

- ✗ Category 7A performance to 1000 MHz
- ✗ Individual foil pairs with overall braid screen
- ✗ High performance design
- ✗ 25 year system warranty
- ✗ Sequential metre markings
- ✗ Euroclass: B2ca-s1a,d1,a1
- ✗ CIBSE TM65 Embodied Carbon: 237.855 kg CO2e

## Product Overview

The Excel Category 7A screened S/FTP LS0H cable is designed and manufactured to meet and exceed the ISO, CENELEC and TIA standards. This delivers Class FA link and channel performance supporting all applications detailed and proposed within the standards. This superior performance cable is ETL component verified.

Each cable 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, an overall braid screen is applied to provide further immunity to outside noise and to mitigate any risk of alien cross talk.

The print legend on the cable now includes information regarding the DOP number, test and classification of the cable for traceability.

## Product Specifications

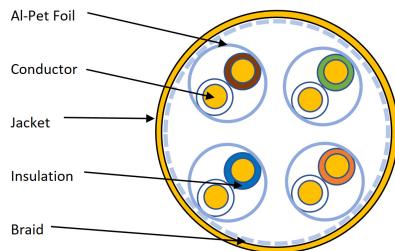
| Feature               | Values          |
|-----------------------|-----------------|
| Conductor surface     | Bare            |
| AWG size              | 23              |
| Conductor category    | Class 1 = solid |
| Total number of cores | 8               |
| Stranding element     | Pairs           |

|   |                                 |
|---|---------------------------------|
| Specification core insulation                                 | Polyethylene (PE)               |
| Core identification   | Colour                          |
| Overall screening   | Braiding                        |
| Conductor screening   | Foil                            |
| Outer sheath material   | Copolymer, thermoplastic (LSOH) |
| Outer sheath colour   | Yellow                          |
| Flame retardant according to IEC 60332-1-2                    | yes                             |
| Reaction-to-fire class according to EN 13501-6                | B2ca                            |
| Smoke development class according to EN 13501-6               | s1a                             |
| Euro class flaming droplets/particles according to EN 13501-6 | d1                              |
| Euro class acidity according to EN 13501-6                    | a1                              |
| Outer diameter approx.  | 7.8 mm                          |
| Installation Temperature Range                                | 0...60 °C                       |
| Operating Temperature Range                                   | -20...60 °C                     |
| Category  | 7A (IEC)                        |
| NVP value   | 76 %                            |

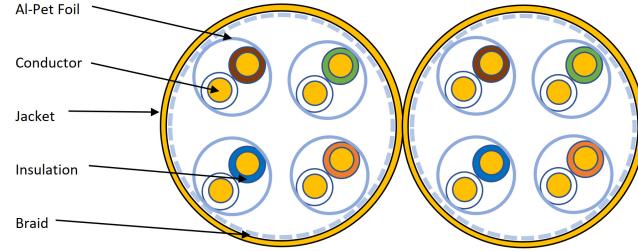
### Cable specifications

| Features                | Values         |
|-------------------------|----------------|
| Dielectric strength     | 2.5 kV for 2 s |
| Maximum pulling load    | 100 N          |
| MBR during installation | 8x cable OD    |
| MBR installed           | 4x cable OD    |

**Cross-section diagram**



**Single cable**



**Dual cable**

**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 1000 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   |
| EN 50288-9-1:2012             | Multi-element metallic cables used in analogue and digital communication and control. Sectional specification for screened cables characterised up to 1000 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)   |

|  |   |
|--|---|
| IEC 61034-2:2005+A2:2020                   | measurement) and conductivity   |
| EN 50575:2014 + A1:2016                    | Measurement of smoke density of cables burning under defined conditions – Part 2: Test procedure and requirements   |
| RoHS-II/-III (2011/65/EU & 2015/863): 2023 | Power, control and communication cables — Cables for general applications in construction works subject to reaction to fire requirements  |
| WFD: 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). |
| SCIP: 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   |
|-------------|---|
| 100-910     | Excel Solid Cat7A Cable S/FTP LSOH Dca 500 m Reel Yellow  |
| 190-910     | Excel Solid Cat7A Cable S/FTP LSOH B2ca 500 m Reel Yellow |

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