

Dataflow Network Installations Limited

Technical Submissions for the Data Installation at Sunlight House Manchester .

Job Ref-20021
Rev 1.0

	<u>DESCRIPTION - Data</u>	<u>Part Number</u>	<u>Manufacture</u>
1)	Cat6a U/FTP B2ca,Data Cable	190-191-305	Excel
2)	1u 24 Port Patch Panel Frame	100-028	Excel
3)	Cat6a Keystone Jacks	100-181	Excel
4)	Angled Keystone Jack Shutters 25x 50mm	100-280	Excel
5)	Office Range Single Gang Faceplates	100-270	Excel
6)	Cable Management Bar -	100-582	Environ
7)	1 & 3 Metre Patch Leads	100-153/100-148	Excel
8)	Excel Accrediation		Excel
9)	Certified Network Infrastructure Design Professional Certificate		CNIDP

Excel Solid Cat6A Cable U/FTP LSOH CPR Euroclass B2ca 305m Box Ice Blue

Item Code: 190-191-305M

excel
without compromise.



✕ Cat6A solid copper cable

✕ U/FTP no overall screening

✕ Foil screen per pair

✕ Outer sheath colour ice blue

✕ Reaction-to-fire class according to EN 13501-6: B2ca

✕ Smoke development class according to EN 13501-6: s1a

Product Overview

Excel solid Cat6A cable individually screened full U/FTP LSOH CPR Euroclass B2ca designed and manufactured to meet and exceed the ISO, CENELEC and TIA standards and supplied on 305 m boxes. Excel Cat6A fully screened (U/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 to 90 metres 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.

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	PE
Core identification	Colour

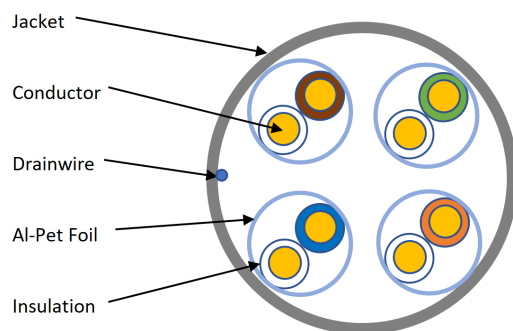
Excel Solid Cat6A Cable U/FTP LSOH CPR Euroclass B2ca 305m Box Ice Blue

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Overall screening	None
Conductor screening	Foil
Outer sheath material	Copolymer, thermoplastic (LSOH)
Outer sheath colour	Ice blue
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
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.	7.4 mm
Installation Temperature Range	0...60 °C
Operating Temperature Range	-20...60 °C
Category	6A (IEC)
NVP value	76 %

Cross-section diagram



Excel Solid Cat6A Cable U/FTP LSOH CPR Euroclass B2ca 305m Box Ice Blue

Item Code: 190-191-305M



Cable specifications

Features	Values
Dielectric strength	2.5kV for 2s
Maximum Pulling Load	60N/6.1KgF
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 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

Excel Solid Cat6A Cable U/FTP LSOH CPR Euroclass B2ca 305m Box Ice Blue

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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	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
190-191	Excel Solid Cat6A Cable U/FTP LSOH CPR Euroclass B2ca 500m Reel Ice Blue
190-191-305M	Excel Solid Cat6A Cable U/FTP LSOH CPR Euroclass B2ca 305m Box Ice Blue
190-191-OR-305M	Excel Solid Cat6A Cable U/FTP LSOH CPR Euroclass B2ca 305m Box Orange
190-191-WT-305M	Excel Solid Cat6A Cable U/FTP LSOH CPR Euroclass B2ca 305m Box White

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E&OE. Excel is a registered trade name of Mayflex Holdings Ltd.

Excel Unloaded Keystone Patch Panel Frame - 24-port, 1U - Chrome

Item Code: 100-028

excel
without compromise.



✕ Choice of category

✕ Choice of finish

✕ Choice of port density

✕ Earth kit, cage nuts included

✕ Fast fit rear cable management

✕ For Screened and Unscreened systems

Product Overview

Excel keystone jack patch panel frames are available for mounting of the range of screened and unscreened Excel toolless keystone jacks.

A rear management tray with purposely designed cable tie positions, is supplied with each panel which is fitted without the need for any tools or fixings by simply snapping it into place.

