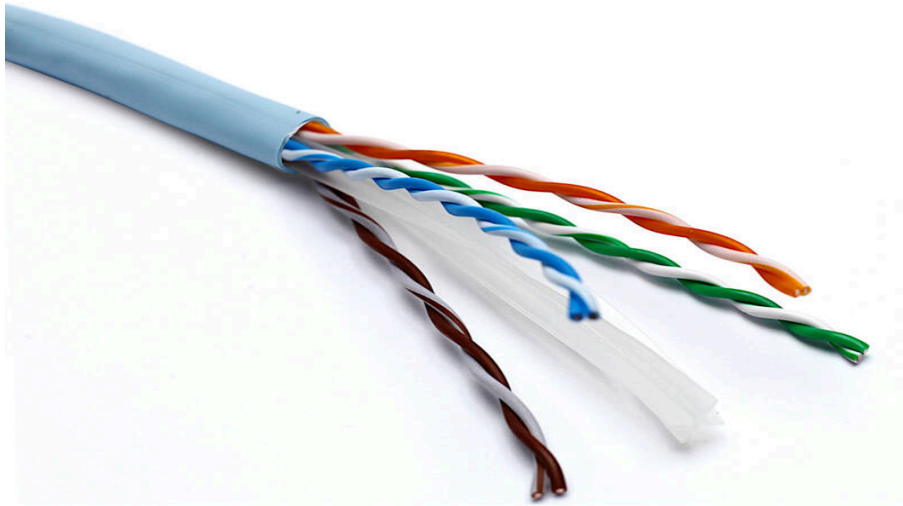


# Excel Solid Cat6a Cable U/UTP LSOH CPR Dca 500m Reel Ice Blue

excel  
without compromise.

Part Code: 100-189

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## Main Features

- / Cat6a Solid Copper Cable
- / U/UTP No Overall Screening
- / No Conductor Screening
- / Outer sheath colour Ice Blue
- / Reaction-to-fire class according to EN 13501-6: Dca
- / Smoke development class according to EN 13501-6: s2

## Product Overview

Excel solid Cat6a cable U/UTP LSOH CPR Euroclass Dca designed and manufactured to meet and exceed the ISO, CENELEC and TIA standards and supplied on 500m Reels. Excel Cat 6A U/UTP Cable takes the performance capabilities of copper infrastructure to new levels.

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

Each cable consists of 8 colour coded solid copper conductors twisted together to form four pairs.

These are then formed around a central X-shaped polyethylene centre with the whole cable produced in a LSOH sheath.

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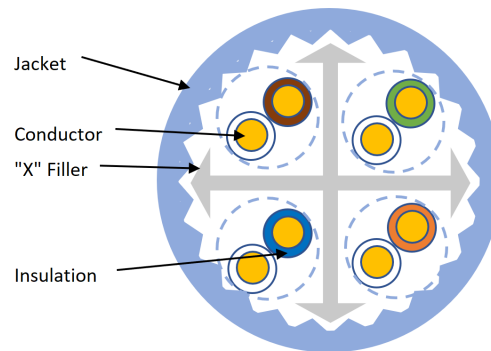
## Product Specifications

| Feature   | Values                                 |
|---|--|
| Conductor surface   | <b>Bare</b>                            |
| Diameter of conductor   | <b>0.56 mm</b>                         |
| AWG size  | <b>23</b>                              |
| Conductor category  | <b>Class 1 = solid</b>                 |
| Total number of cores   | <b>8</b>                               |
| Stranding element   | <b>Pairs</b>                           |
| Specification core insulation                                 | <b>Polyethylene (PE)</b>               |
| Core identification   | <b>Colour</b>                          |
| Overall screening   | <b>None</b>                            |
| Conductor screening   | <b>None</b>                            |
| Outer sheath material   | <b>Copolymer, thermoplastic (LSOH)</b> |
| Outer sheath colour   | <b>Ice Blue</b>                        |
| Flame retardant according to IEC 60332-1-2                    | <b>yes</b>                             |
| Reaction-to-fire class according to EN 13501-6                | <b>Dca</b>                             |
| Smoke development class according to EN 13501-6               | <b>s2</b>                              |
| Euro class flaming droplets/particles according to EN 13501-6 | <b>d2</b>                              |
| Euro class acidity according to EN 13501-6                    | <b>a1</b>                              |
| Outer diameter approx.  | <b>8.3 mm</b>                          |
| Installation Temperature Range                                | <b>-10...60 °C</b>                     |
| Operating Temperature Range                                   | <b>-10...60 °C</b>                     |
| Category  | <b>6A (IEC)</b>                        |
| NVP value   | <b>66.7 %</b>                          |

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### Cross-section diagram



### Cable specifications

| Features                | Values      |
|-------------------------|-------------|
| Maximum pulling load    | 100 N       |
| 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 |

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|                                    |  |
|------------------------------------|--|
| 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 unshielded 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                                       |
| 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   |

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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 Code Table

| Part Code | Description   |
|-----------|---|
| 100-189   | Excel Solid Cat6a Cable U/UTP LSOH CPR Dca 500m Reel Ice Blue |