

- ☒ Cat6A solid copper cable
- ☒ S/FTP overall screening and foil screen per pair
- ☒ Support PoE++ type 4 (90 W)
- ☒ Outer sheath colour: black
- ☒ Reaction-to-fire class according to EN 13501-6: B2ca
- ☒ Smoke development class according to EN 13501-6: s1a
- ☒ CIBSE TM65 Embodied Carbon: 237.855 kg CO2e

## Product Overview

Excel screened Cat6A cable S/FTP LSOH with individual foil wrapped pairs and overall foil wrap and braided screening supplied on 500 m reel. Excel Cat6A fully screened (S/FTP) 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.

Each cable consists of four pairs which are individually wrapped with a high quality, strong, aluminium/polyester foil tape providing screening for each pair. The individual pairs are set to different lay lengths to ensure optimum performance. These are then wrapped in another, overall foil and an overall braid screening.

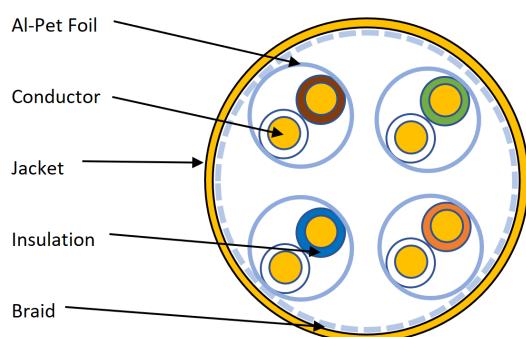
These cables are also suitable for PoE, PoE+ and PoE++ applications including type 3 and type 4, which enables delivery of 90 W over the four pairs.

## Product Specifications

Feature	Values
Conductor surface	Bare
AWG size	23
Conductor category	Class 1 = solid

Total number of cores	8
Stranding element	Pairs
Specification core insulation	Polyethylene (PE)
Core identification	Colour
Overall screening	Braiding
Conductor screening	Foil
Outer sheath material	Copolymer, thermoplastic (LSOH)
Outer sheath colour	Black
Flame retardant according to IEC 60332-1-2	yes
Low smoke (acc. IEC 61034-2)	yes
Halogen free (acc. IEC 60754-2)	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	d1
Euro class acidity according to EN 13501-6	a1
Outer diameter approx.	7.5 mm
Operating Temperature Range	-20...70 °C
Category	6A (IEC)
NVP value	74 %

### Cross-section diagram



## Cable specifications

Features	Values
Dielectric strength	2.5 kV for 2s
Maximum pulling load	100 N
Max. Resistance (Ohm/Km)	≤93.8 Ω/km
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 unshielded 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
100-914	Excel Solid Cat6A Cable S/FTP LSOH CPR Euroclass Dca 500 m Reel White
100-914-GRY	Excel Solid Cat6A Cable S/FTP LSOH CPR Euroclass Dca 500 m Reel Grey
100-914-ORG	Excel Solid Cat6A Cable S/FTP LSOH CPR Euroclass Dca 500 m Reel Orange
190-914	Excel Solid Cat6A Cable S/FTP LSOH CPR Euroclass B2ca 500 m Reel White
190-914-BK	Excel Solid Cat6A Cable S/FTP LSOH CPR Euroclass B2ca 500 m Reel Black
190-914-GY	Excel Solid Cat6A Cable S/FTP LSOH CPR Euroclass B2ca 500 m Reel Grey
190-914-RD	Excel Solid Cat6A Cable S/FTP LSOH CPR Euroclass B2ca 500 m Reel Red

Excel is a world class premium performing end to end infrastructure solution designed, Manufactured, supported and delivered without compromise.

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without compromise.