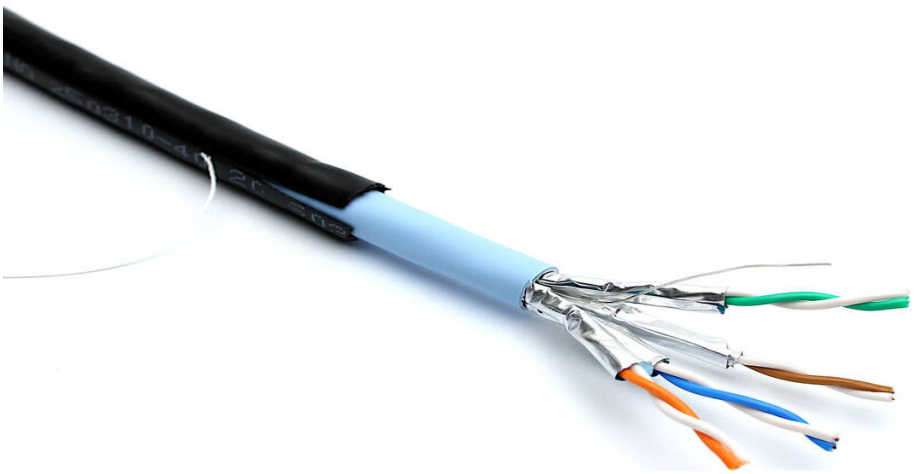
Excel Cat6A Cable Double Sheath U/FTP B2ca to Fca PE UV protection 500 m RL Black

Part Code: 190-980-DS

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

CIBSE TM65 Embodied Carbon: 165.479 kg CO2e



Main Features

- Cat6A internal/external solid copper cable
- Outer sheath black PE ultraviolet resistance: Fca class
- Reaction-to-fire class inner sheath to EN 13501-6: B2ca
- U/FTP no overall screening, foil screen per pair
- CPR Rating is on inner sheath only as Part Code: 190-980
- Use with IP68 coupler: 100-151-EXS

Product Overview

Excel Cat6A cable double sheath U/FTP S-Foil PE external sheath, B2ca inner sheath cable is manufactured to meet and exceed the ISO, CENELEC and TIA standards up to 90 m. The cables offer a protective PE sheath which is water, UV and moisture resistant and features a rip chord to assist with outer sheath removal.

They can be installed outdoors in ducts and are suitable for use indoors when the PE sheath is removed. This cable is CPR rated on its inner Sheath as part code 190-980 and must have its black outer sheath removed when installed for more than 2 m inside the building.

Use with our Cat6A IP68 coupler to join to patch feild chords for easy termination to outdoor equipment. Excel Cat6A screened (U/FTP) cable takes the performance capabilities of copper infrastructure to new levels.

This data sheet was generated at 8:16am 21st November 2026 and is subject to change at any time.

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

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 and PoE++.

Each cable consists of 4 pairs of solid cores wrapped in an S-Foil high quality, strong, aluminium/polyester foil tape providing screening for each pair. The foil configuration ensures separation of the pairs that ensures the performance. The individual pairs are set to different lay lengths to ensure optimum performance.

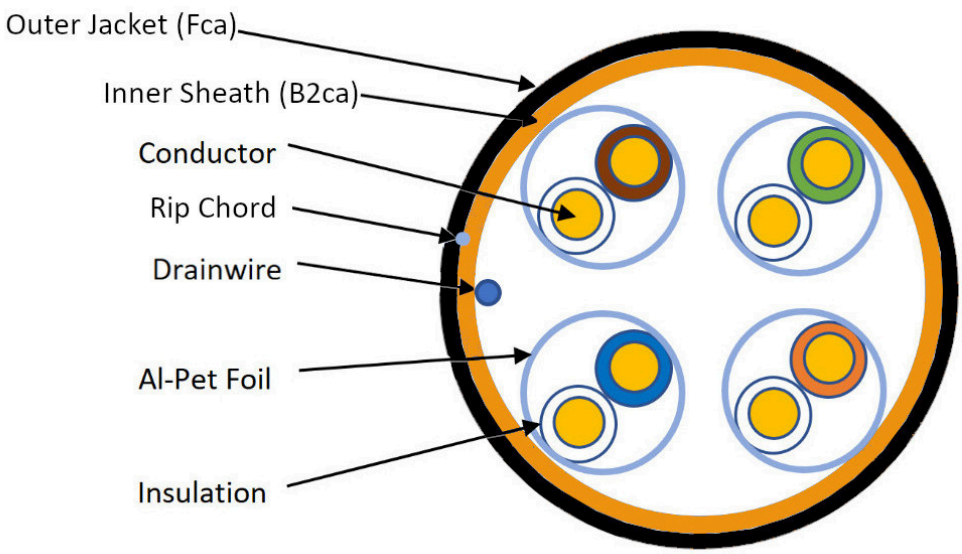
Product Specifications

Feature	Values
Cable type	**U/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	**None**
Conductor screening	**Foil**
Outer sheath material	**Copolymer, thermoplastic (LS0H)**
Outer sheath colour	**Black**
Flame retardant according to IEC 60332-1-2	**yes**
Low smoke (acc. IEC 61034-2)	**yes**
Reaction-to-fire class according to EN 13501-6	**Fca**
Outer diameter approx.	**8.1 mm**
Operating Temperature Range	**-10...60 °C**

This data sheet was generated at 8:16am 21st November 2026 and is subject to change at any time.

Category	**6A (IEC)**
NVP value	**78.8 %**

Product drawing



Additional specifications

Features	Values
Outer jacket material	**PE**
Outer jacket colour	**Black**
Inner jacket material	**Copolymer, thermoplastic (LS0H)**
Inner jacket Reaction-to-fire to EN 13501-6	**B2ca**
Inner jacket colour	**Aqua**
Inner cable diameter (mm)	**6.85 mm**
Maximum pulling load	**50 N**

This data sheet was generated at 8:16am 21st November 2026 and is subject to change at any time.

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

This data sheet was generated at 8:16am 21st November 2026 and is subject to change at any time.

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
190-980-DS	**Excel Cat6A Cable Double Sheath U/FTP B2ca to Fca PE UV protection 500 m RL Black**

This data sheet was generated at 8:16am 21st November 2026 and is subject to change at any time.

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

This data sheet was generated at 8:16am 21st November 2026 and is subject to change at any time.