Product Specifications

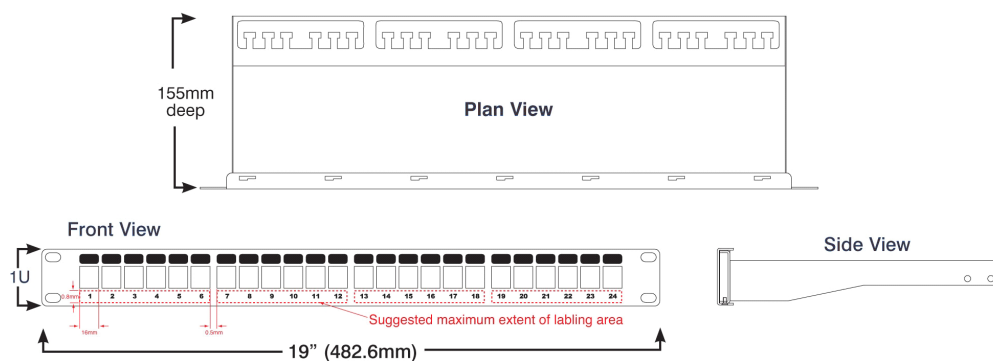
Feature	Values
Suitable for number of outlets / modules	24
Category	Keystone Jack dependent
Number of rack units (RU)	1
Colour	Chrome
Mounting method	19 inch mounting
Height	44 mm
Width	483 mm
Depth	155 mm

Excel Unloaded Keystone Patch Panel Frame - 24-port, 1U - Chrome

Item Code: 100-028



Product drawing



Standards

Applicable standard	Detail
RoHS	Restriction of Hazardous Substances - Compliant

Part Number Table

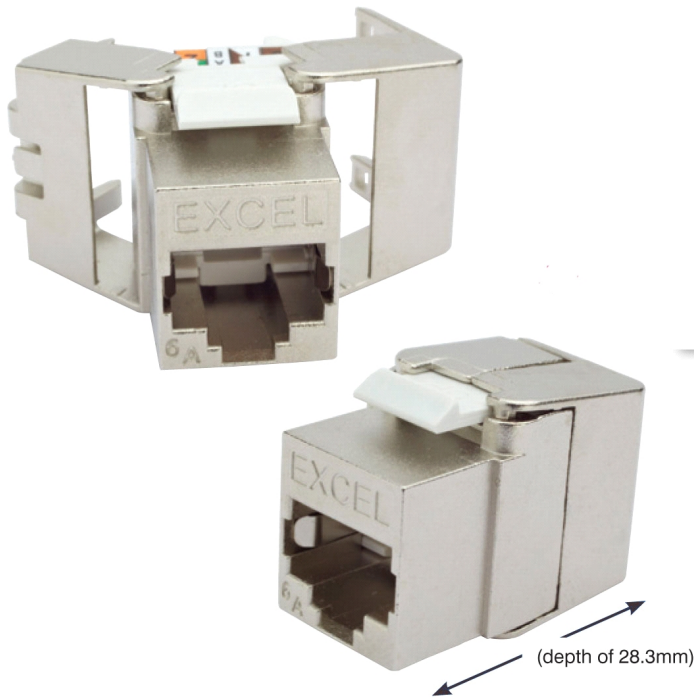
Part Number	Description
100-027	Excel Unloaded Keystone Patch Panel Frame - 16-port, 1U - Chrome
100-028	Excel Unloaded Keystone Patch Panel Frame - 24-port, 1U - Chrome

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✕ 25 Year System Warranty

✕ Low Profile - 28mm overall depth

✕ 360° Screen die cast housing

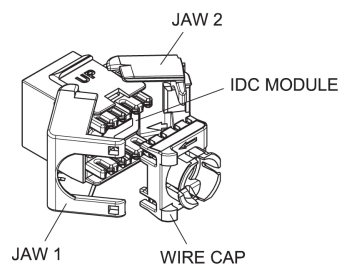
✕ Supports 10 Gigabit Ethernet

Features

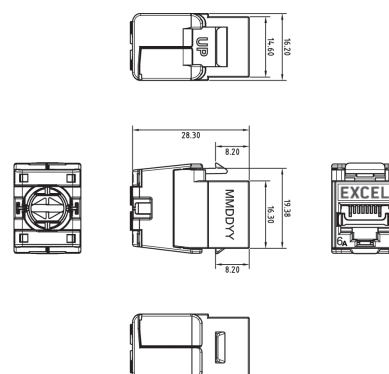
- 25 Year System Warranty
- 360° Screen die cast housing
- Toolless termination design
- 360° Shielding protects against alien crosstalk
- Low Profile - 28mm overall depth
- Supports 10 Gigabit Ethernet
- Lifetime Product Warranty
- 3rd Party ISO11801 2nd Edition verification

