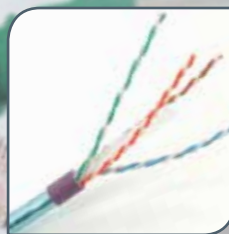


FOPTRONICS

Copper Structured Cabling Solutions



ABOUT OPTRONICS

About Us

Optronics is a brand of fibre optic and copper networking products, for use in local and wide area networking and telecommunications applications.

Since 1974, Optronics has used it's expertise to build a comprehensive range of high quality network communications products which includes patch cords, pigtails (multimode and singlemode), patch panels, wall and splice boxes (unloaded and customised), and a full range of accessories.

Based in Milton Keynes, UK, we have the facilities to support a vast array of customers; from small distributors and supporting specialist installers.

Optronics products are available directly or from distributors all over the world.

Our History

- > Optronics founded in 1974
- > Established a Base in Milton Keynes, which is central to all the major UK national and international transport hubs
- > Moved to a purpose built building in 2002

Our Capabilities

- > Multilingual sales personnel
- > Largest termination capacity in Europe
- > Manufacturing across two continents
- > Several partnerships globally
- > Proactively aiding our clients to secure new and existing customers through designing and manufacturing bespoke products in necessary quantities

A Global Company

- > 120 Sales Executives employed
- > 18 Languages spoken
- > 24 hour design and engineering support capability
- > Global logistics service
- > Regions Covered
 - North South America
 - Europe
 - Africa
 - Middle East
 - Australasia
- > Optronics Limited. is registered in England and has regional offices in each major continent in the world.



Optronics Global HQ, Milton Keynes, UK



Optronics

Copper Structured Cabling Solutions

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The Optronics Cabling System Warranty Explained:



At Optronics we offer one of the most complete warranty programmes available to the structured cabling industry. Our copper and fibre solutions are designed for performance and reliability and manufactured to comply with the latest national and international standards at the time of installation.

Optronics products exceed the performance requirements defined within ISO/IEC 11801, ANSI/EIA/TIA 568 and EN 50173 as applicable, and are warranted against failure for a period of 25 years from the date of installation. Furthermore, Optronics warranty that if the components are installed and tested by an Optronics approved partner, then the installed link will support,

- > The Optronics Cabling System Warranty is only available through Authorised Partners and Authorised Installers.
- > The Optronics Cabling System 25 year product and lifetime applications warranty commences upon completion of the installation the submission of the test results and the issue of the warranty certificate to the installation owner by Optronics.
- > Product Warranty: - All Optronics products are warranted for a period of 25 years as being free from manufacturing defects that could jeopardise the mechanical, electrical or transmission line performance and reliability of the product when used appropriately.

for the lifetime of the installation, all applications that have been designed to run on the specific class/category of cabling system.

The Optronics copper and fibre structured cabling range represents the relentless pursuit by Optronics to bring quality and reliability to the market. Through world class engineering, we have confidence to stand behind our products for 25 years, in the full knowledge that they will continue to faultlessly delivering the applications for the which they were designed, for a life-time.

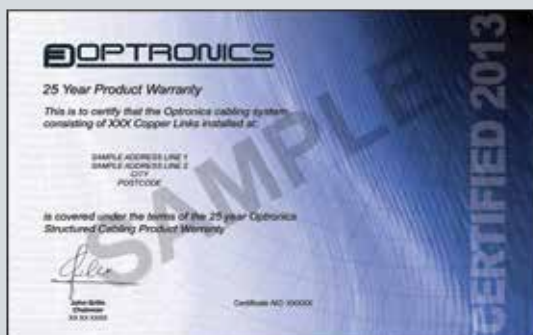
- > The Optronics Cabling System Warranty covers all passive optical and copper products supplied by Optronics under the Optronics brand.
- > Applications Warranty - All Optronics products are warranted to support all and any application designed to operate over installed class of cabling system. In case of doubt a specific application reference should be made to ISO 11801, latest edition.
- > The Optronics Cabling System warranty can be transferred for the remaining life of the warranted products providing that Optronics is notified by the new building owner in writing within 30 days of taking ownership of the building.

Limitations of the Warranty

This Warranty only covers the Installation as defined in the submitted dossier and specification. Any extensions or modifications to the Installation must be submitted to Optronics following the procedure listed in our warranty documentation. On review and acceptance, a new Certificate and Schedule will be issued.

Becoming an Authorised Installer

- > Certification as an Authorised Installer must happen prior to project award. Any proposal that cannot be supported with the necessary training records will be rejected.
- > A potential Authorised Installer must be proposed by the Authorised Partner. The proposal should be supported by the completion of Appendix II of our detail warranty statement.
- > Upon satisfactory review of the potential installers details acceptance will be acknowledged by Optronics through the issue of a numbered authorised Installer certificate.



Optronics Copper Cabling System

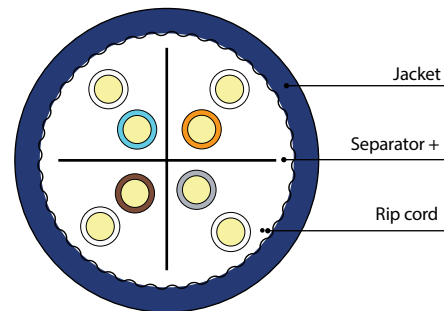
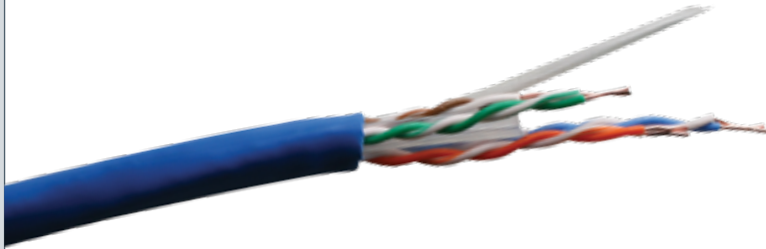
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Optronics Copper Cabling System

Category 6_A

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Category 6_A UTP Cable



Category 6_A Unshielded Twisted Pair (UTP) cable is produced using a 4 x 2 x 23 AWG copper wire structure to a class EA

standard, and supports protocol's up to 500 MHz. It is ideal for horizontal and backbone installations.

Features

- > 23 AWG conductor (0.57mm) – solid bare copper cable
- > PVC (LSZH and PE options - available on request)
- > Supplied in 305m boxes or 500m reels
- > Printed metre marks

Applications

- > Supports category 6_A networks running up to 500 MHz applications
- > Horizontal and backbone installations
- > 10 Base T (IEEE 802.3)
- > 100 Base T (IEEE 802.3U)
- > 1000 Base T (IEEE 802.3ab)
- > 100 VG any LAN (IEEE 802.12)
- > Token ring (IEEE 805.5)
- > ATM 155
- > 10G Base T (IEEE 802.3an)

Conformance

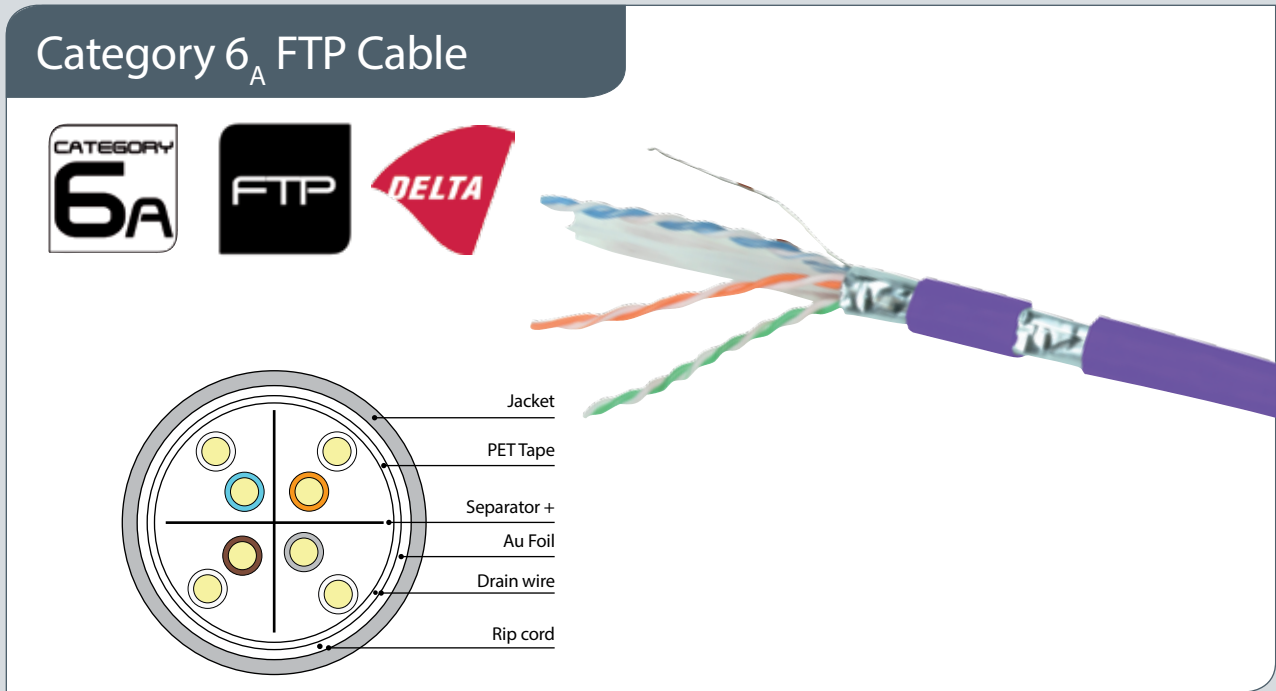
- > Category 6_A
- > EIA/TIA 568B.2 : 2002
- > ISO/IEC 11801 : 2002
- > REACH

