

✕ Category 7A Performance to 1000 MHz

✕ 23 AWG Conductors

✕ Individual foil pairs with overall braid screen

✕ 3rd Party Delta Verified Component Compliance

✕ 25 Year System Warranty

## Features

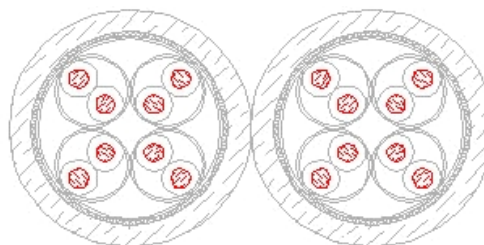
- Low Smoke Zero Halogen Jacket
- High performance design
- Individual foil pairs with overall braid screen
- 25 Year System Warranty
- Category 7A Performance to 1000 MHz
- 23 AWG Conductors
- 3rd Party Delta Verified Component Compliance
- No.2 cabling system by market share, as reported by BSRIA

## Product Overview

The Excel Dual Category 7A Screened S/FTP LSOH 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. Two cables are formed into a Dual configuration for ease of installation without hindering performance.

Excel Category 7A cables are jacketed in a yellow low smoke zero halogen (LSOH) flame retardant compound. Supplied on 500 metre plywood drums, each cable has a print legend identifying the specification, part code and sequential.



## Impedance

| Frequency    | Impedance  |
|--------------|------------|
| 1-250 MHz    | 100 ± 15 Ω |
| 250-500 MHz  | 100 ± 20 Ω |
| 500-1000 MHz | 100 ± 25 Ω |

## Performance

| Frequency<br>(MHz) | Longitudinal Attenuation<br>(dB/100m)<br>Max. | NEXT<br>(dB/100m)<br>Min. | ACR-F<br>(dB/100m)<br>Min. | PSNEXT<br>(dB/100m)<br>Min. | PSExNEXT<br>(dB/100m)<br>Min. | PSExACR-F<br>(dB/100m)<br>Min. | Return Loss<br>(dB/100m)<br>Min. |
|--------------------|---|---------------------------|----------------------------|-----------------------------|-------------------------------|--------------------------------|----------------------------------|
| 1                  | 2.1   | 78                        | 78                         | 75                          | 67                            | 67                             |                                  |
| 4                  | 3.7   | 78                        | 78                         | 75                          | 67                            | 67                             | 23                               |
| 10                 | 5.8   | 78                        | 78                         | 75                          | 67                            | 67                             | 25                               |
| 62.5               | 14.6  | 78                        | 69.4                       | 75                          | 67                            | 57.3                           | 21.5                             |
| 100                | 18.5  | 75.4                      | 65.3                       | 72.4                        | 67                            | 53.2                           | 20.1                             |
| 155                | 23.2  | 72.5                      | 61.5                       | 69.5                        | 67                            | 49.4                           | 18.8                             |
| 200                | 26.5  | 70.9                      | 59.3                       | 67.9                        | 67                            | 47.2                           | 18                               |
| 300                | 32.7  | 68.2                      | 55.8                       | 65.2                        | 67                            | 43.7                           | 17.3                             |
| 400                | 38  | 66.4                      | 53.3                       | 63.4                        | 67                            | 41.2                           | 17.3                             |
| 600                | 47.1  | 63.7                      | 49.7                       | 60.7                        | 65.8                          | 37.6                           | 17.3                             |
| 800                | 54.9  | 61.9                      | 47.2                       | 58.9                        | 64                            | 35.1                           | 16.1                             |
| 1000               | 61.9  | 60.4                      | 45.3                       | 57.4                        | 62.5                          | 33.2                           | 15.1                             |

## Construction

| Item                                     | Value                         |
|--|-------------------------------|
| Conductor material                       | Solid bare copper             |
| Conductor diameter                       | 0.58 ± 0.01 mm (23 AWG)       |
| Insulation                               | Foam Skin HDPE material       |
| Insulation thickness                     | 0.37 mm                       |
| Insulation diameter                      | 1.38 ± 0.05 mm                |
| Pair foil                                | Aluminium - Pet ≥ 115 %       |
| Braid material                           | Tinned copper                 |
| Braid construction                       | T0.10 ± 0.008 mm x 8 x 6      |
| Braid coverage                           | 30 %                          |
| Jacket material                          | Low Smoke Zero Halogen (LSOH) |
| Jacket thickness                         | 0.6 mm                        |
| Jacket colour                            | Yellow (RAL 1021)             |
| Cable diameter                           | 2 x 7.8 ± 0.3 mm              |
| Maximum conductor DC resistance at 20 °C | 72.8 Ω/km                     |
| Nominal velocity of propagation (nvp)    | 70%                           |
| Rated temperature                        | 60 °C                         |
| Flamability resistance                   | IEC 60332-1                   |
| Halogen acidity                          | IEC 60754-1,2                 |
| Smoke performance                        | IEC 61034-1,2                 |

## Part Number Information

| Part No. | Description  |
|----------|--|
| 100-911  | Dual Category 7A Screened S/FTP Cable - 1000 MHz, Yellow |

## 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](mailto:sales@excel-networking.com)

