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

Part Code: 100-984

sales@excel-networking.com
excel-networking.com



Main Features

- Cat6A solid copper cable
- Outer sheath colour black
- Steel wire braid must be bonded with metal gland
- S/FTP overall braided screen
- Steel wire armour braid for harsh enviroments
- 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 enviroments 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 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.

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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.

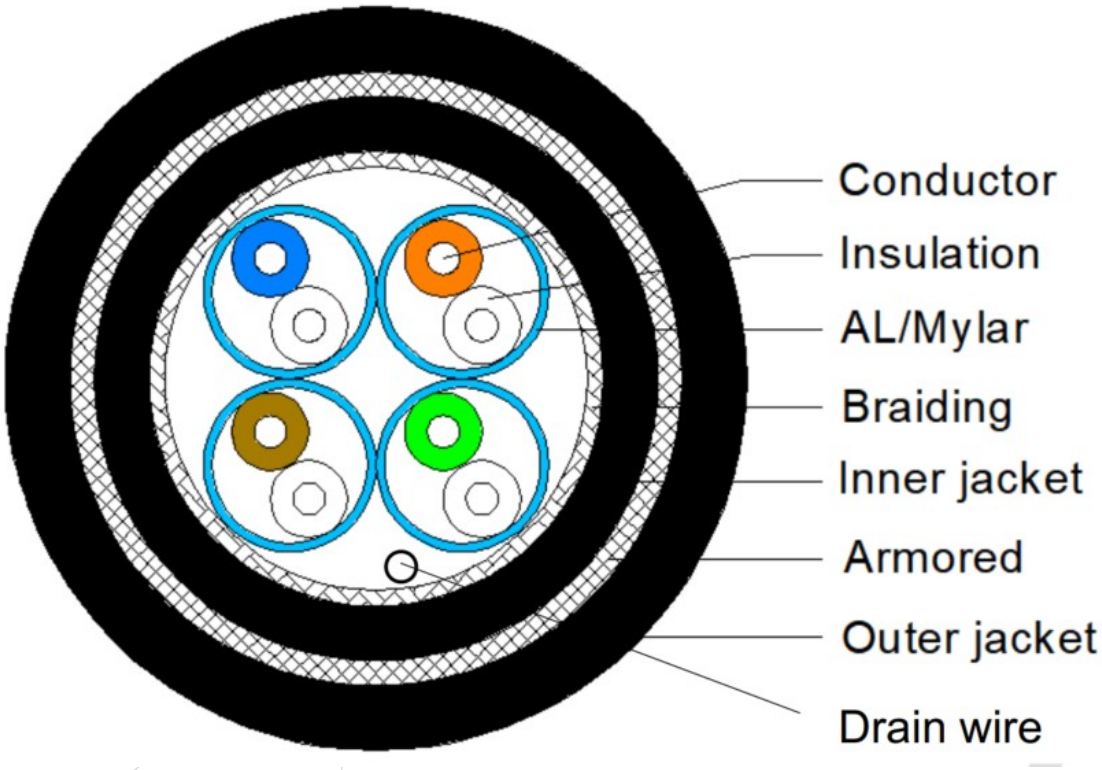
Product Specifications

Feature	Values
Cable type	**S/FTP**
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)**
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**

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Category	**6A (IEC)**
NVP value	**74 %**
Max. tensile strength during installation	**0.1 kN**

Cross-section diagram



Additional specifications

Feature	Value
Outer jacket material	**PE**
Outer jacket colour	**Black**
Inner jacket material	**Copolymer, thermoplastic (LS0H)**

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Inner jacket colour	**Black**
Inner cable diameter (mm)	**8.2 mm**

Cable specifications

Features	Values
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.

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	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)
Directive 2011/65/EU (RoHS II)	Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment — compliant. Applies within EU member states).
Directive (EU) 2015/863 (RoHS III)	Amending Directive 2011/65/EU to add four phthalates (DEHP, BBP, DBP, DIBP) to Annex II — compliant.
Directive 2008/98/EC (WFD)	Waste Framework Directive — compliant. Implemented in the UK through the Waste (England and Wales) Regulations 2011 (SI 2011 No. 988).
ECHA SCIP Database	Compliant; product does not contain SVHCs (Substances of Very High Concern) as defined under REACH Article 33(1). Submission obligations met under EU REACH and UK REACH.
Regulation (EU) 2019/1021 (POPs)	EU Regulation on Persistent Organic Pollutants — compliant. For Great Britain, compliance is aligned with the Persistent Organic Pollutants (Amendment) (EU Exit) Regulations 2020 (SI 2020 No. 1355).
UK SI 2012 No. 3032	The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment

Regulations 2012 (UK RoHS) — compliant for Great Britain. Retained EU law, as amended by the Product Safety and Metrology (Amendment etc.) (EU Exit) Regulations 2019.

Part Code Table

Part Code	Description
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