Product Overview

The Excel Category 6A Low Profile Screened Keystone Jack, is a reduced size toolless termination RJ45 socket. The reduced size allows for multiple cable entry directions to be accommodated when this jack is mounted in a standard depth back box. This permits many mounting options including flush shutters at the outlet as well as more common angled shutter used with keystone jacks. A choice of compatible Patch Panel frames with either 16 or 24 port density in both black and chrome are available for this Low Profile Jack. The socket itself is housed in a high quality zinc die cast housing, which opens at the rear in a butterfly manner to reveal the IDC termination points. Once the pairs are arranged in the cable management cap and trimmed it is a simple case of closing the 'butterfly' together to complete the termination.



A. Rear view of Keystone



B. Keystone profiles. Dimensions in mm

Performance Overview

The Excel Category 6A Low Profile Screened Keystone Jack is designed and manufactured to comply with the channel requirements of Augmented Category 6/Class EA specifications as defined in ISO 11801 2nd edition amend 1, and ANSI/TIA-568-C.2 standards. A range of performance characteristics are tested up to 500Mhz including return loss, attenuation, and near end cross talk (NEXT) and far end cross talk (FEXT). Both worst case and power sum test methods are applied. The product design incorporates staggered 50 micro-inch gold plated contact pins within the jack to ensure optimum performance levels are achieved, the die cast housing around the terminated pairs ensures Alien Crosstalk is minimised. Support of emerging applications such as 10 Gigabit Ethernet is guaranteed over channel distances of up to 100 metres. The Low Profile keystone jack is fully interoperable and backward compatible with Category 5e and Category 6 products.

Performance / Specification Table

Specification	ANSI/TIA-568-C.2
Dimensions	16.2mm wide x 28.3mm deep x 21.5mm high
Housing	Die cast Zinc-alloy
RJ45 Contacts	Nickel plated phosphor bronze alloy with 50 micro-inch Gold plating
IDC Contacts	Tin plated phosphor bronze alloy
IDC Wire Gauge	22 - 26 AWG
RJ45 Life	Minimum 750 insertions
Temperature range	
Storage	-40 to +70°C
Operation	-10 to +60°C
Relative humidity (Operational)	93% Maximum Non-condensing

Typical Applications

- 10Base-T Ethernet
- 100BASE-TX Fast Ethernet
- 1000BASE-T Gigabit Ethernet
- 10GBASE-T 10 Gigabit Ethernet
- Digital and Analogue Video
- 1.2/2.4 Gbs ATM

Part Number Information

Part No.	Description
100-181	Category 6A Low Profile Screened Keystone Jack - Toolless

System Warranty

The Excel System Warranty provides a 25-year product and applications assurance of compliance with the industry performance standard appropriate to the class of cabling installed. The warranty may be applied for by an accredited Excel Partner who has designed, supplied and installed the said system.



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✕ 25 Year System Warranty

✕ Enhanced Aesthetics

✕ Available in Office White & Charcoal Grey

Features

- 25 Year System Warranty
- Available in Office White & Charcoal Grey
- Euromod size
- Curved plate finish
- Available in Office White & Charcoal Grey
- Enhanced Aesthetics
- Enhanced Aesthetics
- Faceplates supplied with blanks
- No.2 cabling system by market share, as reported by BSRIA

Product Overview

The Excel Office Range brings style and enhanced aesthetics to any Excel installation, thanks to its curved plate finish and built in labelling fields. The portfolio includes Category 5e and Category 6 Low profile modules allowing installation in shallow back boxes and dado trunking. Additionally an angled keystone shutter is available that accepts the full range of Excel Category 5e, 6 and 6A keystone jacks. The Single and Double Gang faceplates are each supplied with two half (12.5 mm wide) blanks. In the case of the Single Gang Faceplate this allows a single jack or shutter to be mounted centrally in the aperture. The two half (12.5 mm wide) blanks supplied with the Double Gang Faceplate allows spacing options for mounting three jacks or shutters in the faceplate.

