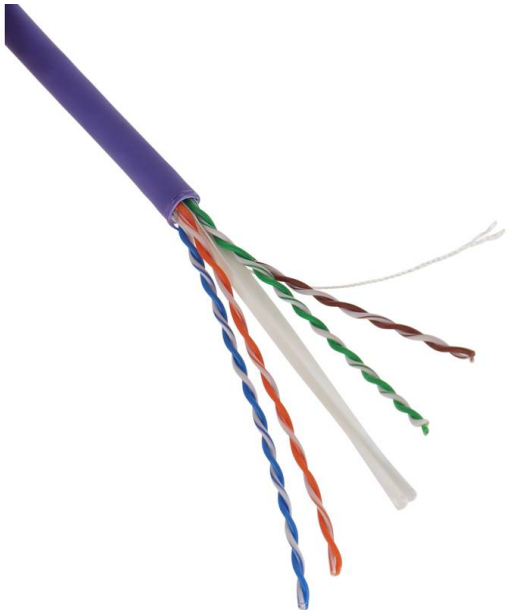
Excel Solid Cat6 Cable U/UTP 23AWG LSOH CPR B2ca 305m Box Violet

Item Code: 190-071



- Cat6 23AWG Copper Cable
- U/UTP No Overall Screening
- No Conductor Screening
- Outer sheath colour Violet
- Reaction-to-fire class according to EN 13501-6: B2ca
- Smoke development class according to EN 13501-6: s1a

Product Overview

Excel solid Cat6 ethernet cable U/UTP 23AWG LSOH CPR B2ca manufactured and tested to the TIA/EIA 568-B.2-1, EN50173-1 and ISO/ IEC 11801 Cat 6 specifications, 305m or 500m. Each cable consists of 8 colour coded solid copper conductors twisted together to form four pairs.

These are then formed around a central X-shaped polyethylene centre with the whole cable produced in a LSOH sheath.

Product Specifications

Feature	Values
Conductor surface	Bare
Diameter of conductor	0.55 mm
Conductor category	Class 1 = solid
Total number of cores	8
Stranding element	Pairs
Core insulation	Solid HDPE
Specification core insulation	PE
Core identification	Colour
Overall screening	None
Conductor screening	None

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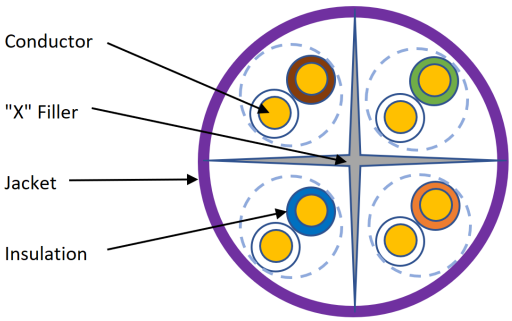
Outer sheath material	Copolymer
Outer sheath colour	Violet
Reaction-to-fire class according to EN 13501-6	B2ca
Smoke development class according to EN 13501-6	s1a
Euro class flaming droplets/particles according to EN 13501-6	d0
Euro class acidity according to EN 13501-6	a1
Halogen free (acc. EN 60754-1/2)	Yes
Flame retardant	In accordance with EN 60332-1-2 and EN 50399
Low smoke (acc. BS EN 61034-2)	Yes
Outer diameter approx.	6.2 mm
Installation Temperature Range	-10...60 °C
Operating Temperature Range	-10...60 °C
Category	6
NVP value	65 %

Cross-section diagram



Cable specifications

Features	Values
Pair-to-Ground Capacitance Unbalance	≤330pF/100m
Mutual Capacitance	≤5.6nF/100m
Max.Delay Skew(ns/100m)	≤45ns/100m
Max.Conductor DC Resistance @ 20 Deg.C	95 (Ohm/km)
Min.Insulation Resistance(Mohm.km)	5000
Dielectric strength	DC ,1KV/min
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 50288-6-1:2013	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+A1:2013	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	Restriction of Hazardous Substances - Compliant

Part Number Table

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