Excel Category 6 Cable U/UTP 23AWG B2ca LS0H 305m Box - Violet
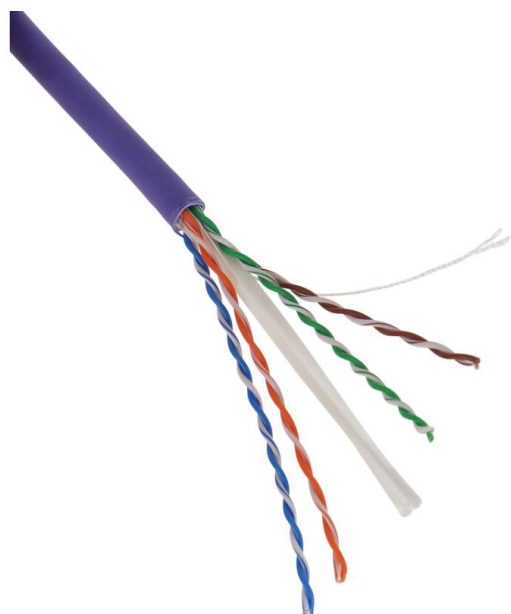
Item Code: 5006-475E

- X EC Verified
- X Choice of Colour
- X Choice of reel size
- X Fast feed box
- X Sequential metre markings
- X Euroclass B2ca-s1a-d0-a1

Product Overview

Excel Category 6 Unscreened cables are manufactured and tested to the TIA/EIA 568-B.2-1, EN50173-1 and ISO/ IEC 11801 Category 6 specifications. Each cable consists of 8 colour coded polyethylene insulated conductors. These are twisted together to form 4 pairs with varying lay lengths. These pairs are then formed around a central X-shaped polyethylene filler, which assists in maintaining and enhancing the cable performance.
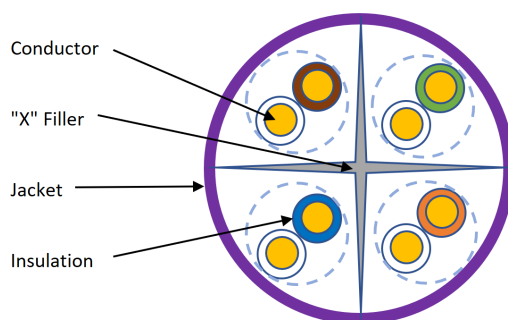
The print legend on the cable now includes information regarding the DOP number, Test and Classification of the cable for traceability.

Product Specifications

Feature	Values
Category	6
Overall screening	None
Conductor screening	None
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
AWG-size	23

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Specification core insulation	PE
Core identification	Colour
Outer sheath material	Copolymer
Diameter of conductor	0.55 mm
Flame retardant	In accordance with EN 60332-1-2 and EN 50399
Outer diameter approx.	6.2 mm
Installation Temperature Range	-10...60 °C
Operating Temperature Range	-10...60 °C
NVP value	65 %
Conductor category	Class 1 = solid
Total number of cores	8
Stranding element	Pairs
Core insulation	Solid HDPE
Conductor surface	Bare

Cross-section diagram

Conductor

"X" Filler

Jacket

Insulation

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 61156-5:2009+AMD1:2012 CSV	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 50173-1:2011	Information technology. Generic cabling systems - General requirements
EN 50173-2:2007 + A1:2010	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	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 568-2.D	Balanced Twisted-Pair Telecommunications Cabling and Components Standards
IEC 60754-2:2011	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

Part Number	Description
190-071	EXCEL CAT6 UTP CABLE BX305M VIOLET B2ca

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