The range is available in Office White or Charcoal Grey. These two colour options permit the assembly of the telecommunication outlets to contrast with the wall finish if required to comply with the Equality Act 2010 and Part M of the Building Regulations. As all of the components are available in Office White & Charcoal Grey the telecommunications outlet can comprise of any combination:

- White Shutter / Module & White Faceplate
- Grey Shutter / Module & White Faceplate
- White Shutter / Module & Grey Faceplate
- Grey Shutter / Module & Grey Faceplate

	Office White	Charcoal Grey	
	100-270	100-270-GE	Excel Office Single Gang Faceplate complete with 2 half blanks
	100-271	100-271-GE	Excel Office Double Gang Faceplate complete with 2 half blanks
	100-280	100-280-GE	Excel Office Angled Keystone Shutter 25X50 mm

Specifications

Single Gang Faceplate - aperture size	50 mm wide x 50 mm high
- dimensions	85 mm wide x 85 mm high
- capacity	2 off 25 mm x 50 mm Euromod Jacks or Shutters
Double Gang Faceplate - aperture size	100 mm wide x 50 mm high
- dimensions	146 mm wide x 85 mm high
- capacity	4 off 25 mm x 50 mm Euromod Jacks or Shutters

Material:	ABS High-Impact UL94V-0 Thermoplastic
Light Reflective Value (LRV)	approx 40 % (Charcoal Grey)
Operating Temperature Range:	-10°C to 60°C
Storage Temperature Range:	-40°C to 68°C
Relative Humidity:	10%-90% non-condensing

Part Number Information - Office White

Part No.	Description
100-270	Office Single Gang Faceplate Complete with 2 Half Blanks - White
100-271	Office Double Gang Faceplate Complete with 2 Half Blanks - White
100-275	Category 5e Office Unscreened Module - Low Profile - White
100-276	Category 6 Office Unscreened Module - Low Profile - White
100-280	Office Angled Keystone Shutter - 25mm x 50mm - White

Part Number Information - Charcoal Grey

Part No.	Description
100-270-GE	Office Single Gang Faceplate Complete with 2 Half Blanks - Grey
100-271-GE	Office Double Gang Faceplate Complete with 2 Half Blanks - Grey
100-275-GE	Category 5e Office Unscreened Module - Low Profile - Grey
100-276-GE	Category 6 Office Unscreened Module - Low Profile - Grey
100-280-GE	Office Angled Keystone Shutter - 25mm x 50mm - Grey

Related Products

Part No.	Description
35-480	Punchdown tool, BT reference 2A

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✕ Management of patch leads

✕ 1U & 2U sizes

✕ Metal or Plastic management hoops

✕ Black or Chrome finish

✕ Available with 3, 4 or 5 Rings

✕ 68mm or 100mm depth available

Features

- Management of patch leads
- Metal or Plastic management hoops
- Horizontal and Vertical Hoops
- 68mm or 100mm depth available
- 1U & 2U sizes
- Black or Chrome finish
- Available with 3, 4 or 5 Rings
- Cage Nut Set included

Product Overview

A range of cable management bars designed to fit in standard 19" racks and cabinets. The range includes a choice of metal or plastic management hoops in either 1U or 2U high size. Chrome and black versions available, with 3, 4 or 5 hoops in 2 sizes - 68mm deep and 100mm deep. See part number table for options.

100-031 is 1U high in Chrome finish with 5 vertical steel hoops of 68mm depth

100-582 is 1U high in Black finish with 4 vertical steel hoops of 68mm depth

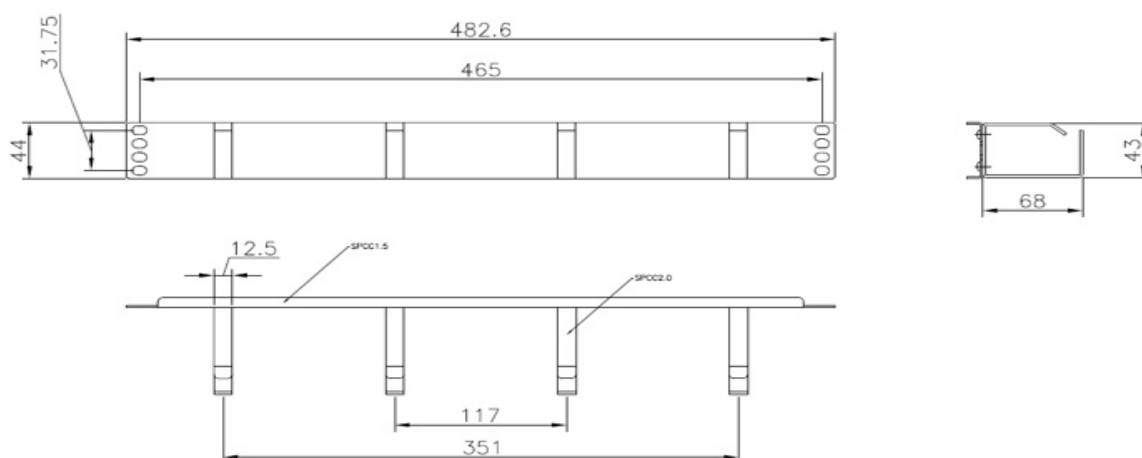
100-583 is 1U high in Black finish with 5 vertical steel hoops of 100mm depth

