Excel Solid Cat6 Cable U/UTP 23AWG LSOH CPR B2ca 305 m Box Violet

Item Code: 190-071





Product Overview

Excel solid Cat6 ethernet cable U/UTP 23AWG LSOH CPR 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 |
| | |

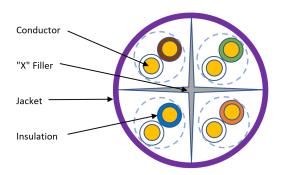
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| Specification core insulation | Polyethylene (PE) |
|---|---------------------------------|
| Core identification | Colour |
| Overall screening | None |
| Conductor screening | None |
| Outer sheath material | Copolymer, thermoplastic (LS0H) |
| Outer sheath colour | Violet |
| 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 | sla |
| Euro class flaming droplets/particles according to EN 13501-6 | d0 |
| Euro class acidity according to EN 13501-6 | al |
| Outer diameter approx. | 6.2 mm |
| Installation Temperature Range | -1060 °C |
| Operating Temperature Range | -1060 °C |
| Category | 6 |
| NVP value | 65 % |

Cross-section diagram



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Cable specifications

| Features | Values |
|--|-------------|
| Pair-to-Ground Capacitance Unbalance | ≤330pF/100m |
| Mutual Capacitance | ≤5.6nF/100m |
| Max.Delay Skew(ns/100m) | ≤45ns/100m |
| Max.Conductor DC Resistance @ 20 Deg.C | 95 (Ohm/km) |
| Min.Insulation Resistance(Mohm.km) | 5000 |
| Dielectric strength | DC ,1KV/min |
| 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 |

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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 |
|-------------|---|
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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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