Technical Specifications

CONSTRUCTION		VALUE
Conductors	AWG	23
	Size (mm)	0.570
	Material	Solid Bare Copper
Insulators	Diameter (mm)	1.01 ± 0.02
	Material	HDPE
Jacket	External O.D.	6.9 ± 0.3
	Thickness (mm)	0.65 ± 0.05
	Surface	Clean, Frap, Satiation
	Material	PVC / LSZH / PE

Ordering Information

DESCRIPTION	PART NUMBER
Category 6 _A Unshielded Twisted Pair (UTP) PVC 23 AWG cable - 305m Box	UTP6A305PVC
Category 6 _A Unshielded Twisted Pair (UTP) LSZH 23 AWG cable - 305m Box	UTP6A305LSZH
Category 6 _A Solid Unshielded Twisted Pair (UTP) 23 AWG cable 305m - Reels	UTP6A305PE
Category 6 _A Unshielded Twisted Pair (UTP) PVC 23 AWG cable - 500m Box	UTP6A500PVC
Category 6 _A Unshielded Twisted Pair (UTP) LSZH 23 AWG cable - 500m Box	UTP6A500LSZH
Category 6 _A solid Unshielded Twisted Pair (UTP) 23 AWG cable - 500m - Reels	UTP6A500PE



Category 6_A Foiled Twisted Pair (FTP) cable is produced using a 4 x 2 x 23 AWG copper wire structure to a class EA standard, and

supports protocol's up to 500 MHz. It is ideal for horizontal and backbone installations.

Features

- > 23 AWG conductor (0.57mm) – solid bare copper cable
- > PVC (LSZH and PE options - available on request)
- > Supplied in 305m boxes or 500m reels
- > Printed metre marks

Conformance

- > Category 6_A
- > EIA/TIA 568B.2 : 2002
- > ISO/IEC 11801 : 2002
- > RoHS / REACH

Applications

- > Supports category 6_A networks running up to 500 MHz applications
- > Ideal for environments where heavy external interference can disrupt signal such as EMI
- > Horizontal and backbone installations
- > 10 Base T (IEEE 802.3)

- > 100 Base T (IEEE 802.3U)
- > 1000 Base T (IEEE 802.3ab)
- > 100 VG any LAN (IEEE 802.12)
- > Token ring (IEEE 805.5)
- > ATM 155
- > 10G Base T (IEEE 802.3an)

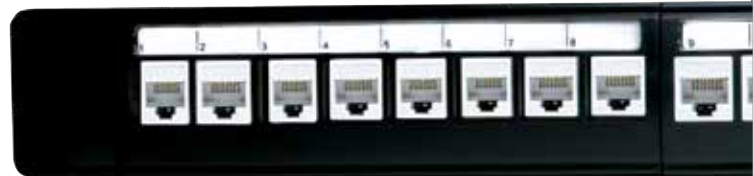
Ordering Information

DESCRIPTION	PART NUMBER
Category 6 _A Foiled Twisted Pair (FTP) PVC - 23 AWG cable - 305m Box	FTP6A305PVC
Category 6 _A Foiled Twisted Pair (FTP) LSZH - 23 AWG cable - 305m Box (Delta Approved)	FTP6A305LSZH
Category 6 _A solid Foiled Twisted Pair (FTP) 23 AWG cable - 305m Box	FTP6A305PE
Category 6 _A Foiled Twisted Pair (FTP) PVC 23 AWG cable - 500m Box	FTP6A500PVC
Category 6 _A Foiled Twisted Pair (FTP) LSZH 23 AWG cable - 500m Box (Delta Approved)	FTP6A500LSZH
Category 6 _A solid Foiled Twisted Pair (FTP) 23 AWG cable - 500m Box	FTP6A500PE

Technical Specifications

CONSTRUCTION	VALUE	
Conductors	AWG	23
	Size (mm)	0.570
	Material	Solid Bare Copper
Insulators	Diameter (mm)	1.09 ± 0.02
	Material	HDPE
Jacket	External O.D.	7.4 ± 0.3
	Thickness (mm)	0.60 ± 0.05
	Surface	Clean, Frap, Satiation
	Material	PVC / LSZH / PE

Category 6_A UTP Keystone Jack Patch Panel



Category 6_A Unshielded Twisted Pair (UTP) tool free patch panels conform to class EA performance. These panels offer termination using the latest in tool free keystone jack technology. The use of an insertion tool is not required when terminating these panels.

All 8 wires can be loaded and terminated simultaneously, drastically reducing installation time. Available in 1U 24 port format, panels are supplied fully loaded with rear management bars and fixings.

Features

- > RJ45 24 port fully loaded 1U Panel
- > Saves valuable installation time
- > Supplied with fixings
- > Loaded with 180° tool free keystone jacks
- > 19" rack mountable
- > Rear cable management bar included
- > Port numerically identified

Conformance

- > Category 6_A
- > EIA/TIA 568A/B wiring standard
- > ISO/IEC 11801 : 2002
- > ANSI/EIA/TIA 568B.2 : 2002

Applications

- > Supports category 6_A networks running up to 500 MHz applications
- > Able to connect FCC Port for category 6_A UTP patch cords
- > IDC for horizontal distribution cables

Ordering Information

DESCRIPTION	PART NUMBER
Category 6 _A UTP Full Loaded 1U 24 Port patch panel Black	CAT6AUTP24

Technical Specifications

MECHANICAL	VALUE
Housing Material	PC UL94V-0
Panel Frame	Carbon Steel Frame, Plastic Coated Clad
IDC Material	Phosphor Bronze Stamp Pin 0.35mm
Contact Material	Phosphor Bronze + Gold Plating 0.50mm
RJ45 Jack Life	Min 750 Insertions
IDC Life	Min 250 Terminations

Category 6_A STP Tool Free Panel



Category 6_A Shielded Twisted Pair (STP) tool free patch panels conform to class EA performance. These panels offer termination using the latest in tool free keystone jack technology. The use of an insertion tool is not required when termination these panels.

All 8 wires can be loaded and termination simultaneously, drastically reducing installation time. Available in 1U 24 port format, panels are supplied fully loaded with rear management bars and fixings.

Features

- > RJ45 24 port fully loaded 1U Panel
- > Saves valuable installation time
- > Supplied with fixings
- > Loaded with 180° tool free keystone jacks
- > 19" rack mountable
- > Rear cable management bar included
- > Port numerically identified

Applications

- > Supports category 6_A networks running up to 500 MHz applications
- > Able to connect FCC port for category 6_A STP patch cords
- > IDC for horizontal distribution cables

Conformance

- > Category 6_A
- > EIA/TIA 568A/B wiring standard
- > ISO/IEC 11801 : 2002
- > EIA/TIA 568B.2 : 2002
- > RoHS

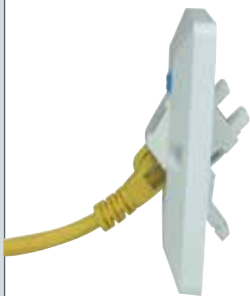
Technical Specifications

MECHANICAL	VALUE
Housing Material	PC UL94V-0
Panel Frame	High carbon, Plastic Powder Clad
IDC Material	Phosphor Bronze Stamp Pin 0.35mm
Contact Material	Phosphor Bronze + Gold Plating 0.50mm
RJ45 Jack Life	Min 750 Insertions
IDC Life	Min 200 Terminations

Ordering Information

DESCRIPTION	PART NUMBER
Category 6 _A STP Full Loaded 1U 24 Port patch panel Black	CAT6ASTP24TJ

Category 6_A UTP Keystone Jack



Representative image of a loaded angled module with a category 6_A UTP keystone jack (please note angled module is sold separately).



Category 6_A Unshielded Twisted Pair (UTP) keystone jacks conform to class EA performance. They follow the industry standard keystone jack footprint and the small design makes

them the ideal for high density applications. Each keystone jack is available with wiring diagram and conductor protection cap and can be supplied in black or white variants.

Technical Specifications

MECHANICAL	VALUE
Housing Material	PC UL94V-0
IDC Material	Phosphor Bronze Stamp Pin 0.35mm
Contact Material	Phosphor Bronze + Gold Plating 0.50mm
RJ45 Jack Life	Min 750 Insertions
IDC Life	Min 250 Terminations

Features

- > Small form RJ45 footprint design
- > IDC punch down
- > 180° termination
- > High performance
- > Available in black/white
- > Wiring diagram and conductor cap supplied
- > Supplied in boxes of 20pcs
- > A compact design, with punching sequence direction marks on the side of the keystone jack

Applications

- > Supports category 6_A networks running up to 500 MHz applications
- > Ideal for high density installations

Conformance

- > Category 6_A
- > ISO/IEC 11801 : 2002
- > ANSI/EIA/TIA 568B.2 : 2002
- > RoHS

Ordering Information

DESCRIPTION	PART NUMBER
Category 6 _A UTP keystone jack White Box of 20pcs	CAT6AJACK180WH
Category 6 _A UTP keystone jack Black Box of 20pcs	CAT6AJACK180BK

Category 6_A UTP Bevelled Loaded Faceplates



FACEPLATE2PBEV
Single gang - 2 position
86x86mm - Box of 10pcs



CAT6AFACE1PBEVJ
Angled module and jack
86x86mm - Box of 10pcs



CAT6AFACE2PBEVJ
Angled module and jack
86x86mm - Box of 10pcs



FACEPLATE4PBEV
Double gang - 4 position
86x147mm - Box of 10pcs



CAT6AFACE4PBEVJ
Angled module and jack
86x147mm - Box of 10pcs



ANGLEDMODULE
Box of 20pcs



SINGLEBLANK
50x12.5mm
Box of 100pcs



HALFBLANK
50x25mm
Box of 50pcs



All loaded faceplates include this style of keystone jack

Features

- > Fully loaded / completed outlets
- > Reduced installation time
- > Wiring diagram and mini cable tie supplied
- > Supplied in boxes of 10pcs
- > Fixing screws, labelling supplied

