components Standards  |
| IEC 60754-2:2014                           | Test on gases evolved during combustion of materials from cables - Part 2: Determination of acidity (by pH measurement) and conductivity   |
| IEC 61034-2:2005+A2:2020                   | Measurement of smoke density of cables burning under defined conditions - Part 2: Test procedure and requirements  |
| EN 50575:2014 + A1:2016                    | Power, control and communication cables — Cables for general applications in construction works subject to reaction to fire requirements   |
| IEEE 802.3bt (Type 4)                      | Compliant to IEEE 802.3bt (Type 4)   |
| RoHS-II/-III (2011/65/EU & 2015/863): 2023 | Our products, demonstrate full adherence to the regulatory stipulations of the EU Directive 2011/65/EU (RoHS-II) and its corresponding delegated directive 2015/863 (RoHS-III).                                    |
| WFD: 2023                                  | Compliant to Waste Framework Directive   |
| SCIP: 2023                                 | Compliant - Does Not Contain Substances of Concern In articles as such or in complex objects (Products)  |
| POPs (EU) No 2019/1021                     | EU Regulation for the restriction of Persistent Organic  |

Pollutants.

### Part Number Table

| Part Number     | Description   |
|-----------------|---|
| 100-990         | Excel Solid Cat6A Cable U/FTP LSOH CPR Euroclass Dca 500 m Reel Aqua  |
| 100-990-305M    | Excel Solid Cat6A Cable U/FTP LSOH CPR Euroclass Dca 305 m Box Aqua   |
| 100-990-ECA     | Excel Solid Cat6A Cable U/FTP LSOH CPR Euroclass Eca 305 m Box Aqua   |
| 100-990-WT-305M | Excel Solid Cat6A Cable U/FTP LSOH CPR Euroclass Dca 305 m Box White  |
| 100-992         | Excel Solid Cat6A Cable U/FTP LSOH CPR Euroclass Dca 500 m Reel White |
| 100-993         | Excel Solid Cat6A Cable U/FTP PE External Fca 500 m Reel Black        |

Excel is a world class premium performing end to end infrastructure solution designed,  
Manufactured, supported and delivered without compromise.

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