100-586 is 1U high in Black finish with 5 vertical Plastic hoops of 68mm depth

100-590 is 1U high in Black finish with 3 vertical and 2 horizontal steel hoops of 68mm depth

100-594 is 2U high in Black finish with 4 vertical steel hoops of 68mm depth

Product Drawing



110-582 Excel 1U Cable Management Bar, 4 Vertical Metal Hoops, Black (RAL 9004) - Painted Steel

Part Number Information

Part No.	Description
100-031	Cable Management Bar 5 Way - 1U - Chrome
100-582	Cable Management Bar - 1U Bar Cable Management Bar 4 Vertical Metal Hoops - 65mm - Black
100-583	Cable Management Bar - 1U - Bar Cable Management Bar 5 Vertical Metal Hoops - 100mm - Black
100-586	Cable Management Bar - 1U - Black Bar Cable Management Bar 5 Vertical Plastic Hoops 65mm
100-590	Cable Management Bar Management Trough 3 Vertical 2 Horizontal Metal Hoops - Black
100-594	Cable Management Bar - 2U Black Bar Cable Management Bar 4 Vertical Metal Hoops 65mm

System Warranty

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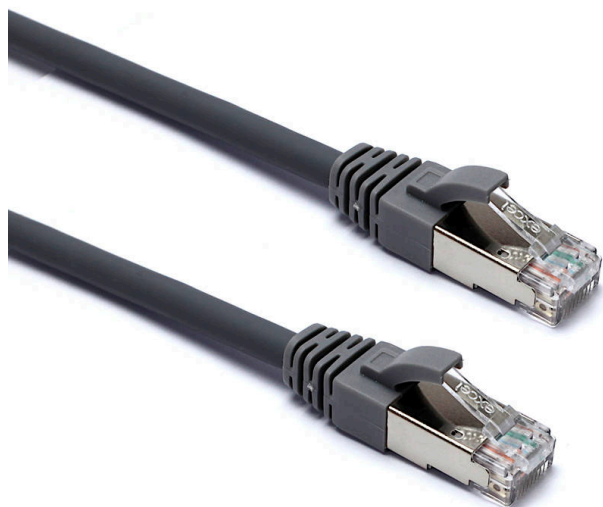
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Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 3 m Grey

Item Code: 100-153

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✕ Specified to 500MHz

✕ Suitable for 10 Gigabit 10GBase-T, POE++ applications

✕ Individual foil screen over each pair

✕ Blade style moulded strain relief boot with clip protector

✕ Choice of length and colour

✕ LSOH outer sheath

Product Overview

Excel Category 6A (Augmented Category 6) patch leads take the performance capabilities of copper infrastructure to new levels. Designed to the current ISO and EIA/TIA standards for Class Ea augmented Category 6A performance these products are intended to deliver reliable, high network performance including support of emerging applications such as 10GBase-T, 10 Gigabit Ethernet.

Each Excel Category 6A patch lead consists of 4 twisted pairs of 26AWG stranded copper wires, an aluminium/polyester foil tape provides an individual screen for each pair. These pairs are then cabled together, with different lay lengths to ensure optimum performance. Staggered pin RJ45 Screened plugs, terminate the cable, and each lead is fitted with colour coded slimline moulded boots, suitable for use in high density router or switch blades.

Product Specifications

Feature	Values
Cable type	F/FTP
Category	6A (IEC)
Length	3 m
Type of connector connection 1	RJ45 8(8)
Type of connector connection 2	RJ45 8(8)
Outer sheath colour	Grey
Strain relief boot	Moulded-on
Lockable	no

