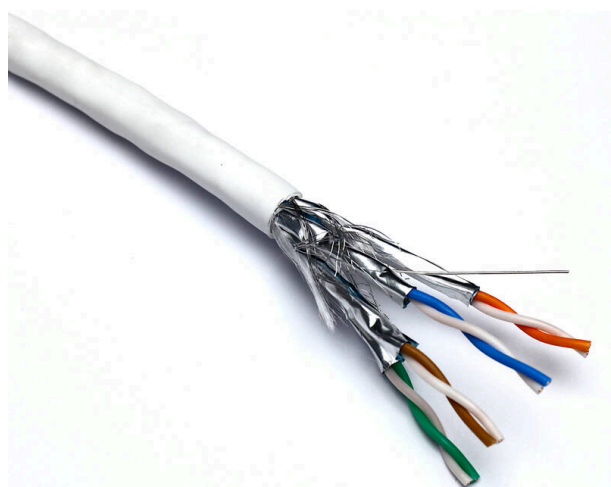


Excel Solid Cat6A Cable S/FTP LSOH CPR Euroclass Dca 500 m Reel White

Item Code: 100-914

excel
without compromise.



✕ Cat6A solid copper cable

✕ S/FTP overall screening and foil screen per pair

✕ Supports PoE++ Type 4 (90 W)

✕ Outer sheath colour: White

✕ Reaction-to-fire class according to EN 13501-6: Dca

✕ Smoke development class according to EN 13501-6: s2

✕ CIBSE TM65 Embodied Carbon: 214.890 kg CO2e

Product Overview

Excel screened Cat6A cable S/FTP LSOH with individual foil wrapped pairs and overall foil wrap and braided screening supplied on 500 m reel. Excel Cat6A fully screened (S/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 90 m which supports the applications including 10GBASE-T, 10 Gigabit Ethernet.

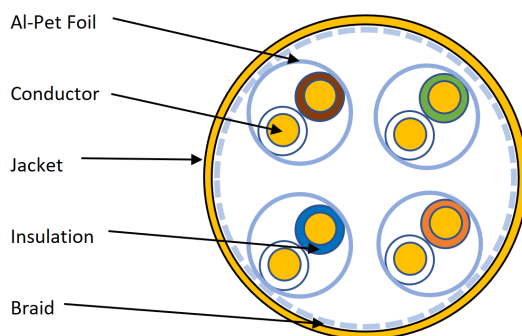
Each cable consists of four pairs which are individually wrapped with a high quality, strong, aluminium/polyester foil tape providing screening for each pair. The individual pairs are set to different lay lengths to ensure optimum performance. These are then wrapped in another, overall foil and an overall braid screening. These cables are also suitable for PoE, PoE+ and PoE++ applications including type 3 and type 4, which enables delivery of 90 W over the four pairs.

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 | White |
| 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 | d2 |
| Euro class acidity according to EN 13501-6 | a2 |
| Outer diameter approx. | 7.5 mm |
| Operating Temperature Range | -20...70 °C |
| Category | 6A (IEC) |
| NVP value | 74 % |

Cross-section diagram



Cable specifications

| Features | Values |
|-------------------------|----------------|
| Dielectric strength | 2.5 kV for 2s |
| Maximum pulling load | 100 N/10.2 KgF |
| MBR during installation | 8x cable OD |
| MBR installed | 4x cable OD |

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 |

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Pollutants.

Part Number Table

| Part Number | Description |
|-------------|--|
| 100-914 | Excel Solid Cat6A Cable S/FTP LSOH CPR Euroclass Dca 500 m Reel White |
| 100-914-GRY | Excel Solid Cat6A Cable S/FTP LSOH CPR Euroclass Dca 500 m Reel Grey |
| 100-914-ORG | Excel Solid Cat6A Cable S/FTP LSOH CPR Euroclass Dca 500 m Reel Orange |
| 190-914 | Excel Solid Cat6A Cable S/FTP LSOH CPR Euroclass B2ca 500 m Reel White |
| 190-914-BK | Excel Solid Cat6A Cable S/FTP LSOH CPR Euroclass B2ca 500 m Reel Black |
| 190-914-GY | Excel Solid Cat6A Cable S/FTP LSOH CPR Euroclass B2ca 500 m Reel Grey |
| 190-914-RD | Excel Solid Cat6A Cable S/FTP LSOH CPR Euroclass B2ca 500 m Reel Red |

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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