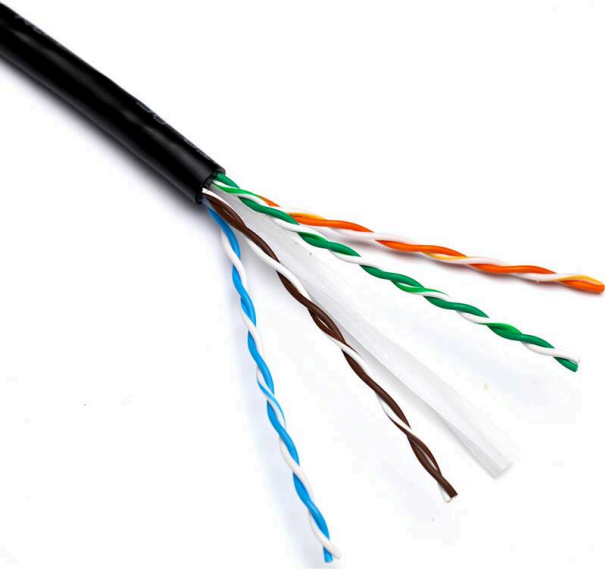


Excel Solid Cat6 Cable U/UTP PE External Grade Fca  
500 m Reel Black

Item Code: 100-100-500



- ✕ Cat6 external grade cable for external use
- ✕ No conductor screening
- ✕ Outer sheath colour black
- ✕ Reaction-to-fire class according to EN 13501-6: Fca
- ✕ 23 AWG size conductors
- ✕ UV Exposure tested in accordance with ASTM G154 & G155
- ✕ CIBSE TM65 Embodied Carbon: 106.242 kg CO2e

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

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

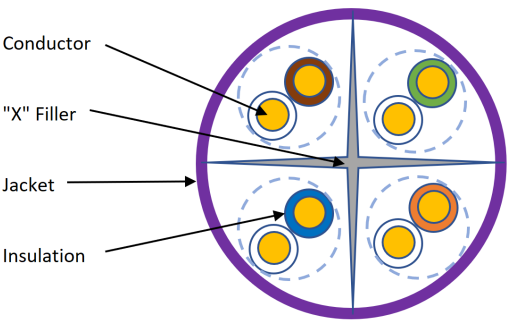
Excel Solid Cat6 Cable U/UTP PE External Grade Fca  
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Overall screening	None
Conductor screening	None
Outer sheath material	PE
Outer sheath colour	Black
Flame retardant according to IEC 60332-1-2	yes
Reaction-to-fire class according to EN 13501-6	Fca
Outer diameter approx.	6.3 mm
Operating Temperature Range	-10...75 °C
Category	6
NVP value	69 %

Cross-section diagram



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

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

Item Code: 100-100-500



## 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.

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

Item Code: 100-100-500



## Part Number Table

Part Number	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

Excel is a world class premium performing end to end infrastructure solution designed,  
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