# Excel Solid Cat6 Cable U/UTP LSOH CPR Euroclass Dca 305 m Box Red

**Part Code: 100-097**

sales@excel-networking.com
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CIBSE TM65 Embodied Carbon: 82.909 kg CO2e



## Main Features

- Cat6 solid copper cable
- No conductor screening
- Reaction-to-fire class according to EN 13501-6: Dca
- U/UTP no overall screening
- Outer sheath colour: red
- Smoke development class according to EN 13501-6: s2

## Product Overview

Excel solid Cat6 ethernet cable U/UTP LSOH CPR Euroclass Dca manufactured and tested to the TIA/EIA 568□B.2□1, EN50173□1 and ISO/IEC 11801 Cat6 specifications, 305 m or 500 m. 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.

## Product Specifications



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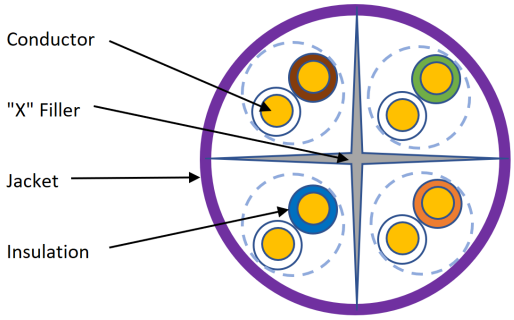
| Feature | Values |
|---|---|
| Cable type | **U/UTP** |
| Conductor material | **Copper** |
| Conductor surface | **Bare** |
| AWG size | **23** |
| Conductor category | **Class 1 = solid** |
| Total number of cores | **8** |
| Stranding element | **Pairs** |
| Specification core insulation | **Polyethylene (PE)** |
| Core identification | **Colour** |
| Overall screening | **None** |
| Conductor screening | **None** |
| Outer sheath material | **Copolymer, thermoplastic (LS0H)** |
| Outer sheath colour | **Red** |
| 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 | **a1** |
| Outer diameter approx. | **6.2 mm** |
| Installation Temperature Range | **0...60 °C** |
| Operating Temperature Range | **-20...75 °C** |
| Category | **6** |
| NVP value | **69 %** |


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## Cable specifications

| Features | Values |
|---|---|
| Maximum pulling load | **100 N** |
| MBR during installation | **8x cable OD** |
| MBR installed | **4x cable OD** |

### Cross-section diagram




## 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 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 |
| 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 |
|---|---|
| 100-071 | **Excel Solid Cat6 Cable U/UTP LSOH CPR Euroclass Dca 305 m Box Violet** |
| 100-071-1000M | **Excel Solid Cat6 Cable U/UTP LSOH CPR Euroclass Dca 1000 m Reel Violet** |
| 100-071-500M | **Excel Solid Cat6 Cable U/UTP LSOH CPR Euroclass Dca 500 m Reel Violet** |
| 100-072 | **Excel Solid Cat6 Cable U/UTP LSOH CPR Euroclass Dca 305 m Box Green** |
| 100-074 | **Excel Solid Cat6 Cable U/UTP LSOH CPR Euroclass Dca 305 m Box White** |
| 100-074-1000M | **Excel Solid Cat6 Cable U/UTP LSOH CPR Euroclass Dca 1000 m Reel White** |
| 100-074-500M | **Excel Solid Cat6 Cable U/UTP LSOH CPR Euroclass Dca 500 m Reel White** |
| 100-075 | **Excel Solid Cat6 Cable U/UTP LSOH CPR Euroclass Dca 305 m Box Orange** |
| 100-078 | **Excel Solid Cat6 Cable U/UTP LSOH CPR Euroclass Dca 305 m Box Black** |
| 100-097 | **Excel Solid Cat6 Cable U/UTP LSOH CPR Euroclass Dca 305 m Box Red** |
| 100-098 | **Excel Solid Cat6 Cable U/UTP LSOH CPR Euroclass Dca 305 m Box Blue** |
| 100-099 | **Excel Solid Cat6 Cable U/UTP LSOH CPR Euroclass Dca 305 m Box Yellow** |
| 100-103 | **Excel Solid Cat6 Dual Cable U/UTP LSOH CPR Euroclass Dca 500 m Reel White** |


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