Applications

- > Supports category 6_A networks running up to 500 MHz applications
- > Backwards compatible with category 6 distribution systems

Conformance

- > Category 6_A
- > ISO/IEC 11801 : 2002
- > ANSI/EIA/TIA 568B.2 : 2002
- > RoHS

Technical Specifications

MECHANICAL	VALUE
Housing Material	PC UL94V-0
IDC Material	Phosphor Bronze Stamp Pin 0.35mm
Contact Material	Phosphor Bronze + Gold Plating 0.50mm
RJ45 Jack Life	Min 750 Insertions
IDC Life	Min 250 Terminations

Category 6_A UTP Flat Loaded Faceplates



FACEPLATE2PFLAT
Single gang - 2 position
86x86mm - Box of 10pcs



CAT6AFACE1PFLTJ
Angled module and jack
86x86mm - Box of 10pcs



CAT6AFACE2PFLTJ
Angled module and jack
86x86mm - Box of 10pcs



FACEPLATE4PFLAT
Double gang - 4 position
86x147mm - Box of 10pcs



CAT6AFACE4PFLTJ
Angled module and jack
86x147mm - Box of 10pcs

Features

- > Fully loaded / completed outlets
- > Reduced installation time
- > Wiring diagram and mini cable tie supplied
- > Supplied in boxes of 10pcs
- > Fixing screws, labelling supplied

Applications

- > Supports category 6_A networks running up to 500 MHz applications
- > Backwards compatible with category 6 distribution systems

Conformance

- > Category 6_A
- > ISO/IEC 11801 : 2002
- > ANSI/EIA/TIA 568B.2 : 2002
- > RoHS

Technical Specifications

MECHANICAL	VALUE
Housing Material	PBT + 15% GF UL94V-0
IDC Material	Phosphor Bronze Stamp Pin 0.35mm
Contact Material	Phosphor Bronze + Gold Plating 0.50mm
RJ45 Jack Life	Min 750 Insertions
IDC Life	Min 250 Terminations



FACEPLATE1SL
86x86mm - Box of 10pcs



FACEPLATE2SL
86x86mm - Box of 10pcs



ANGLEDMODULE
Box of 20pcs



All loaded faceplates include this style of keystone jack



HALFBLANK
50x25mm
Box of 50pcs



SINGLEBLANK
50x12.5mm
Box of 100pcs



Category 6_A Shielded Twisted Pair (STP) keystone jacks conform to class EA performance. They follow the industry standard RJ45 jack footprint, the small form design making them

perfect for high density applications. Each keystone jack is available with 180° termination design, wiring diagram and conductor protection cap.

Features

- > Small form RJ45 footprint design
- > IDC punch down
- > 180° termination
- > High performance
- > Wiring diagram and conductor cap supplied
- > Supplied in boxes of 20pcs
- > A compact design, with punching sequence direction marks on the side of the keystone jack

Applications

- > Supports category 6_A networks running up to 500 MHz applications
- > Ideal for high density installations

Conformance

- > Category 6_A
- > ISO/IEC 11801 : 2002
- > ANSI/EIA/TIA 568B.2 : 2002
- > RoHS

Technical Specifications

MECHANICAL	VALUE
Housing Material	PC UL94V-0
IDC Material	Phosphor Bronze Stamp Pin 0.35mm
Contact Material	Phosphor Bronze + Gold Plating 0.50mm
RJ45 Jack Life	Min 750 Insertions
IDC Life	Min 250 Terminations

Ordering Information

DESCRIPTION	PART NUMBER
Category 6 _A STP keystone jack - Box of 20pcs	CAT6ASTPTJ

Category 6_A STP Bevelled Loaded Faceplates



FACEPLATE2PBEV
Single gang - 2 position
86x86mm - Box of 10pcs



CAT6AFACE1PBEVJ
Angled module and jack
86x86mm - Box of 10pcs



CAT6AFACE2PBEVJ
Angled module and jack
86x86mm - Box of 10pcs



FACEPLATE4PBEV
Double gang - 4 position
86x147mm - Box of 10pcs



CAT6AFACE4PBEVJ
Angled module and jack
86x147mm - Box of 10pcs



ANGLEDMODULE
Box of 20pcs



SINGLEBLANK
50x12.5mm
Box of 100pcs



HALFBLANK
50x25mm
Box of 50pcs



All loaded faceplates include this style of keystone jack

Features

- > Fully loaded / completed outlets
- > Reduced installation time
- > Wiring diagram and mini cable tie supplied
- > Supplied in boxes of 10pcs
- > Fixing screws, labelling supplied

Applications

- > Supports category 6_A networks running up to 500 MHz applications
- > Backwards compatible with category 6 distribution systems

Conformance

- > Category 6_A
- > ISO/IEC 11801 : 2002
- > ANSI/EIA/TIA 568B.2 : 2002
- > RoHS

Technical Specifications

MECHANICAL	VALUE
Housing Material	PC UL94V-0
IDC Material	Phosphor Bronze Stamp Pin 0.35mm
Contact Material	Phosphor Bronze + Gold Plating 0.50mm
RJ45 Jack Life	Min 750 Insertions
IDC Life	Min 250 Terminations

Category 6_A STP Flat Loaded Faceplates



FACEPLATE2PFLAT
Single gang - 2 position
86x86mm - Box of 10pcs



CAT6AFACE1PFLTJ
Angled module and jack
86x86mm - Box of 10pcs



CAT6AFACE2PFLTJ
Angled module and jack
86x86mm - Box of 10pcs



FACEPLATE4PFLAT
Double gang - 4 position
86x147mm - Box of 10pcs



CAT6AFACE4PFLTJ
Angled module and jack
86x147mm - Box of 10pcs

Features

- > Fully loaded / completed outlets
- > Reduced installation time
- > Wiring diagram and mini cable tie supplied
- > Supplied in boxes of 10pcs
- > Fixing screws, labelling supplied

Applications

- > Supports category 6_A networks running up to 500 MHz applications
- > Backwards compatible with category 6 distribution systems

Conformance

- > Category 6_A
- > ISO/IEC 11801 : 2002
- > ANSI/EIA/TIA 568B.2 : 2002
- > RoHS

Technical Specifications

MECHANICAL	VALUE
Housing Material	PBT + 15% GF UL94V-0
IDC Material	Phosphor Bronze Stamp Pin 0.35mm
Contact Material	Phosphor Bronze + Gold Plating 0.50mm
RJ45 Jack Life	Min 750 Insertions
IDC Life	Min 250 Terminations



FACEPLATE1SL
86x86mm - Box of 10pcs



FACEPLATE2SL
86x86mm - Box of 10pcs



ANGLEDMODULE
Box of 20pcs

All loaded faceplates include this style of keystone jack

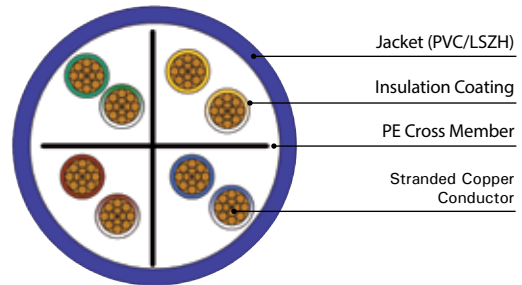
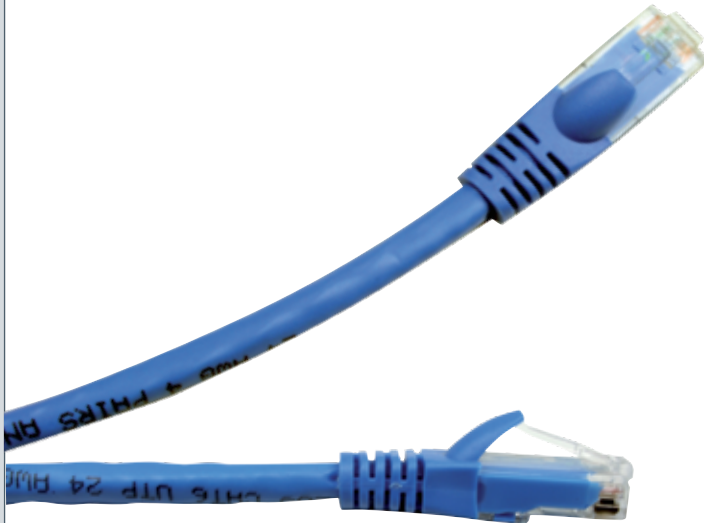


HALFBLANK
50x25mm
Box of 50pcs



SINGLEBLANK
50x12.5mm
Box of 100pcs

Category 6_A UTP Patch Cords



Category 6_A Unshielded Twisted Pair (UTP) patch cords conform to class EA standards. Our patch cords are made to the highest standards using only quality stranded cable, giving them the best in flexibility, plus top grade 50µ gold plated RJ45 connector plugs for high quality connections. This combination makes for outstanding performance and reduced degradation.

All patch cords are produced with an injection moulded boot with an easy depression latch cover. Available across 8 colours, 6 standard lengths and in PVC or LSZH jacket varieties. For best performance we recommend these as part of a full Optronics category 6_A system.

