Item Code: 100-090











- X Cat5e Solid Copper Cable
- X U/UTP No Overall Screening
- X No Conductor Screening
- X Outer sheath colour Black
- X Reaction-to-fire class according to EN 13501-6: Fca
- X 24 AWG size conductors

#### **Product Overview**

Excel Cat5e cable U/UTP PE external Grade Fca are manufactured and tested to ISO 11801, EN 50173 and ANSI/TIA-568-C Cat 5e specifications, 305m boxes. Each cable consists of 8 colour coded solid copper polyethylene insulated conductors twisted together to form four pairs.

The whole cable is produced in a PE sheath which is metre marked and labelled with part code and DoP information.

### **Product Specifications**

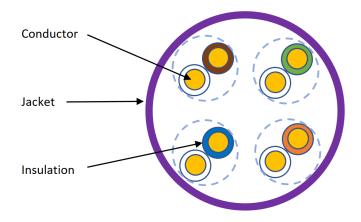
| Feature                       | Values             |
|-------------------------------|--------------------|
| Conductor surface             | Bare               |
| AWG size                      | 24                 |
| Conductor category            | Class $1 = $ solid |
| Total number of cores         | 8                  |
| Stranding element             | Pairs              |
| Specification core insulation | PE                 |
| Core identification           | Colour             |
| Overall screening             | None               |
| Conductor screening           | None               |
| Outer sheath material         | PE                 |

Item Code: 100-090



| Outer sheath colour                            | Black  |
|--|--|
| Reaction-to-fire class according to EN 13501-6 | Fca  |
| Flame retardant                                | In accordance with EN 60332-1-2 and EN 50399 |
| Outer diameter approx.                         | 5.2 mm                                       |
| Operating Temperature Range                    | -2060 °C                                     |
| Category                                       | 5E   |
| NVP value                                      | 68 %   |

## **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  |

Item Code: 100-090



### **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<br>defined conditions – Part 2: Test procedure and<br>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                          | Compliant to the Restriction of Hazardous Substances   |
| WFD                           | Compliant to Waste Framework Directive   |
| SCIP                          | Compliant - Does Not Contain Substances of Concern in Products   |
|                               |  |

Item Code: 100-090



### **Part Number Table**

| Part Number | Description  |
|-------------|--|
| 100-090     | Excel Solid Cat5e Cable U/UTP PE External Grade Fca 305m Box Black |

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

E&OE. Excel is a registered trade name of Mayflex Holdings Ltd.