

Excel Solid Cat6A External SWA Cable S/FTP PE 500 m Reel Black

Item Code: 100-984



- ✕ Cat6A solid copper cable
- ✕ S/FTP overall braided screen
- ✕ Outer sheath colour black
- ✕ Steel wire armour braid for harsh environments
- ✕ Steel wire braid must be bonded with metal gland
- ✕ 25 year system warranty

Product Overview

Excel Cat6A cable screened S/FTP PE steel wire braid armoured external grade is manufactured to meet and exceed the ISO, CENELEC and TIA standards, supplied on 500 m Drums. This excel screened network cable designed for harsh environments such as ship and offshore applications, features 23AWG solid conductors, foam PE insulation, AL/Mylar individual screen, drain wire, aluminum magnesium wire braiding overall screen, LSZH inner jacket, galvanized steel wire braiding armour and PE outer jacket. Please use Metal Gland item 750-095 to bond the outer steel wire armour at the demarcation point into the building.

This delivers Class EA/Augmented Cat6A link performance over distances of up to 90 m which supports the applications including 10GBASE-T, 10 Gigabit Ethernet. Each cable consists of 4 pairs individually wrapped with high quality, strong, aluminium/polyester foil tape providing screening for each pair. The foil configuration ensures separation of the pairs that ensures the performance and the individual pairs are set to different lay lengths to ensure optimum performance.

Product Specifications

Feature	Values
Conductor material	Copper
Conductor surface	Bare
AWG size	23
Conductor category	Class 1 = solid
Total number of cores	8
Stranding element	Pairs
Specification core insulation	Polyethylene (PE)

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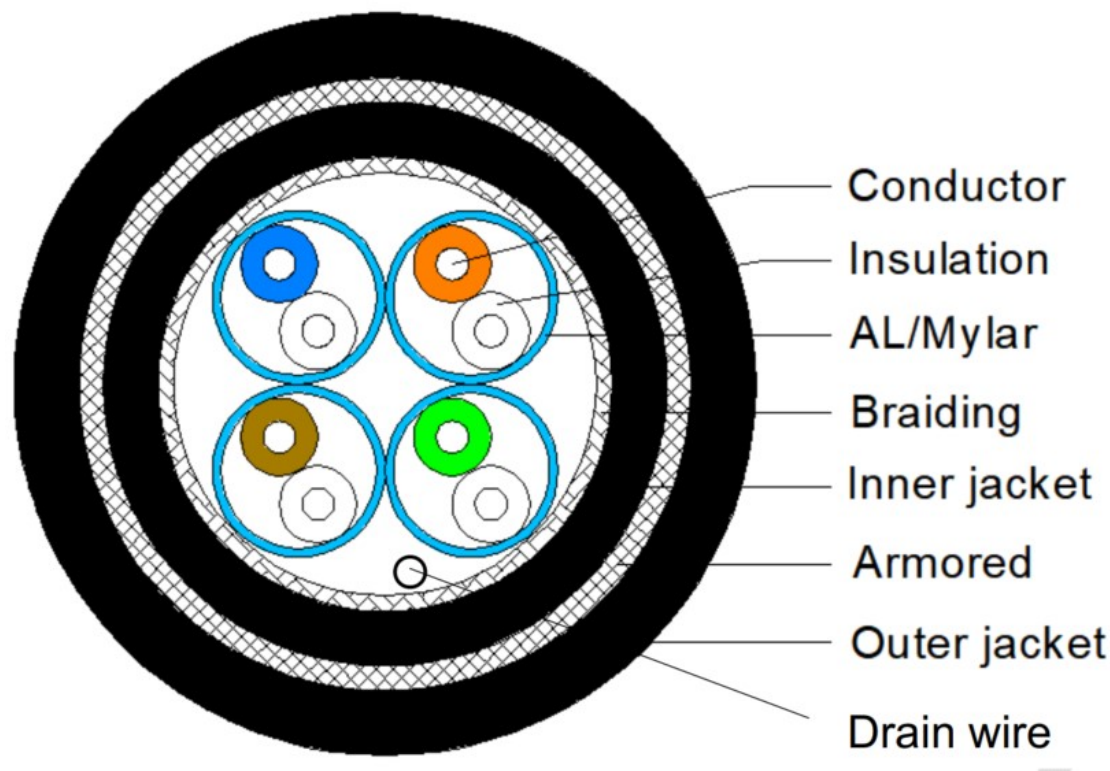
Core identification	Colour
Overall screening	Braiding
Conductor screening	Foil
Outer sheath material	Polyethylene (PE)
Outer sheath colour	Black
Flame retardant according to IEC 60332-1-2	yes
Reaction-to-fire class according to EN 13501-6	Fca
Outer diameter approx.	11.5 mm
Min. permitted bending radius, moving application with forced guidance	95 mm
Min. permitted bending radius, stationary application/permanent installation	45 mm
Installation Temperature Range	-20...60 °C
Category	6A (IEC)
NVP value	74 %
Max. tensile strength during installation	100 kN

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Cross-section diagram



Additional specifications

Feature	Value
Outer jacket material	PE
Outer jacket colour	Black
Inner jacket material	Copolymer, thermoplastic (LS0H)
Inner jacket colour	Black
Inner cable diameter (mm)	8.2 mm

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Cable specifications

Features	Values
Dielectric strength	1.7 kV for 60 s
Maximum pulling load	300 N
MBR during installation	8x cable OD
MBR installed	4x cable OD

Standards

Applicable standard	Detail
ISO/IEC 11801:2017	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 1000 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

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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
100-984	Excel Solid Cat6A External SWA Cable S/FTP PE 500 m Reel Black

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



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