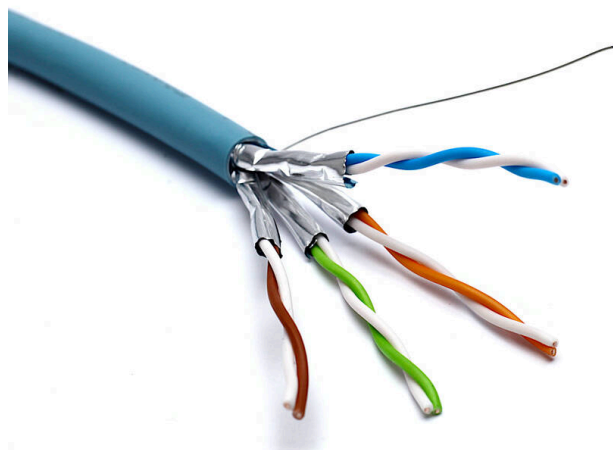


Excel Solid Cat6A Cable U/FTP LSOH CPR Euroclass Dca 500 m Reel Aqua

Item Code: 100-990

excel
without compromise.



Cat6A solid copper cable

U/FTP foil screened pairs

Outer sheath colour aqua

Euroclass Dca-s2,d1,a1

25 Year system warranty

CIBSE TM65 Embodied Carbon: 234.461 kg CO2e

Product Overview

Excel solid Cat6A cable screened U/FTP LSOH is manufactured to meet and exceed the ISO, CENELEC and TIA standards and supplied on 500m Reels. 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.

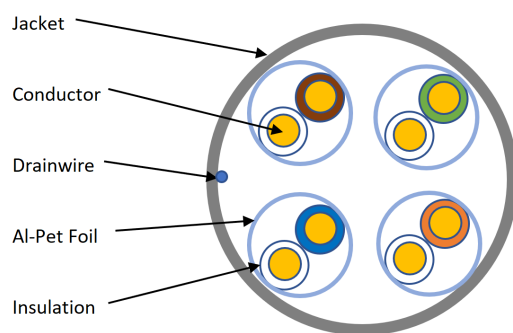
The foil configuration ensures separation of the pairs that ensures the performance. The individual pairs are set to different lay lengths to ensure optimum performance.

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...70 °C |
| Category | 6A (IEC) |
| NVP value | 75 % |

Cross-section diagram



Cable specifications

| Features | Values | |
|-------------------------|-------------|--------|
| Impedance (Ω) | 1-100 MHz | 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) |
| Directive 2011/65/EU (RoHS II) | Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment — compliant. Applies within EU member states). |
| Directive (EU) 2015/863 (RoHS III) | Amending Directive 2011/65/EU to add four phthalates (DEHP, BBP, DBP, DIBP) to Annex II — compliant. |
| Directive 2008/98/EC (WFD) | Waste Framework Directive — compliant. Implemented in the UK through the Waste (England and Wales) Regulations 2011 (SI 2011 No. 988). |

ECHA SCIP Database

Compliant; product does not contain SVHCs (Substances of Very High Concern) as defined under REACH Article 33(1). Submission obligations met under EU REACH and UK REACH.

Regulation (EU) 2019/1021 (POPs)

EU Regulation on Persistent Organic Pollutants — compliant. For Great Britain, compliance is aligned with the Persistent Organic Pollutants (Amendment) (EU Exit) Regulations 2020 (SI 2020 No. 1355).

UK SI 2012 No. 3032

The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (UK RoHS) — compliant for Great Britain. Retained EU law, as amended by the Product Safety and Metrology (Amendment etc.) (EU Exit) Regulations 2019.

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.

Contact us at sales@excel-networking.com