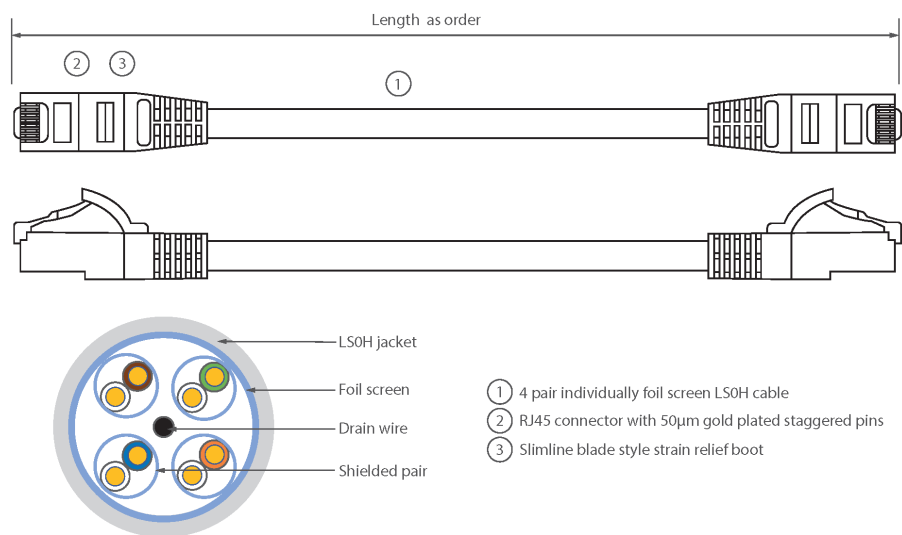
Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade
Booted 3 m Grey

Item Code: 100-153



Strain relief boot colour	Grey
Flame retardant version	yes
Halogen free	yes
Cable construction	1x4
AWG-size	26
Pin assignment	1:1

Product drawing



Standards

Applicable standard	Detail
ISO/IEC 11801-1:2017	Information technology - Generic cabling for customer premises: Part 1 General Requirements
EN 50173-1:2018	Information technology. Generic cabling systems - General requirements
ANSI/TIA 568-2.D	Balanced Twisted-Pair Telecommunications Cabling and Components Standards
IEC 61156-5:2009+AMD1:2012 CSV	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

Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 3 m Grey

Item Code: 100-153



IEC 60332-1-2:2004

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

IEC 61034-2:2005+A1:2013

Measurement of smoke density of cables burning under defined conditions – Part 2: Test procedure and requirements

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)

Part Number Table

Part Number	Description
100-142	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.75 m Grey
100-148	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1 m Grey
100-149	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 4 m Grey
100-152	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 2 m Grey
100-153	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 3 m Grey
100-154	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 5 m Grey
100-157	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 2 m Blue
100-158	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 3 m Blue
100-159	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1 m Blue
100-160	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 5 m Blue
100-161	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1 m Red
100-162	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 2 m Red
100-163	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 3 m Red
100-165	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 5 m Red
100-166	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1 m Yellow
100-167	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 2 m Yellow
100-168	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 3 m Yellow
100-170	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 5 m Yellow

Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 3 m Grey

Item Code: 100-153



100-171	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 2 m Green
100-172	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 3 m Green
100-173	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1 m Green
100-174	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 5 m Green
100-176	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.5 m Grey
100-177	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 10 m Grey
100-178	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 7 m Grey
100-220	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.5m Blue
100-221	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.5m Red
100-222	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.5 m Yellow
100-223	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.5 m Green
100-224	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.5 m White
100-225	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.5m Black
100-226	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.5m Pink
100-227	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.5 m Orange
100-228	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.5 m Violet
100-238	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1 m White
100-239	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1 m Black
100-240	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1 m Pink
100-241	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1 m Orange
100-242	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1 m Violet
100-244	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 2 m White
100-245	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 2 m Black
100-246	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 2 m Pink
100-247	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 2 m Orange
100-248	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 2 m Violet
100-250	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 3 m White
100-251	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 3 m Black
100-252	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 3 m Pink
100-253	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 3 m Orange
100-254	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 3 m Violet
100-256	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 5 m White

Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 3 m Grey

Item Code: 100-153



100-257	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 5 m Black
100-258	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 5 m Pink
100-259	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 5 m Orange
100-260	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 5 m Violet
100-261	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 10 m Blue
100-262	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 10 m Red
100-263	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 10 m Yellow
100-264	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 10 m Green
100-265	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 15 m Grey
100-266	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 15 m Blue
100-267	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 15 m Red
100-268	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 15 m Yellow
100-269	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 15 m Green
100-279	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 10 m White
100-543	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 20 m Grey
100-544	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 20 m Blue
100-545	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 20 m Red
100-546	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 20 m Yellow
100-547	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 20 m Green
100-611	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 20 m White
101-130	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.3m Grey
101-131	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.3m Blue
101-132	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.3 m Red
101-133	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.3 m Yellow
101-134	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.3 m Green
101-135	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.3m White
101-136	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.3m Black
101-137	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.3m Pink
101-138	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.3 m Orange
101-139	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.3 m Violet
101-140	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1.5 m Grey
101-141	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1.5 m Blue

Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 3 m Grey

Item Code: 100-153



101-142	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1.5 m Red
101-143	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1.5 m Yellow
101-144	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1.5 m Green
101-145	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1.5 m White
101-146	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1.5 m Black
101-147	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1.5 m Pink
101-148	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1.5 m Orange
101-149	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1.5 m 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

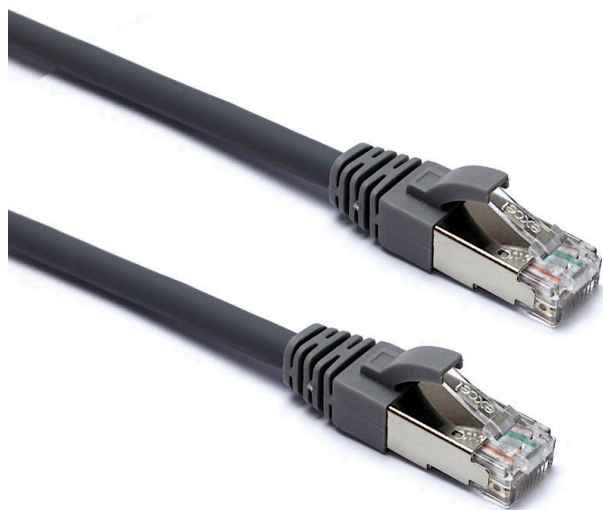


E&OE. Excel is a registered trade name of Mayflex Holdings Ltd.

Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1 m Grey

Item Code: 100-148

excel
without compromise.



✕ Specified to 500MHz

✕ Suitable for 10 Gigabit 10GBase-T, POE++ applications

✕ Individual foil screen over each pair

✕ Blade style moulded strain relief boot with clip protector

✕ Choice of length and colour

✕ LSOH outer sheath

Product Overview

Excel Category 6A (Augmented Category 6) patch leads take the performance capabilities of copper infrastructure to new levels. Designed to the current ISO and EIA/TIA standards for Class Ea augmented Category 6A performance these products are intended to deliver reliable, high network performance including support of emerging applications such as 10GBase-T, 10 Gigabit Ethernet.

Each Excel Category 6A patch lead consists of 4 twisted pairs of 26AWG stranded copper wires, an aluminium/polyester foil tape provides an individual screen for each pair. These pairs are then cabled together, with different lay lengths to ensure optimum performance. Staggered pin RJ45 Screened plugs, terminate the cable, and each lead is fitted with colour coded slimline moulded boots, suitable for use in high density router or switch blades.

Product Specifications

Feature	Values
Cable type	F/FTP
Category	6A (IEC)
Length	1 m
Type of connector connection 1	RJ45 8(8)
Type of connector connection 2	RJ45 8(8)
Outer sheath colour	Grey
Strain relief boot	Moulded-on
Lockable	no

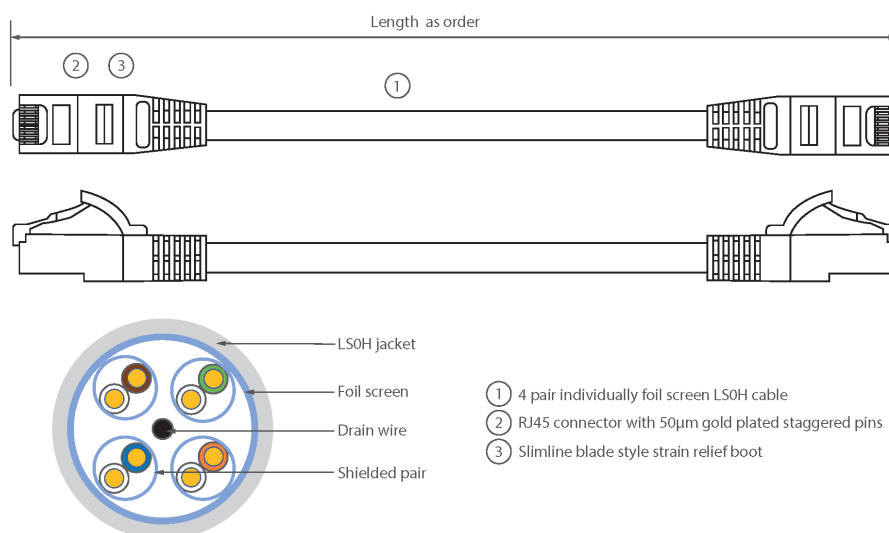
Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1 m Grey

