CIBSE TM65 Embodied Carbon: 91.564 kg CO2e
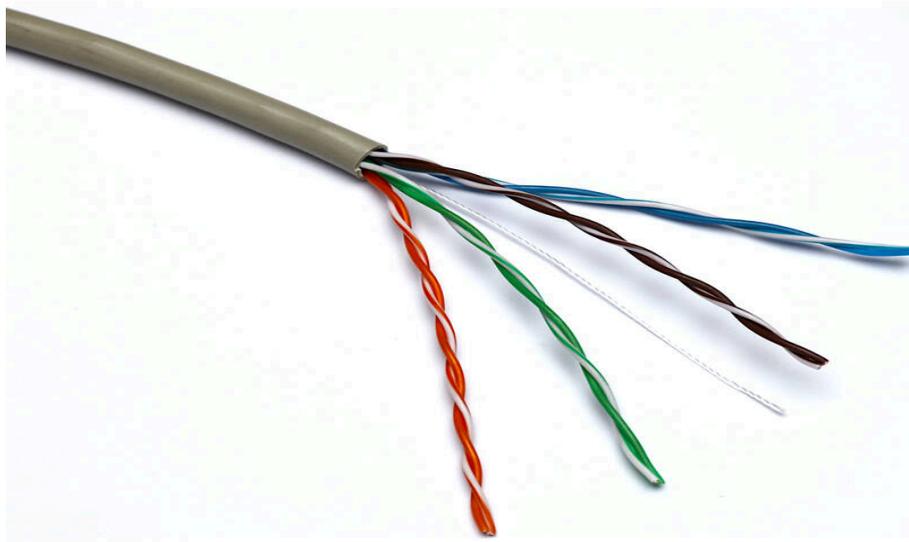
Main Features

/ Cat5e Solid Copper Cable

/ No Conductor Screening

/ Reaction-to-fire class according to EN 13501-6: Eca

/ U/UTP No Overall Screening

/ Outer sheath colour Grey

/ 24 AWG size conductors

Product Overview

Excel solid Cat5e ethernet cable U/UTP PVC CPR Euroclass Eca are manufactured and tested to ISO 11801, EN 50173 and ANSI/TIA-568-C Cat 5e specifications, 500m. 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 PVC sheath which is metre marked and labelled with part code and DoP information.
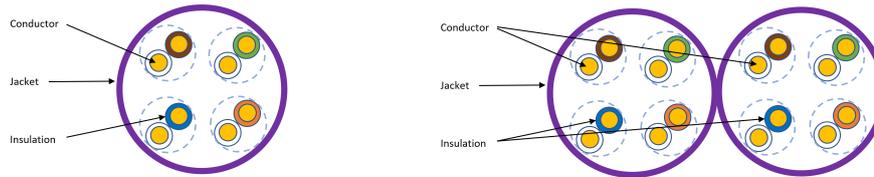
Product Specifications

Excel Solid Cat5e Cable U/UTP PVC Euroclass Eca 500 m Reel Grey

Part Code: 100-059

Feature	Values
Cable type	U/UTP
Conductor material	Copper
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	Polyvinyl chloride (PVC)
Outer sheath colour	Grey
Flame retardant according to IEC 60332-1-2	yes
Reaction-to-fire class according to EN 13501-6	Eca
Outer diameter approx.	5.2 mm
Operating Temperature Range	-10...75 °C
Category	5E
NVP value	70 %

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
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 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
100-057	**Excel Solid Cat5e Cable U/UTP LSOH Euroclass Dca 305 m Box Orange**
100-059	**Excel Solid Cat5e Cable U/UTP PVC Euroclass Eca 500 m Reel Grey**
100-060	**Excel Solid Cat5e Cable U/UTP LSOH Euroclass Dca 305 m Box White**
100-060-100	**Excel Solid Cat5e Cable U/UTP LSOH Euroclass Dca 100 m Box White**
100-061	**Excel Solid Cat5e Cable U/UTP LSOH Euroclass Dca 305 m Box Red**
100-062	**Excel Solid Cat5e Cable U/UTP LSOH Euroclass Dca 305 m Box Blue**
100-063	**Excel Solid Cat5e Cable U/UTP LSOH Euroclass Dca 305 m Box Green**
100-064	**Excel Solid Cat5e Cable U/UTP LSOH Euroclass Dca 305 m Box Yellow**
100-066	**Excel Solid Cat5e Cable U/UTP LSOH Euroclass Dca 305 m Box Violet**
100-102	**Excel Dual Cat5e Cable U/UTP LSOH Euroclass Eca 500 m Reel White**

This data sheet was generated at 11:51am 2nd June 2026 and is subject to change at any time.