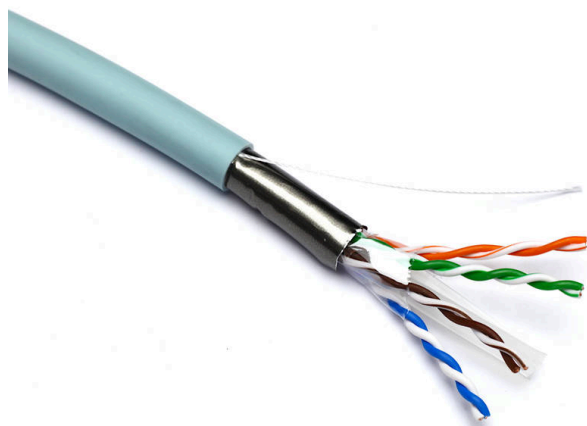


Excel Solid Cat6A Cable U/UTP 23AWG LSOH CPR Euroclass Dca 500m Reel Ice Blue

Item Code: 100-219

excel
without compromise.



✕ Cat6a Solid Copper Cable

✕ U/UTP No Overall Screening

✕ No Conductor Screening

✕ Outer sheath colour Ice Blue

✕ Reaction-to-fire class according to EN 13501-6: Dca

✕ 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 500m 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 to 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 7mm. A weight of 48g 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
Conductor surface	Bare
AWG size	23
Conductor category	Class 1 = solid
Total number of cores	8
Stranding element	Pairs

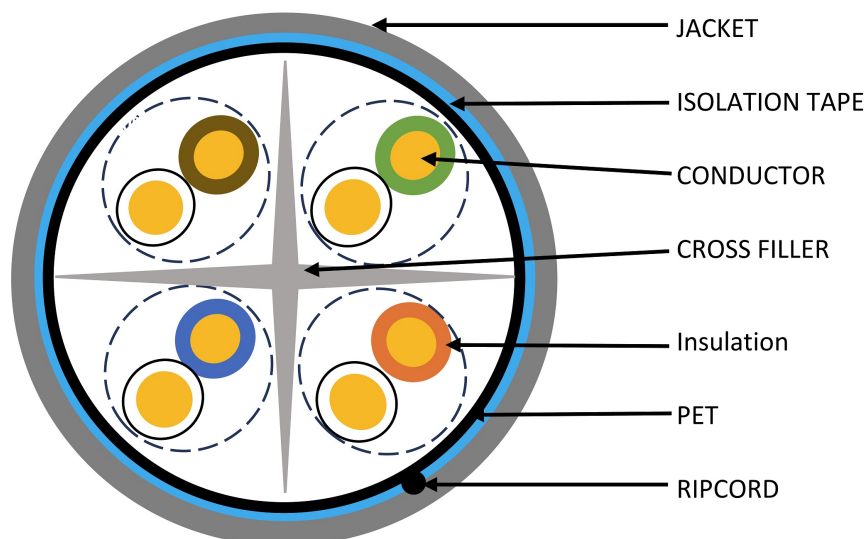
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Specification core insulation	PE
Core identification	Colour
Overall screening	None
Conductor screening	None
Outer sheath material	Copolymer
Outer sheath colour	Ice Blue
Reaction-to-fire class according to EN 13501-6	Dca
Smoke development class according 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
Halogen free (acc. EN 60754-1/2)	Yes
Flame retardant	In accordance with EN 60332-1-2 and EN 50399
Low smoke (acc. BS EN 61034-2)	Yes
Outer diameter approx.	7 mm
Installation Temperature Range	0...50 °C
Operating Temperature Range	-20...60 °C
Category	6A (IEC)
NVP value	68 %

Cross-section diagram



Cable specifications

Features	Values
Pair-to-Ground Capacitance Unbalance	$\leq 1600\text{pF/km}$
Mutual Capacitance	$\leq 5.6\text{nF}/100\text{m}$ Mutual
Max.Delay Skew(ns/100m)	$\leq 45\text{ns}/100\text{m}$
Max.Conductor DC Resistance @ 20 Deg.C	93.8 (Ohm/km)
Min.Insulation Resistance(Mohm.km)	5000
Dielectric strength	1000v DC
Maximum Pulling Load	25N
MBR during installation	8x cable OD
MBR installed	4x cable OD
Cable weight	0.048g per mtr / 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
RoHS	Compliant to the Restriction of Hazardous Substances
WFD	Compliant to Waste Framework Directive
SCIP	Compliant - Does Not Contain Substances of Concern in Products

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

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Part Number Table

Part Number	Description
100-219	Excel Solid Cat6a Cable U/UTP 23AWG LSOH CPR Euroclass Dca 500m Reel Ice Blue
100-219-WT	Excel Solid Cat6a Cable U/UTP 23AWG LSOH CPR Euroclass Dca 500m Reel White
190-219	Excel Solid Cat6a Cable U/UTP 23AWG LSOH CPR B2ca 500m Reel Ice Blue

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.