

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

Item Code: 190-071

excel
without compromise.



✕ 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.

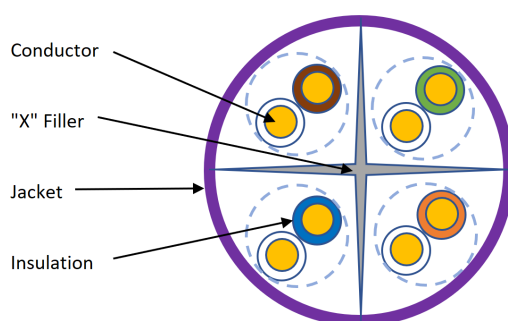
These are then formed around a central X-shaped polyethylene centre with the whole cable produced in a LSOH sheath.

Product Specifications

Feature	Values
Conductor surface	Bare
Diameter of conductor	0.55 mm
AWG size	23
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
Outer sheath material	Copolymer, thermoplastic (LSOH)
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 50288-3-1:2013	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

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

Item Code: 190-071



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

Part Number Table

Part Number	Description
190-071	Excel Solid Cat6 Cable U/UTP 23AWG LSOH CPR B2ca 305m Box Violet

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.