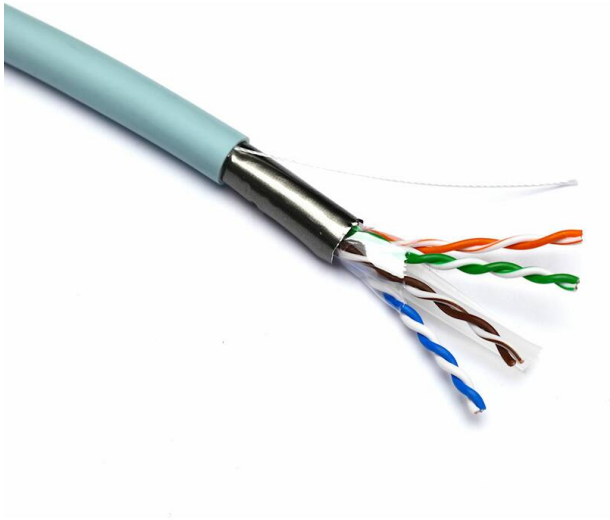
Excel Solid Cat6A Cable U/UTP 23AWG LSOH CPR B2ca 500 m Reel Aqua

Item Code: 190-219



- 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 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

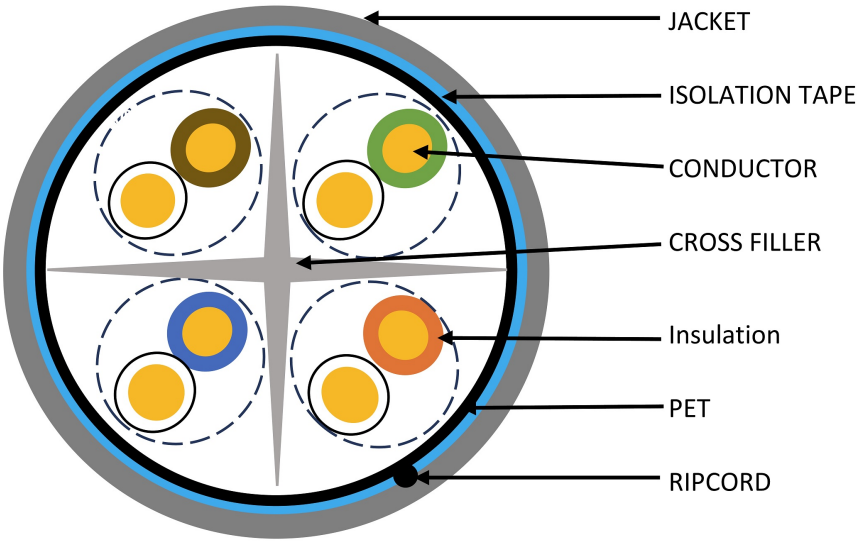
Feature	Values
Conductor surface	Bare
AWG size	23

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

Item Code: 190-219

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	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
Dielectric strength	1000 V DC
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)
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.

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