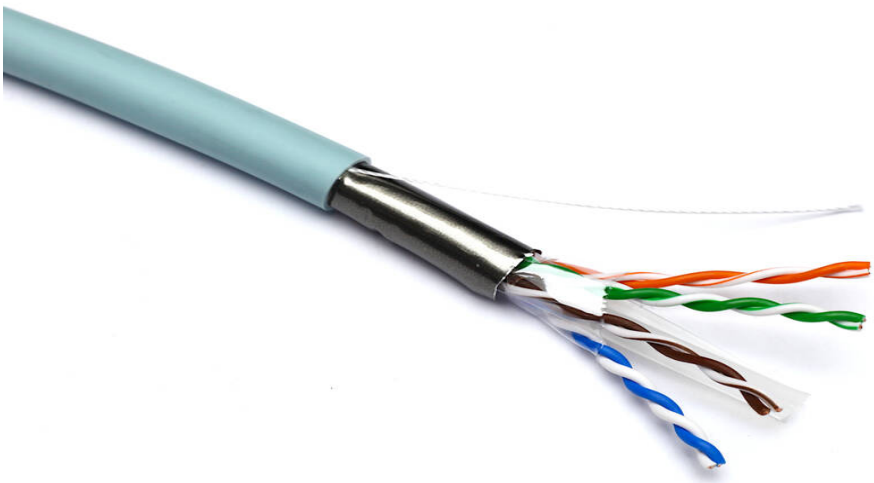
Excel Solid Cat6A Cable U/UTP 23AWG LSOH CPR Euroclass Dca 500 m Reel Aqua

Part Code: 100-219

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

CIBSE TM65 Embodied Carbon: 206.559 kg CO2e



Main Features

- Cat6A solid copper cable
- Outer non-conductive tape for alien cross talk performance
- Reaction-to-fire class according to EN 13501-6: Dca
- U/UTP no overall screening and no conductor screening
- Outer sheath colour: Aqua
- Smoke development class according to EN 13501-6: s2

Product Overview

Excel solid Cat6A cable U/UTP 23AWG LSOH CPR Euroclass Dca designed and manufactured to meet and exceed the ISO, CENELEC and TIA standards and supplied on 500 m reels. Excel Cat 6A U/UTP Cable takes the performance capabilities of copper infrastructure to new levels. This delivers Class EA/ Augmented Category 6 link performance over distances of up 90 metres which supports the applications including 10GBASE□T, 10 Gigabit Ethernet.

To keep ahead of the ever-increasing expansion of network infrastructure and the growing need to save space in existing containment, Excel Networking Solutions is pleased to introduce a new reduced-size Category 6A U/UTP cable, which features one of the smallest diameters available in the market today at 7 mm. A weight of 48 g per meter allows more cable to be placed in containment and reduces the overall floor weight of any installation.

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Its unique design overcomes the barriers of U/UTP when it comes to the CPR fire rating and performance. In smaller diameter cables, the use of a non-metallic but reflective barrier tape increases the performance of the cable and acts as a heat barrier, which reduces the combustibility of the cable giving a higher resilience to fire and decreasing the burn rate.

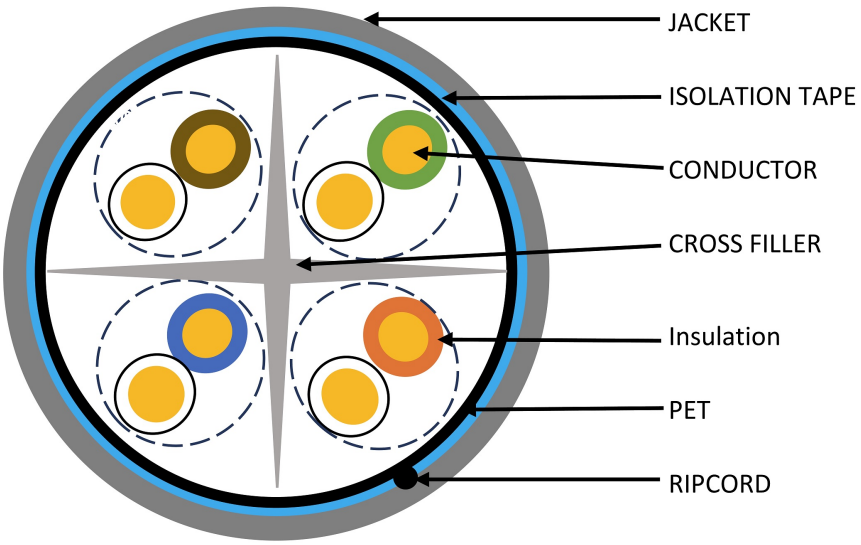
Product Specifications

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	**Copolymer, thermoplastic (LS0H)**
Outer sheath colour	**Aqua**
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	**d0**
Euro class acidity according to EN 13501-6	**a1**
Outer diameter approx.	**7 mm**

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Installation Temperature Range	**0...50 °C**
Operating Temperature Range	**-20...60 °C**
Category	**6A (IEC)**
NVP value	**65 %**
Segregation class according to EN 50174-2	**C**

Cross-section diagram



Cable specifications

Features	Values
Pair-to-ground capacitance unbalance	**≤1600 pF/km**
Mutual capacitance	**≤5.6 nF/100 m mutual**
Max. delay skew (ns/100 m)	**≤45 ns/100 m**

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Max. conductor DC resistance @ 20°C	**93.8 (Ohm/km)**
Min. insulation resistance (Mohm.km)	**5000**
Tensile load	**110 N**
MBR during installation	**8x cable OD**
MBR installed	**4x cable OD**
Cable weight	**0.048 g per m / 48.2 kgs per km**

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

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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
IEEE 802.3bt (Type 4)	Compliant to IEEE 802.3bt (Type 4)
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.

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Part Code Table

Part Code	Description
100-219	**Excel Solid Cat6A Cable U/UTP 23AWG LSOH CPR Euroclass Dca 500 m Reel Aqua**
100-219-WT	**Excel Solid Cat6A Cable U/UTP 23AWG LSOH CPR Euroclass Dca 500 m Reel White**
190-219	**Excel Solid Cat6A Cable U/UTP 23AWG LSOH CPR B2ca 500 m Reel Aqua**

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