Technical Specifications

CONSTRUCTION		VALUE
Conductors	AWG	24
	Size (mm)	7/0.20 +/- 0.008
	Material	Bare Copper
Insulators	Diameter (mm)	0.98 +/- 0.05
	Material	Polyolefin
Jacket	External O.D.	6.0 +/- 0.20
	Thickness (mm)	0.5
	Material	PVC

Features

- > Quality 24 AWG stranded (flexible) cable
- > High grade 50µ gold plated RJ45 connector
- > Injection moulded boot for improved strain relief
- > Soft latch-cover design for easy depression

Applications

- > Supports category 6_A, 6 and 5e networks running up to 500 MHz applications
- > Backwards compatible with category 6 distribution systems

Conformance

- > Category 6_A
- > ISO/IEC 11801 : 2002
- > ANSI/EIA/TIA 568B.2 : 2002
- > RoHS

Category 6_A UTP Patch Cords

PVC

	PART NUMBER	METRE
BLUE	UTP6ABL0.5-PVC	0.5
	UTP6ABL1-PVC	1
	UTP6ABL2-PVC	2
	UTP6ABL3-PVC	3
	UTP6ABL5-PVC	5
GREEN	UTP6ABL10-PVC	10
	UTP6AGN0.5-PVC	0.5
	UTP6AGN1-PVC	1
	UTP6AGN2-PVC	2
	UTP6AGN3-PVC	3
ORANGE	UTP6AGN5-PVC	5
	UTP6AGN10-PVC	10
	UTP6AOR0.5-PVC	0.5
	UTP6AOR1-PVC	1
	UTP6AOR2-PVC	2
	UTP6AOR3-PVC	3
	UTP6AOR5-PVC	5
	UTP6AOR10-PVC	10

	PART NUMBER	METRE
YELLOW	UTP6AYE0.5-PVC	0.5
	UTP6AYE1-PVC	1
	UTP6AYE2-PVC	2
	UTP6AYE3-PVC	3
	UTP6AYE5-PVC	5
RED	UTP6AYE10-PVC	10
	UTP6ARD0.5-PVC	0.5
	UTP6ARD1-PVC	1
	UTP6ARD2-PVC	2
	UTP6ARD3-PVC	3
WHITE	UTP6ARD5-PVC	5
	UTP6ARD10-PVC	10
	UTP6AWH0.5-PVC	0.5
	UTP6AWH1-PVC	1
	UTP6AWH2-PVC	2
	UTP6AWH3-PVC	3
	UTP6AWH5-PVC	5
	UTP6AWH10-PVC	10

	PART NUMBER	METRE
GREY	UTP6AGY0.5-PVC	0.5
	UTP6AGY1-PVC	1
	UTP6AGY2-PVC	2
	UTP6AGY3-PVC	3
	UTP6AGY5-PVC	5
BLACK	UTP6AGY10-PVC	10
	UTP6ABK0.5-PVC	0.5
	UTP6ABK1-PVC	1
	UTP6ABK2-PVC	2
	UTP6ABK3-PVC	3
	UTP6ABK5-PVC	5
	UTP6ABK10-PVC	10

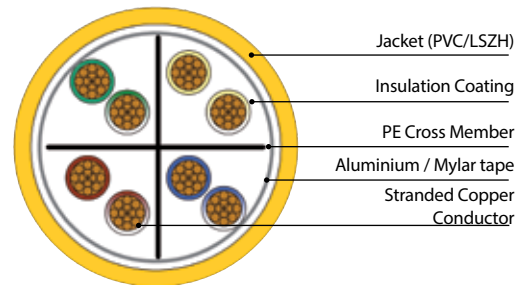
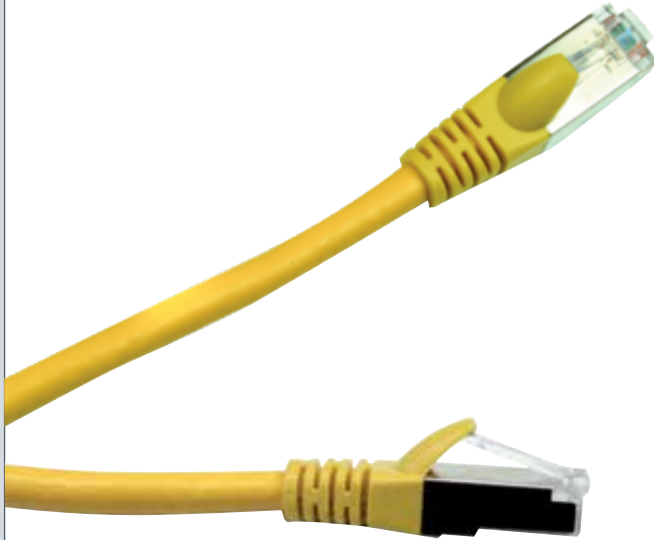
LSZH

	PART NUMBER	METRE
BLUE	UTP6ABL0.5-LSZH	0.5
	UTP6ABL1-LSZH	1
	UTP6ABL2-LSZH	2
	UTP6ABL3-LSZH	3
	UTP6ABL5-LSZH	5
GREEN	UTP6ABL10-LSZH	10
	UTP6AGN0.5-LSZH	0.5
	UTP6AGN1-LSZH	1
	UTP6AGN2-LSZH	2
	UTP6AGN3-LSZH	3
ORANGE	UTP6AGN5-LSZH	5
	UTP6AGN10-LSZH	10
	UTP6AOR0.5-LSZH	0.5
	UTP6AOR1-LSZH	1
	UTP6AOR2-LSZH	2
	UTP6AOR3-LSZH	3
	UTP6AOR5-LSZH	5
	UTP6AOR10-LSZH	10

	PART NUMBER	METRE
YELLOW	UTP6AYE0.5-LSZH	0.5
	UTP6AYE1-LSZH	1
	UTP6AYE2-LSZH	2
	UTP6AYE3-LSZH	3
	UTP6AYE5-LSZH	5
RED	UTP6AYE10-LSZH	10
	UTP6ARD0.5-LSZH	0.5
	UTP6ARD1-LSZH	1
	UTP6ARD2-LSZH	2
	UTP6ARD3-LSZH	3
WHITE	UTP6ARD5-LSZH	5
	UTP6ARD10-LSZH	10
	UTP6AWH0.5-LSZH	0.5
	UTP6AWH1-LSZH	1
	UTP6AWH2-LSZH	2
	UTP6AWH3-LSZH	3
	UTP6AWH5-LSZH	5
	UTP6AWH10-LSZH	10

	PART NUMBER	METRE
GREY	UTP6AGY0.5-LSZH	0.5
	UTP6AGY1-LSZH	1
	UTP6AGY2-LSZH	2
	UTP6AGY3-LSZH	3
	UTP6AGY5-LSZH	5
BLACK	UTP6AGY10-LSZH	10
	UTP6ABK0.5-LSZH	0.5
	UTP6ABK1-LSZH	1
	UTP6ABK2-LSZH	2
	UTP6ABK3-LSZH	3
	UTP6ABK5-LSZH	5
	UTP6ABK10-LSZH	10

Category 6_A FTP Patch Cords



Category 6_A Foiled Twisted Pair (FTP) patch cords conform to class EA standards. Our patch cords are made to the highest standards, using only quality stranded cable, giving you the best in flexibility, plus top grade 50µ gold plated RJ45 connector plugs for high quality connections. This combination makes for outstanding performance and reduced degradation. Aluminium tape is used to shield all 4 pairs; this gives a screened protection against external interference such as EMI.

All patch cords are produced with an injection moulded boot with easy depression latch cover. Available across 8 colours, 6 standard lengths and in PVC or LSZH jacket varieties. For best performance we recommend you use these as part of a full Optronics category 6_A system.

Technical Specifications

CONSTRUCTION		VALUE
Conductors	AWG	26
	Size (mm)	7/0.20 +/- 0.008
	Material	Bare Copper
Insulators	Diameter (mm)	0.98 +/- 0.05
	Material	Polyolefin
	External O.D.	6.0 +/- 0.20
Jacket	Thickness (mm)	0.5
	Material	PVC
	Material	Aluminium Mylar
Tape	Coverage (%)	125

Features

- > Quality 26 AWG stranded (flexible) cable
- > High grade 50µ gold plated RJ45 connector
- > Injection moulded boot for improved strain relief
- > Soft latch-cover design for easy depression

Applications

- > Supports category 6_A, 6 and 5e networks running up to 500 MHz applications
- > Ideal for environments where heavy external interference can disrupt signal such as EMI
- > Backwards compatible with category 6_A distribution system

Conformance

- > Category 6_A
- > ISO/IEC 11801 : 2002
- > ANSI/EIA/TIA 568B.2 : 2002
- > RoHS

Category 6_A FTP Patch Cords

PVC

	PART NUMBER	METRE
BLUE	FTP6ABL0.5-PVC	0.5
	FTP6ABL1-PVC	1
	FTP6ABL2-PVC	2
	FTP6ABL3-PVC	3
	FTP6ABL5-PVC	5
GREEN	FTP6ABL10-PVC	10
	FTP6AGN0.5-PVC	0.5
	FTP6AGN1-PVC	1
	FTP6AGN2-PVC	2
	FTP6AGN3-PVC	3
ORANGE	FTP6AGN5-PVC	5
	FTP6AGN10-PVC	10
	FTP6AOR0.5-PVC	0.5
	FTP6AOR1-PVC	1
	FTP6AOR2-PVC	2
	FTP6AOR3-PVC	3
	FTP6AOR5-PVC	5
	FTP6AOR10-PVC	10

