

Excel Solid Cat6 Cable U/UTP 24AWG LSOH CPR Dca 305 m Box Violet

Item Code: 100-080

excel
without compromise.



✕ Cat6 24AWG Copper Cable

✕ U/UTP No Overall Screening

✕ No Conductor Screening

✕ Outer sheath colour Violet

✕ Reaction-to-fire class according to EN 13501-6: Dca

✕ Smoke development class according to EN 13501-6: s2

✕ CIBSE TM65 Embodied Carbon: 75.244 kg CO2e

Product Overview

Excel solid Cat6 ethernet cable U/UTP 24AWG LSOH CPR Dca manufactured and tested to the TIA/EIA 568-B.2-1, EN50173-1 and ISO/IEC 11801 Cat 6 specifications, 305m or 500m. Each cable consists of 8 colour coded solid copper conductors twisted together to form four pairs.

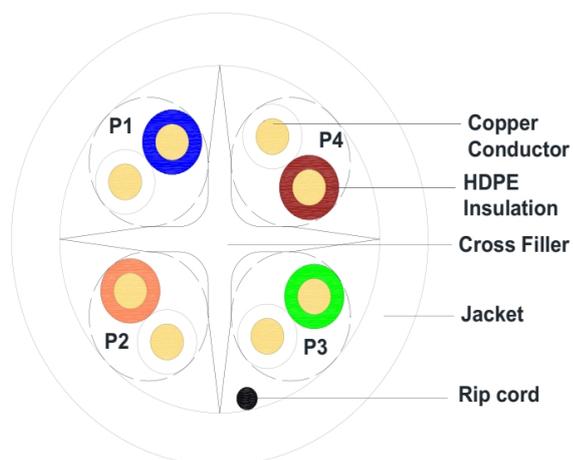
These are then formed around a central X-shaped polyethylene centre with the whole cable produced in a LSOH sheath.

Product Specifications

| Feature | Values |
|-------------------------------|-------------------|
| Conductor surface | Bare |
| AWG size | 24 |
| 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 (LSOH) |
| Outer sheath colour | Violet |
| 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. | 6.1 mm |
| Installation Temperature Range | -10...60 °C |
| Operating Temperature Range | -20...75 °C |
| Category | 6 |
| NVP value | 69 % |

Cross-section diagram



core:

P1: White/Blue

P2: White/Orange

P3: White/Green

P4: White/Brown

Cable specifications

| Features | Values |
|-------------------------|----------------|
| Dielectric strength | 2.5 kV for 2 s |
| 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 |
| 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 |

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general applications in construction works subject to reaction to fire requirements

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 |
|----------------|--|
| 100-080 | Excel Solid Cat6 Cable U/UTP 24AWG LSOH CPR Dca 305 m Box Violet |
| 100-080-WT | Excel Solid Cat6 Cable U/UTP 24AWG LSOH CPR Dca 305 m Box White |
| 100-080-WT-100 | Excel Solid Cat6 Cable U/UTP 24AWG LSOH CPR Dca 100 m Box White |

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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