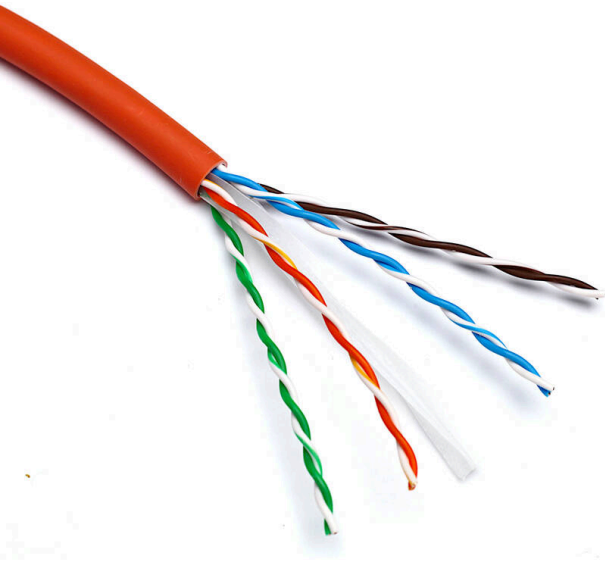


Excel Solid Cat6 Cable U/UTP LSOH CPR Euroclass B2ca 305 m Box Orange

Item Code: 190-075



- X Cat6 solid copper cable
- X U/UTP no overall screening
- X No Conductor Screening
- X Outer sheath colour: Orange
- X Reaction-to-fire class according to EN 13501-6: B2ca
- X Smoke development class according to EN 13501-6: s1a
- X CIBSE TM65 Embodied Carbon: 96.387 kg CO2e

Product Overview

Excel solid Cat6 ethernet cable U/UTP LSOH CPR Euroclass B2ca manufactured and tested to the TIA/EIA 568-B.2-1, EN50173-1 and ISO/ IEC 11801 Cat 6 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

| Feature               | Values          |
|-----------------------|-----------------|
| Conductor surface     | Bare            |
| Diameter of conductor | 0.55 +/-0.01    |
| AWG size              | 23              |
| Conductor category    | Class 1 = solid |
| Total number of cores | 8               |
| Stranding element     | Pairs           |
| Core insulation       | Solid HDPE      |

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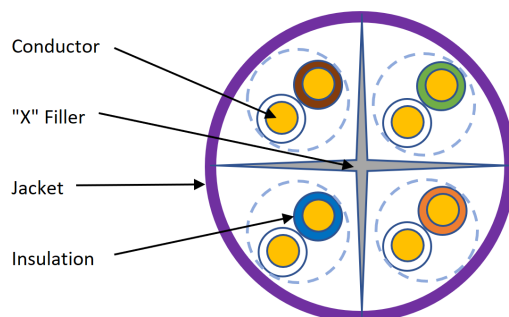


|   |                                 |
|---|---------------------------------|
| Specification core insulation                                 | Polyethylene (PE)               |
| Core identification   | Colour                          |
| Overall screening   | None                            |
| Conductor screening   | None                            |
| Outer sheath material   | Copolymer, thermoplastic (LSOH) |
| Outer sheath colour   | Orange                          |
| Flame retardant according to IEC 60332-1-2                    | yes                             |
| Reaction-to-fire class according to EN 13501-6                | B2ca                            |
| Smoke development class according to EN 13501-6               | s1a                             |
| Euro class flaming droplets/particles according to EN 13501-6 | d0                              |
| Euro class acidity according to EN 13501-6                    | a1                              |
| Outer diameter approx.  | 6.2 mm                          |
| Installation Temperature Range                                | -10...60 °C                     |
| Operating Temperature Range                                   | -10...60 °C                     |
| Category  | 6                               |
| NVP value   | 69 %                            |

## Cable specifications

| Features                | Values        |
|-------------------------|---------------|
| Dielectric strength     | 2.5 kV for 2s |
| Maximum pulling load    | 60 N/6.1 KgF  |
| 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 |
| 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   |

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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 Pollutants.   |

## Part Number Table

| Part Number | Description   |
|-------------|---|
| 190-071-500 | Excel Solid Cat6 Cable U/UTP 23AWG LSOH CPR B2ca 500 m Reel Violet    |
| 190-073     | Excel Solid Cat6 Cable U/UTP LSOH CPR Euroclass B2ca 305 m Box Green  |
| 190-074     | Excel Solid Cat6 Cable U/UTP LSOH CPR Euroclass B2ca 305 m Box White  |
| 190-074-100 | Excel Solid Cat6 Cable U/UTP LSOH CPR Euroclass B2ca 100m Box White   |
| 190-075     | Excel Solid Cat6 Cable U/UTP LSOH CPR Euroclass B2ca 305 m Box Orange |

Excel is a world class premium performing end to end infrastructure solution designed, Manufactured, supported and delivered without compromise.

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