	PART NUMBER	METRE
YELLOW	FTP6AYE0.5-PVC	0.5
	FTP6AYE1-PVC	1
	FTP6AYE2-PVC	2
	FTP6AYE3-PVC	3
	FTP6AYE5-PVC	5
RED	FTP6AYE10-PVC	10
	FTP6ARD0.5-PVC	0.5
	FTP6ARD1-PVC	1
	FTP6ARD2-PVC	2
	FTP6ARD3-PVC	3
WHITE	FTP6ARD5-PVC	5
	FTP6ARD10-PVC	10
	FTP6AWH0.5-PVC	0.5
	FTP6AWH1-PVC	1
	FTP6AWH2-PVC	2
	FTP6AWH3-PVC	3
	FTP6AWH5-PVC	5
	FTP6AWH10-PVC	10

	PART NUMBER	METRE
GREY	FTP6AGY0.5-PVC	0.5
	FTP6AGY1-PVC	1
	FTP6AGY2-PVC	2
	FTP6AGY3-PVC	3
	FTP6AGY5-PVC	5
BLACK	FTP6AGY10-PVC	10
	FTP6ABK0.5-PVC	0.5
	FTP6ABK1-PVC	1
	FTP6ABK2-PVC	2
	FTP6ABK3-PVC	3
	FTP6ABK5-PVC	5
	FTP6ABK10-PVC	10

LSZH

	PART NUMBER	METRE
BLUE	FTP6ABL0.5-LSZH	0.5
	FTP6ABL1-LSZH	1
	FTP6ABL2-LSZH	2
	FTP6ABL3-LSZH	3
	FTP6ABL5-LSZH	5
GREEN	FTP6ABL10-LSZH	10
	FTP6AGN0.5-LSZH	0.5
	FTP6AGN1-LSZH	1
	FTP6AGN2-LSZH	2
	FTP6AGN3-LSZH	3
ORANGE	FTP6AGN5-LSZH	5
	FTP6AGN10-LSZH	10
	FTP6AOR0.5-LSZH	0.5
	FTP6AOR1-LSZH	1
	FTP6AOR2-LSZH	2
	FTP6AOR3-LSZH	3
	FTP6AOR5-LSZH	5
	FTP6AOR10-LSZH	10

	PART NUMBER	METRE
YELLOW	FTP6AYE0.5-LSZH	0.5
	FTP6AYE1-LSZH	1
	FTP6AYE2-LSZH	2
	FTP6AYE3-LSZH	3
	FTP6AYE5-LSZH	5
RED	FTP6AYE10-LSZH	10
	FTP6ARD0.5-LSZH	0.5
	FTP6ARD1-LSZH	1
	FTP6ARD2-LSZH	2
	FTP6ARD3-LSZH	3
WHITE	FTP6ARD5-LSZH	5
	FTP6ARD10-LSZH	10
	FTP6AWH0.5-LSZH	0.5
	FTP6AWH1-LSZH	1
	FTP6AWH2-LSZH	2
	FTP6AWH3-LSZH	3
	FTP6AWH5-LSZH	5
	FTP6AWH10-LSZH	10

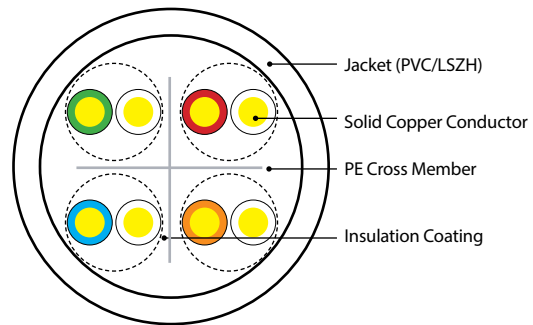
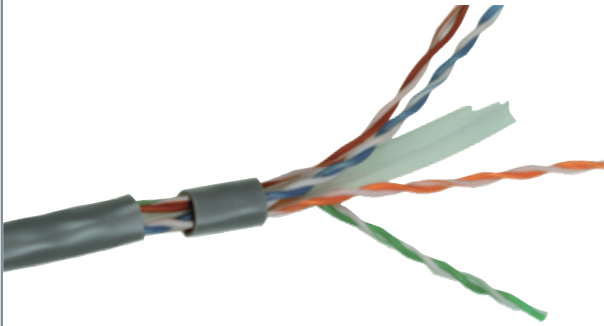
	PART NUMBER	METRE
GREY	FTP6AGY0.5-LSZH	0.5
	FTP6AGY1-LSZH	1
	FTP6AGY2-LSZH	2
	FTP6AGY3-LSZH	3
	FTP6AGY5-LSZH	5
BLACK	FTP6AGY10-LSZH	10
	FTP6ABK0.5-LSZH	0.5
	FTP6ABK1-LSZH	1
	FTP6ABK2-LSZH	2
	FTP6ABK3-LSZH	3
	FTP6ABK5-LSZH	5
	FTP6ABK10-LSZH	10

Optronics Copper Cabling System

Category 6

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Category 6 UTP Cable



Category 6 Unshielded Twisted Pair (UTP) cable is produced using 4 x 2 x 23 AWG copper wire structure to a class E standard.

More than capable of supporting protocol's up to 250 MHz for horizontal and backbone installations.

Technical Specifications

CONSTRUCTION		VALUE
Conductors	AWG	23
	Size (mm)	0.565
	Material	Solid Bare Copper
Insulators	Diameter (mm)	1.03+/-0.02
	Material	HDPE
Jacket	External O.D.	6.0 +/- 0.20
	Thickness (mm)	0.55
	Material	PVC / LSZH / PE

Features

- > 23 AWG conductor – solid bare copper cable
- > PVC, LSZH and PE options
- > Supplied in 305m boxes or 500m reels
- > Printed metre marks

Applications

- > Supports category 6 (class E) networks running up to 250MHz applications
- > Backwards compatible with category 5e distribution systems
- > Horizontal and backbone installations
- > 10 Base T (IEEE 802.3)
- > 100 Base T (IEEE 802.3U)
- > 1000 Base T (IEEE 802.3ab)
- > 100 VG any LAN (IEEE 802.12)
- > Token ring (IEEE 805.5)

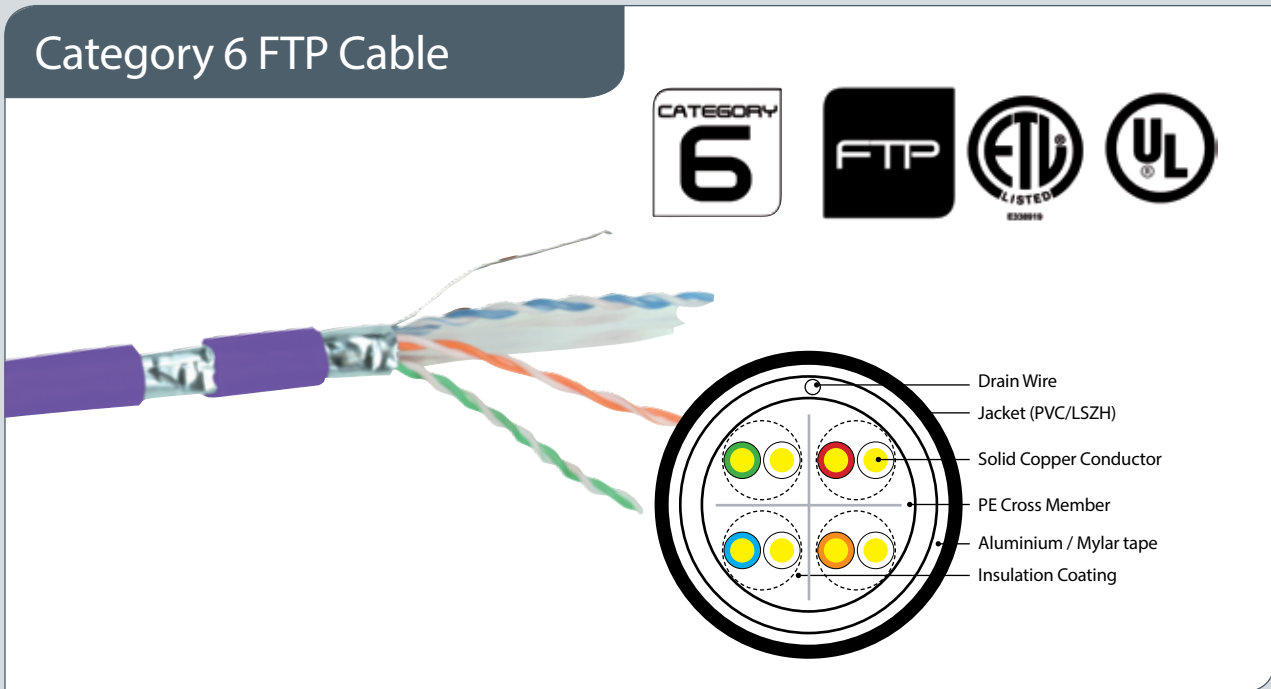
Ordering Information

DESCRIPTION	PART NUMBER
Category 6 Unshielded Twisted Pair (UTP) 23 AWG cable PVC Grey - 305m box - ETL, UL approved	UTP6305PVC
Category 6 Unshielded Twisted Pair (UTP) 23 AWG cable LSZH Violet - 305m box - ETL approved	UTP6305LSZH
Category 6 solid Unshielded Twisted Pair 23 AWG cable LSZH Grey - 500m reels - ETL approved	UTP6500LSZH/GRY
Category 6 Unshielded Twisted Pair (UTP) External Grade 23 AWG cable - PE black 305m box	UTP6305EXT

Conformance

- > Category 6
- > ANSI/EIA/TIA 568B.2 : 2002
- > ISO/IEC 11801 : 2002
- > RoHS
- > REACH
- > ETL/UL approved

Category 6 FTP Cable



Category 6 Foiled Twisted Pair (FTP) cable is produced using 4 x 2 x 23 AWG copper to a class E standard. An aluminium tape is used to shield all 4 pairs; this gives a screened protection

against external interference such as EMI. Capable of supporting protocol's up to 250 MHz for horizontal and backbone installations.

