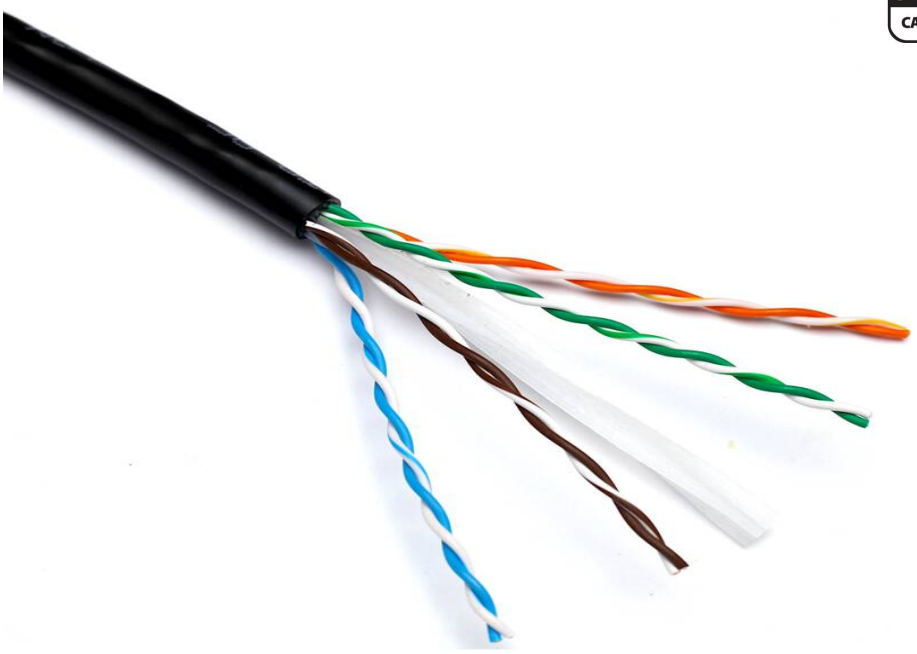
Excel Solid Cat6 Cable U/UTP PE External Grade Fca 500 m Reel Black

Part Code: 100-100-500

sales@excel-networking.com
excel-networking.com

CIBSE TM65 Embodied Carbon: 106.242 kg CO2e



Main Features

- Cat6 external grade cable for external use
- Outer sheath colour black
- 23 AWG size conductors
- No conductor screening
- Reaction-to-fire class according to EN 13501-6: Fca
- UV Exposure tested in accordance with ASTM G154 & G155

Product Overview

Excel Cat6 ethernet cable U/UTP PE external grade Fca manufactured and tested to the TIA/EIA 568-B.2-1, EN50173-1 and ISO/ IEC 11801 Cat6 specifications, sold in 500 m reels. 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 PE sheath.

Product Specifications

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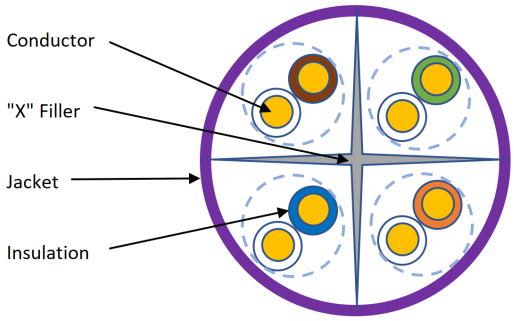
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Feature	Values
Cable type	**U/UTP**
Conductor material	**Copper**
Conductor surface	**Bare**
AWG size	**23**
Conductor category	**Class 1 = solid**
Total number of cores	**8**
Stranding element	**Pairs**
Specification core insulation	**Polyethylene (PE)**
Core identification	**Colour**
Overall screening	**None**
Conductor screening	**None**
Outer sheath material	**PE**
Outer sheath colour	**Black**
Flame retardant according to IEC 60332-1-2	**yes**
Reaction-to-fire class according to EN 13501-6	**Fca**
Outer diameter approx.	**6.3 mm**
Operating Temperature Range	**-10...75 °C**
Category	**6**
NVP value	**69 %**

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Cross-section diagram



Cable specifications

Features	Values
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

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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
Directive 2011/65/EU (RoHS II)	Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment — compliant. Applies within EU member states).
Directive (EU) 2015/863 (RoHS III)	Amending Directive 2011/65/EU to add four phthalates (DEHP, BBP, DBP, DIBP) to Annex II — compliant.
Directive 2008/98/EC (WFD)	Waste Framework Directive — compliant. Implemented in the UK through the Waste (England and Wales) Regulations 2011 (SI 2011 No. 988).
ECHA SCIP Database	Compliant; product does not contain SVHCs (Substances of Very High Concern) as defined under REACH Article

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	33(1). Submission obligations met under EU REACH and UK REACH.
Regulation (EU) 2019/1021 (POPs)	EU Regulation on Persistent Organic Pollutants — compliant. For Great Britain, compliance is aligned with the Persistent Organic Pollutants (Amendment) (EU Exit) Regulations 2020 (SI 2020 No. 1355).
UK SI 2012 No. 3032	The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (UK RoHS) — compliant for Great Britain. Retained EU law, as amended by the Product Safety and Metrology (Amendment etc.) (EU Exit) Regulations 2019.

Part Code Table

Part Code	Description
100-100	**Excel Solid Cat6 Cable U/UTP PE External Grade Fca 305 m Box Black**
100-100-500	**Excel Solid Cat6 Cable U/UTP PE External Grade Fca 500 m Reel Black**

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