Item Code: 100-148



Strain relief boot colour	Grey
Flame retardant version	yes
Halogen free	yes
Cable construction	1x4
AWG-size	26
Pin assignment	1:1

Product drawing



Standards

Applicable standard	Detail
ISO/IEC 11801-1:2017	Information technology - Generic cabling for customer premises: Part 1 General Requirements
EN 50173-1:2018	Information technology. Generic cabling systems - General requirements
ANSI/TIA 568-2.D	Balanced Twisted-Pair Telecommunications Cabling and Components Standards
IEC 61156-5:2009+AMD1:2012 CSV	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

Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1 m Grey

Item Code: 100-148



IEC 60332-1-2:2004

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

IEC 61034-2:2005+A1:2013

Measurement of smoke density of cables burning under defined conditions – Part 2: Test procedure and requirements

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)

Part Number Table

Part Number	Description
100-142	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.75 m Grey
100-148	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1 m Grey
100-149	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 4 m Grey
100-152	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 2 m Grey
100-153	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 3 m Grey
100-154	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 5 m Grey
100-157	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 2 m Blue
100-158	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 3 m Blue
100-159	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1 m Blue
100-160	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 5 m Blue
100-161	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1 m Red
100-162	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 2 m Red
100-163	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 3 m Red
100-165	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 5 m Red
100-166	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1 m Yellow
100-167	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 2 m Yellow
100-168	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 3 m Yellow
100-170	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 5 m Yellow

Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1 m Grey

Item Code: 100-148



100-171	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 2 m Green
100-172	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 3 m Green
100-173	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1 m Green
100-174	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 5 m Green
100-176	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.5 m Grey
100-177	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 10 m Grey
100-178	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 7 m Grey
100-220	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.5m Blue
100-221	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.5m Red
100-222	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.5 m Yellow
100-223	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.5 m Green
100-224	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.5 m White
100-225	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.5m Black
100-226	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.5m Pink
100-227	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.5 m Orange
100-228	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.5 m Violet
100-238	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1 m White
100-239	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1 m Black
100-240	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1 m Pink
100-241	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1 m Orange
100-242	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1 m Violet
100-244	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 2 m White
100-245	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 2 m Black
100-246	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 2 m Pink
100-247	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 2 m Orange
100-248	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 2 m Violet
100-250	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 3 m White
100-251	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 3 m Black
100-252	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 3 m Pink
100-253	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 3 m Orange
100-254	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 3 m Violet
100-256	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 5 m White

Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1 m Grey

Item Code: 100-148



100-257	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 5 m Black
100-258	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 5 m Pink
100-259	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 5 m Orange
100-260	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 5 m Violet
100-261	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 10 m Blue
100-262	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 10 m Red
100-263	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 10 m Yellow
100-264	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 10 m Green
100-265	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 15 m Grey
100-266	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 15 m Blue
100-267	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 15 m Red
100-268	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 15 m Yellow
100-269	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 15 m Green
100-279	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 10 m White
100-543	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 20 m Grey
100-544	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 20 m Blue
100-545	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 20 m Red
100-546	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 20 m Yellow
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101-130	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.3m Grey
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101-132	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.3 m Red
101-133	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.3 m Yellow
101-134	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.3 m Green
101-135	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.3m White
101-136	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.3m Black
101-137	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.3m Pink
101-138	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.3 m Orange
101-139	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 0.3 m Violet
101-140	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1.5 m Grey
101-141	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1.5 m Blue

Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1 m Grey

Item Code: 100-148



101-142	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1.5 m Red
101-143	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1.5 m Yellow
101-144	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1.5 m Green
101-145	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1.5 m White
101-146	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1.5 m Black
101-147	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1.5 m Pink
101-148	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1.5 m Orange
101-149	Excel Cat6A Patch Lead F/FTP Shielded LSOH Blade Booted 1.5 m Violet

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Excel Accreditation Certificate

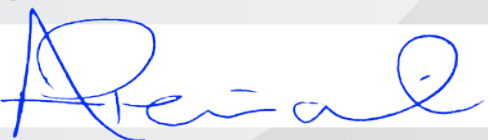
Dataflow Network Installations Limited

Has successfully completed the
Excel Partner Accreditation Course

and are now an accredited Excel Cabling Partner and authorised to
provide a 25 year product and application warranty.

Excel Registration Number: XL-3362

Signed on behalf of Excel:



Andrew Percival, Managing Director

Date:

Mar 2022