Features

- > 23 AWG conductor – solid bare copper cable
- > PVC, LSZH and PE options
- > Supplied in 305m boxes or 500 reels
- > Printed metre marks

Applications

- > Supports category 6 (class E) networks running up to 250 MHz applications
- > Backwards compatible with category 5e distribution systems
- > Horizontal and backbone installations
- > 10 Base T (IEEE 802.3)
- > 100 Base T (IEEE 802.3U)
- > 1000 Base T (IEEE 802.3ab)
- > 100 VG any LAN (IEEE 802.12)
- > Token ring (IEEE 805.5)

Conformance

- > Category 6
- > ANSI/EIA/TIA 568B.2 : 2002
- > ISO/IEC 11801 : 2002
- > RoHS
- > REACH
- > ETL/UL approved

Technical Specifications

CONSTRUCTION		VALUE
Conductors	AWG	23
	Size (mm)	0.57
	Material	Solid Bare Copper
Insulators	Diameter (mm)	1.08 +/- 0.02
	Material	HDPE
Jacket	Material	Polyester + Aluminium Foil
	External O.D.	7.4 +/- 0.3
	Thickness (mm)	0.60 +/- 0.05
	Material	PVC / LSZH / PE

Ordering Information

DESCRIPTION	PART NUMBER
Category 6 Foiled Twisted Pair (FTP) 23 AWG cable PVC Grey 305m box - ETL, UL approved	FTP6305PVC
Category 6 Foiled Twisted Pair (FTP) 23 AWG cable LSZH Violet - 305m box	FTP6305LSZH
Category 6 Foiled Twisted Pair (FTP) External Grade 23 AWG cable - PE black 305m box	FTP6350EXT

Category 6 UTP Keystone Jack Patch Panel

24
Ports



Category 6 modular keystone jack Unshielded Twisted Pair (UTP) patch panels conform to class E performance. Each port is made up from individual modular RJ45 keystone jacks. Each

jack can be easily removed from the patch panel for individual termination and has a wiring diagram to assist termination to either 568A or B wiring standards.

Technical Specifications

MECHANICAL	VALUE
Housing Material	PC UL94V-0
Panel Frame	Carbon Steel Frame, Plastic Powder Clad
IDC Material	Phosphor Bronze Stamp Pin 0.35mm
Contact Material	Phosphor Bronze + Gold Plating 0.50mm
RJ45 Jack Life	Min 750 Insertions
IDC Life	Min 250 Terminations

Features

- > RJ45 24 port fully loaded 1U panel
- > 19" rack mountable
- > Krone style IDC
- > Rear cable management bar included
- > Supplied with fixings
- > Ports numerically identified

Applications

- > Supports category 6 (class E) networks running up to 250 MHz applications
- > Backwards compatible with category 5e distribution systems

Conformance

- > Category 6
- > EN50173-1 : 2002
- > EIA/TIA 568A/B Wiring standard
- > ANSI/EIA/TIA 568B.2 : 2002
- > ISO/IEC 11801 : 2002
- > RoHS
- > UL approved

Ordering Information

DESCRIPTION	PART NUMBER
Category 6 Unshielded Twisted Pair (UTP) Fully Loaded 1U 24 port patch panel - UL approved	CAT6+UTP24K
Unloaded 1U 24 Port Keystone Panel Frame for use with keystone jacks	PANEL24KEYSTONE

Category 6 UTP Tool Free Panel

24
Ports



Category 6 Unshielded Twisted Pair (UTP) tool free patch panels conform to class E performance. These panels offer termination using the latest in tool free keystone jack technology.

The use of an insertion tool is not required when terminating these panels. Available in a 1U 24 port format, panels are supplied fully loaded with rear management bars and fixings.

Features

- > RJ45 24 port fully loaded 1U panel
- > 19" rack mountable
- > Saves valuable installation time
- > Supplied with fixings
- > Loaded with 180° tool free keystone jacks
- > Ports numerically identified
- > Includes rear cable management bar

Applications

- > Supports category 6 (class E) networks running up to 250 MHz applications
- > Backwards compatible with category 5e distribution systems

Conformance

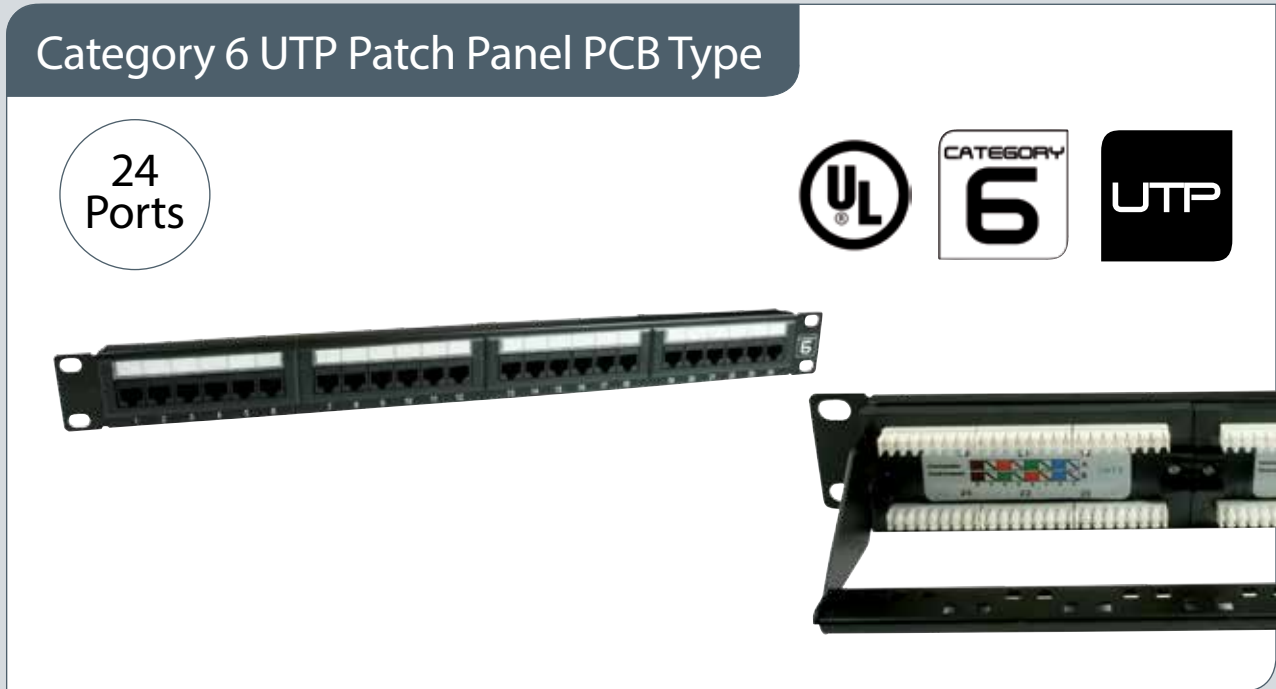
- > Category 6
- > ISO/IEC 11801 : 2002
- > EIA/TIA 568A/B wiring standard
- > ANSI/EIA/TIA 568B.2 : 2002
- > EN50173-1 : 2002
- > RoHS
- > UL approved

Technical Specifications

MECHANICAL	VALUE
Housing Material	PC UL94V-0
Panel Frame	Carbon Steel Frame, Plastic Powder Clad
IDC Material	Phosphor Bronze Stamp Pin 0.35mm
Contact Material	Phosphor Bronze + Gold Plating 0.50mm
RJ45 Jack Life	Min 750 Insertions
IDC Life	Min 250 Terminations

Ordering Information

DESCRIPTION	PART NUMBER
Category 6 Unshielded Twisted Pair UTP Tool Free Keystone 1U 24 port patch panel - UL approved	CAT6+UTP24TJ



Category 6 Printed Circuit Board (PCB) Unshielded Twisted Pair (UTP) patch panels conform to class E performance. Backwards compatible with category 5e distribution systems. The PCB is fully sealed for extra protection, and in-line IDC

blocks. Wiring diagram, assists termination to either 568A or B wiring standards. Available in 1U 24 port or 2U 48 port. All panels are supplied with rear cable management bars and fixings.

Technical Specifications

MECHANICAL	VALUE
Housing Material	PBT + 15% GF UL94V-0
Panel Frame	Carbon Steel, Powder Coating
Contact Material	PC UL94V-0 Contact: Phosphor Bronze + Nickel Plating
IDC Material	Phosphor Bronze Stamp Pin 0.35mm
RJ45 Jack Life	Min 750 Insertions
IDC Life	Min 200 Terminations

Features

- > 19" rack mountable
- > Ports numerically identified
- > RJ45 24 port 1U or 48 port 2U options
- > 110 style IDC punch down
- > Removable label area
- > Supplied with fixings
- > Rear cable management bar included

Applications

- > Supports category 6 (class E) networks running up to 250 MHz applications
- > Backwards compatible with category 5e distribution systems

Conformance

- > Category 6
- > ISO/IEC 11801 : 2002
- > EIA/TIA 568A/B Wiring standard
- > ANSI/EIA/TIA 568B.2 : 2002
- > EN50173-1 : 2002
- > RoHS
- > UL approved

Ordering Information

DESCRIPTION	PART NUMBER
Category 6 1U 24 Port Printed Circuit Board (PCB) patch panel - UL approved	CAT6+UTP24PCB
Category 6 2U 48 Port Printed Circuit Board (PCB) patch panel - UL approved	CAT6+UTP48PCB

Category 6 24 Ports Right Angle Panel

24
Ports



Category 6 Unshielded Twisted Pair (UTP) patch panels conform to class E performance. Each panel is produced using a right angled (90°) frame design for flat termination onto the IDC blocks. This ensures termination and general management is quick and easy when

working with bulky horizontal cables. Integral cable management also provides a solid platform for fixing and managing cable entry. Each port has its own 8 pin IDC block including a wiring diagram. Available in 1U 24 port format, panels are supplied with fixings.

