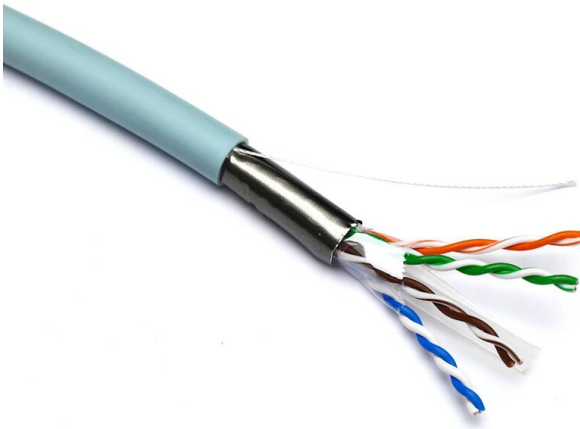


Excel Solid Cat6A Cable U/UTP 23AWG LSOH CPR B2ca 500 m Reel Aqua

Item Code: 190-219

excel
without compromise.



Cat6A 23 AWG copper cable

U/UTP no overall screening and no conductor screening

Outer non-conductive tape for alien cross talk performance

Outer sheath colour: Aqua

Reaction-to-fire class according to EN 13501-6: B2ca

Smoke development class according to EN 13501-6: s1a

CIBSE TM65 Embodied Carbon: 183.672 kg CO2e

Product Overview

Excel solid Cat6A cable U/UTP 23 AWG LSOH CPR Euroclass B2ca designed and manufactured to meet and exceed the ISO, CENELEC and TIA standards and supplied on 500 m reels. Excel Cat6A 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 to 90 m 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.

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

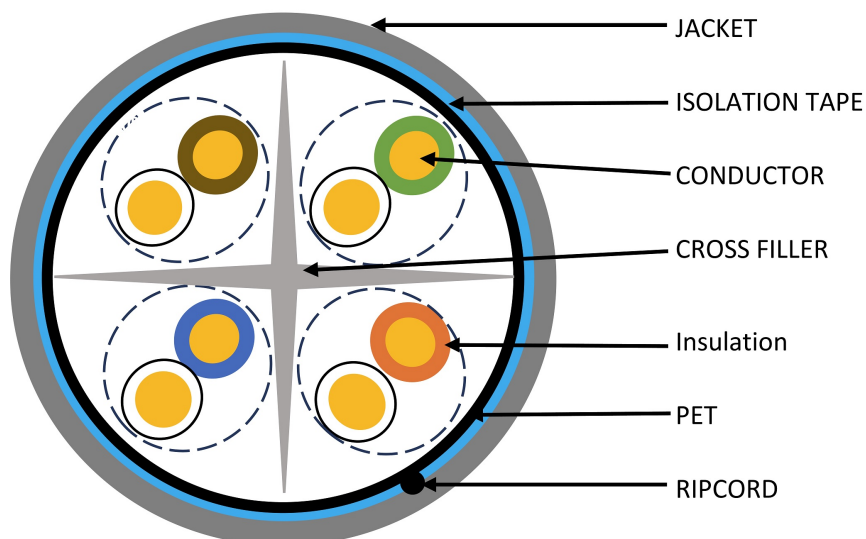
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| | |
|---|---------------------------------|
| Conductor surface | Bare |
| AWG size | 23 |
| Conductor category | Class 1 = solid |
| Total number of cores | 8 |
| Stranding element | Pairs |
| Specification core insulation | Polyethylene (PE) |
| Core identification | Colour |
| Overall screening | None |
| Conductor screening | None |
| Outer sheath material | Copolymer, thermoplastic (LSOH) |
| Outer sheath colour | Aqua |
| Flame retardant according to IEC 60332-1-2 | yes |
| Reaction-to-fire class according to EN 13501-6 | B2ca |
| Smoke development class according to EN 13501-6 | s1a |
| 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 |
| Installation Temperature Range | 0...50 °C |
| Operating Temperature Range | -20...60 °C |
| Category | 6A (IEC) |
| NVP value | 68 % |
| 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 |
| 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 |
| 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). |

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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 Number Table

| Part Number | 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 |

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.