

Excel Solid Cat6 Cable F/UTP LSOH CPR Euroclass Dca 305 m Reel Violet

Item Code: 100-076



- X Cat6 Solid Copper Cable
- X F/UTP Overall Foil Screening
- X No Conductor Screening
- X Outer sheath colour Violet
- X Reaction-to-fire class according to EN 13501-6: Dca
- X Smoke development class according to EN 13501-6: s2

Product Overview

Excel solid Cat6 ethernet cable F/UTP LSOH CPR Euroclass 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                      | 23                              |
| Conductor category            | Class 1 = solid                 |
| Total number of cores         | 8                               |
| Stranding element             | Pairs                           |
| Specification core insulation | Polyethylene (PE)               |
| Core identification           | Colour                          |
| Overall screening             | Foil                            |
| Conductor screening           | None                            |
| Outer sheath material         | Copolymer, thermoplastic (LSOH) |

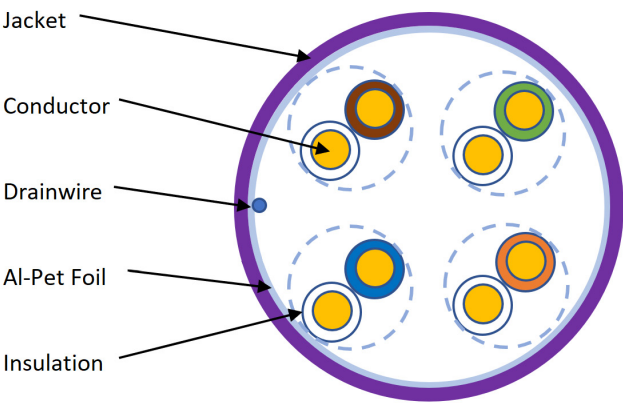
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|   |             |
|---|-------------|
| Outer sheath colour   | Violet      |
| Flame retardant according to IEC 60332-1-2                    | yes         |
| Reaction-to-fire class according to EN 13501-6                | Dca         |
| Smoke 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.  | 7.2 mm      |
| Installation Temperature Range                                | 0...50 °C   |
| Operating Temperature Range                                   | -10...60 °C |
| Category  | 6           |
| NVP value   | 70 %        |

Cross-section diagram



Cable specifications

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

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## Part Number Table

| Part Number      | Description   |
|------------------|---|
| 100-076          | Excel Solid Cat6 Cable F/UTP LSOH CPR Euroclass Dca 305 m Reel Violet           |
| 100-076/LTGN-500 | Excel Solid Cat6 Cable F/UTP LSOH CPR Euroclass Dca 500 m Reel Light Green      |
| 100-076-1000     | Excel Solid Cat6 Cable F/UTP LSOH CPR Euroclass Dca 1000m Reel Violet           |
| 100-076-305M-GN  | Excel Solid Cat6 Cable F/UTP LSOH CPR Euroclass Dca 305 m Box EasyReel Green    |
| 100-077/LTGN     | Excel Solid Cat6 Dual Cable F/UTP LSOH CPR Euroclass Dca 500 m Reel Light Green |
| 190-076          | Excel Solid Cat6 Cable F/UTP LSOH CPR Euroclass B2ca 305 m Reel Violet          |
| 190-076-305M-GN  | Excel Category 6 Cable F/UTP B2ca LSOH 305m Easyreel Box - Green                |
| 190-076-500      | Excel Solid Cat6 Cable F/UTP LSOH CPR Euroclass B2ca 500 m Reel Violet          |

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