Features

- > 19" rack mountable
- > Integral cable management
- > RJ45 24 port 1U
- > Ports numerically identified
- > Right angle (90°) design
- > Printed label area
- > Supplied with fixings

Technical Specifications

MECHANICAL	VALUE
Housing Material	PC UL94V-0
Panel Frame	Zinc Plating, Powder Coating
Contact Material	PC UL94V-0 Contact: Phosphor Bronze + Nickel Plating
IDC Material	Phosphor Bronze Stamp Pin 0.35mm
RJ45 Jack Life	Min 750 Insertions
IDC Life	Min 200 Terminations

Applications

- > Supports category 6 (class E) networks running up to 250 MHz applications
- > Backwards compatible with category 5e distribution systems

Conformance

- > Category 6
- > ISO/IEC 11801 : 2002
- > EIA/TIA 568A/B wiring standard
- > ANSI/EIA/TIA 568B.2 : 2002
- > EN50173-1 : 2002
- > RoHS
- > UL approved

Ordering Information

DESCRIPTION	PART NUMBER
Category 6 Unshielded Twisted Pair (UTP) 1U 24 Port 90 degree patch panel UL approved	CAT6+UTP24RA



Category 6 Shielded Twisted Pair (STP) patch panels conform to class E performance and are backwards compatible with category 5e distribution systems. Each shielded panel is produced using a right angled (90°) frame design for flat termination onto the IDC blocks. This ensures termination, grounding and general management is quick and easy, when

working with category 6 shielded cables. Cable grounding is achieved by using the shielding clamps located to the rear of the integral cable management. Each port has its own 8 pin IDC block. The panel includes an overall sliding cover which gives extra screening against EMI and protects the terminations.

Technical Specifications

MECHANICAL	VALUE
Housing Material	PC UL94V-0
Panel Frame	Zinc Plating, Powder Coating
Contact Material	PC UL94V-0 Contact: Phosphor Bronze + Nickel Plating
IDC Material	Phosphor Bronze Stamp Pin 0.35mm
RJ45 Jack Life	Min 750 Insertions
IDC Life	Min 200 Terminations

Features

- > 19" rack mountable
- > Ports numerically identified
- > RJ45 24 port 1U
- > Right angle (90°) design
- > Supplied with fixings and earthing wire
- > Integral cable management
- > Grounding clamps

Applications

- > Supports category 6 (class E) networks running up to 250 MHz applications
- > Backwards compatible with category 5e distribution systems
- > Fully screened for EMI protection

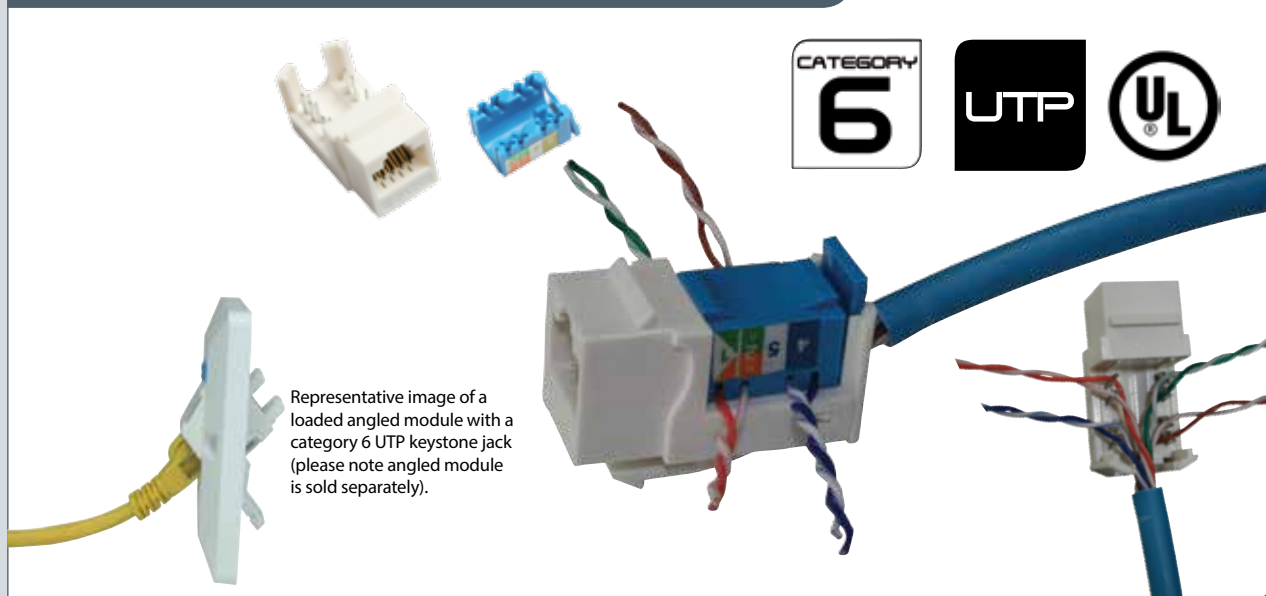
Conformance

- > Category 6
- > ISO/IEC 11801 : 2002
- > EIA/TIA 568A/B Wiring standard
- > ANSI/EIA/TIA 568B.2 : 2002
- > EN50173-1 : 2002
- > RoHS
- > UL approved

Ordering Information

DESCRIPTION	PART NUMBER
Category 6 Shielded Twisted Pair (STP) 1U 24 Port patch panel - UL approved	CAT6+STP24

Category 6 UTP Keystone Tool Free Jack



Category 6 Unshielded Twisted Pair (UTP) tool free keystone jacks conform to class E standards. They follow the industry standard RJ45 footprint and, due to the small form design, they

are perfect for high density Applications. The keystone jack requires no insertion tool for termination.

Features

- > Small form RJ45 footprint design
- > 180° termination
- > IDC tool free punch down
- > Reduces installation time
- > Supplied in boxes of 20pcs
- > Wiring diagram and conductor cap supplied

Technical Specifications

MECHANICAL	VALUE
Housing Material	PC UL94V-0
Contact Material	Phosphor Bronze + Gold Plating 0.50mm
IDC Material	Phosphor Bronze Stamp Pin 0.35mm
RJ45 Jack Life	Min 750 Insertions
IDC Life	Min 200 Terminations

Applications

- > Supports category 6 (class E) networks running up to 250 MHz applications
- > Ideal for high density installations
- > Backwards compatible with category 5e distribution system

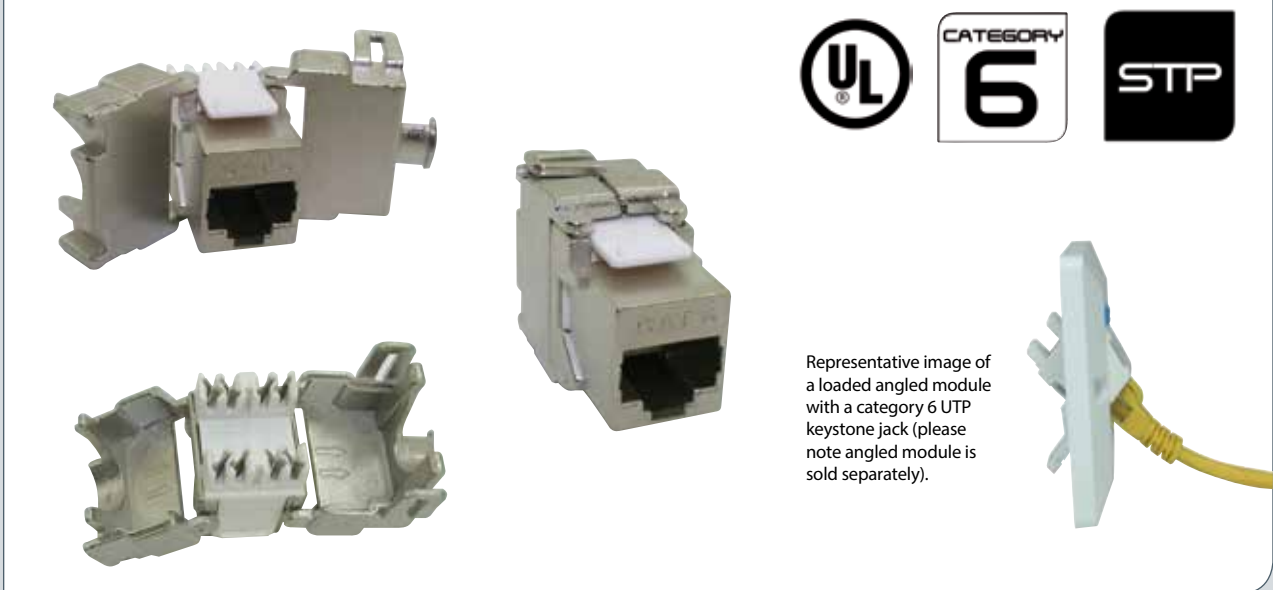
Conformance

- > Category 6
- > ISO/IEC 11801 : 2002
- > ANSI/EIA/TIA 568B.2 : 2002
- > RoHS
- > UL approved

Ordering Information

DESCRIPTION	PART NUMBER
Category 6 Unshielded Twisted Pair Free keystone jack – White - Box of 20pcs - UL approved	CAT6+JACKTJ

Category 6 STP Keystone Jack



Representative image of a loaded angled module with a category 6 UTP keystone jack (please note angled module is sold separately).

Category 6 Shielded Twisted Pair (STP) keystone jacks conform to class E performance. They follow the industry standard RJ45

footprint and due to the small form design they are perfect for high density applications.

Technical Specifications

MECHANICAL	VALUE
Housing Material	PC UL94V-0
Shielding Material	Brass 0.30mm + Nickel Plating
Insert Material	Flame retardancy ABS UL94V-0
IDC Material	Phosphor Bronze Stamp Pin 0.35mm
Contact Material	Phosphor Bronze + Gold Plating 0.50mm
RJ45 Jack Life	Min 750 Insertions
IDC Life	Min 250 Terminations

Features

- > Small form RJ45 footprint design
- > 90° termination
- > High performance
- > Fully shielded for EMI protection
- > Wiring diagram and conductor cap supplied
- > 110 style IDC punch down

Applications

- > Supports category 6 (class E) networks running up to 250 MHz applications
- > Ideal for high density installations
- > Ideal for environments sensitive to EMI
- > Backwards compatible with category 5e distribution systems

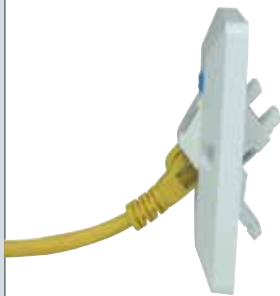
Conformance

- > Category 6
- > ISO/IEC 11801 : 2002
- > ANSI/EIA/TIA 568B.2 : 2002
- > RoHS
- > UL approved

Ordering Information

DESCRIPTION	PART NUMBER
Category 6 Shielded Twisted Pair (STP) keystone jack UL approved	CAT6+JACK180STP

Category 6 UTP Keystone Jack



Representative image of a loaded angled module with a category 6 UTP keystone jack (please note angled module is sold separately).



Category 6 Unshielded Twisted Pair (UTP) keystone jacks conform to class E performance. They follow the industry standard keystone jack footprint and, due to their small form design, they are perfect for high density applications.

Each jack is available with a 180° termination design, wiring diagram and conductor protection cap and can be supplied in black or white variants.

Features

- > Small form RJ45 footprint design
- > IDC punch down
- > 180° termination
- > High performance
- > Available in black/white, with or without shutter
- > Wiring diagram and conductor cap supplied
- > Supplied in boxes of 20pcs

Applications

- > Supports category 6 (class E) networks running up to 250 MHz applications
- > Ideal for high density installations
- > Backwards compatible with category 5e distribution systems

Conformance

- > Category 6
- > ISO/IEC 11801 : 2002
- > ANSI/EIA/TIA 568B.2 : 2002
- > RoHS
- > 3P approved (3rd party approval as part of permanent link using cable and panel)
- > UL approved

Technical Specifications

MECHANICAL	VALUE
Housing Material	PC UL94V-0
IDC Material	Phosphor Bronze Stamp Pin 0.35mm
Contact Material	Phosphor Bronze + Gold Plating 0.50mm
RJ45 Jack Life	Min 750 Insertions
IDC Life	Min 250 Terminations

Ordering Information

DESCRIPTION	PART NUMBER
Category 6 Unshielded Twisted Pair (UTP) keystone jack White Box of 20pcs - UL approved - 3P	CAT6+JACK180WH
Category 6 Unshielded Twisted Pair (UTP) keystone jack Black - Box of 20pcs - UL approved - 3P	CAT6+JACK180BK
Category 6 Unshielded Twisted Pair (UTP) Shuttered keystone jack White - Box of 20pcs - UL approved - 3P	CAT6+JACK180WHS
Category 6 Unshielded Twisted Pair (UTP) Shuttered keystone jack Black - Box of 20pcs - UL approved - 3P	CAT6+JACK180BKS

Category 6 UTP Bevelled Loaded Faceplates



FACEPLATE2PBEV
Single gang - 2 position
86x86mm - Box of 10pcs



CAT6+FACE1PBEVJ
Angled module and jack
86x86mm - Box of 10pcs



CAT6+FACE2PBEVJ
Angled module and jack
86x86mm - Box of 10pcs



FACEPLATE4PBEV
Double gang - 4 position
86x147mm - Box of 10pcs



CAT6+FACE4PBEVJ
Angled module and jack
86x147mm - Box of 10pcs



ANGLEDMODULE
Box of 20pcs



SINGLEBLANK
50x12.5mm
Box of 100pcs



HALFBLANK
50x25mm
Box of 50pcs



All loaded faceplates include this style of keystone jack

Features

- > Fully loaded / completed outlets
- > Reduced installation time
- > Wiring diagram and mini cable tie supplied
- > Supplied in boxes of 10pcs
- > Fixing screws, labelling supplied

Applications

- > Supports category 6 networks running up to 500 MHz applications
- > Backwards compatible with category 5e distribution systems

Conformance

- > Category 6
- > ISO/IEC 11801 : 2002
- > ANSI/EIA/TIA 568B.2 : 2002
- > RoHS

Technical Specifications

MECHANICAL	VALUE
Housing Material	PC UL94V-0
IDC Material	Phosphor Bronze Stamp Pin 0.35mm
Contact Material	Phosphor Bronze + Gold Plating 0.50mm
RJ45 Jack Life	Min 750 Insertions
IDC Life	Min 250 Terminations

Category 6 UTP Flat Loaded Faceplates



FACEPLATE2PFLAT
Single gang - 2 position
86x86mm - Box of 10pcs



CAT6+FACE1PFLTJ
Angled module and jack
86x86mm - Box of 10pcs



CAT6+FACE2PFLTJ
Angled module and jack
86x86mm - Box of 10pcs



FACEPLATE4PFLAT
Double gang - 4 position
86x147mm - Box of 10pcs



CAT6+FACE4PFLTJ
Angled module and jack
86x147mm - Box of 10pcs

Features

- > Fully loaded / completed outlets
- > Reduced installation time
- > Wiring diagram and mini cable tie supplied
- > Supplied in boxes of 10pcs
- > Fixing screws, labelling supplied

Applications

- > Supports category 6 networks running up to 500 MHz applications
- > Backwards compatible with category 5e distribution systems

Conformance

- > Category 6
- > ISO/IEC 11801 : 2002
- > ANSI/EIA/TIA 568B.2 : 2002
- > RoHS

Technical Specifications

MECHANICAL	VALUE
Housing Material	PBT + 15% GF UL94V-0
IDC Material	Phosphor Bronze Stamp Pin 0.35mm
Contact Material	Phosphor Bronze + Gold Plating 0.50mm
RJ45 Jack Life	Min 750 Insertions
IDC Life	Min 250 Terminations



ANGLEDMODULE
Box of 20pcs



SINGLEBLANK
50x12.5mm
Box of 100pcs



HALFBLANK
50x25mm
Box of 50pcs



All loaded faceplates include this style of keystone jack

Category 6 UTP Euro Module



Category 6 Unshielded Twisted Pair (UTP) 25x50mm shuttered, moulded, modules (Euro Mod) conform to class E performance. They feature a slim line design, which is an ideal solution for shallow floor box or dado trunking applications.

Each module is supplied with a slide-in label area, for easy and clear outlet identification, and a mini cable-tie. Suits British Standard faceplates only.

Technical Specifications

MECHANICAL	VALUE
Housing Material	PC UL94V-0
IDC Material	Phosphor Bronze Stamp Pin 0.35mm
Contact Material	Phosphor Bronze + Gold Plating 0.50mm
RJ45 Jack Life	Min 750 Insertions
IDC Life	Min 250 Terminations

Features

- > Complete shuttered module with PCB technology
- > Slim line design for shallow Applications
- > IDC punch down
- > Wiring diagram and mini cable tie supplied
- > Supplied in boxes of 20pcs
- > Compatible with UK faceplates

Applications

- > Supports category 6 (class E) networks running up to 250 MHz applications
- > Installations with limited space
- > Backwards compatible with category 5e distribution systems

Conformance

- > Category 6
- > ANSI/EIA/TIA 568B.2 : 2002
- > ISO/IEC 11801 : 2002
- > RoHS
- > UL approved

Ordering Information

DESCRIPTION	PART NUMBER
Category 6 Unshielded Twisted Pair (UTP) 50x25mm Shuttered Moulded Module - White - Box of 20pcs - UL approved	CAT6+FACEMODULE

Category 6 UTP Bevelled Euro Faceplates

FACEPLATE2PBEV
Single gang - 2 position
86x86mm - Box of 10pcs



CAT6+FACE1PBEVM
Euro module and Jack
86x86mm - Box of 10pcs



CAT6+FACE2PBEVM
Euro module and Jack
86x86mm - Box of 10pcs



FACEPLATE4PBEV
Double gang - 4 position
86x147mm - Box of 10pcs



CAT6+FACE4PBEVM
Euro module and Jack
86x147mm - Box of 10pcs



SINGLEBLANK
50x12.5mm
Box of 100pcs



HALFBLANK
50x25mm
Box of 50pcs



All loaded faceplates include this style of keystone jack
UL approved

Features

- > Fully loaded / completed outlets
- > Reduced installation time
- > Wiring diagram and mini cable tie supplied
- > Supplied in boxes of 10pcs
- > Fixing screws labelling supplied

Applications

- > Supports category 6 (class E) networks running up to 250 MHz applications
- > Backwards compatible with category 5e distribution systems

Conformance

- > Category 6
- > ISO/IEC 11801 : 2002
- > ANSI/EIA/TIA 568B.2.1
- > RoHS

Technical Specifications

MECHANICAL	VALUE
Housing Material	PC UL94V-0
IDC Material	Phosphor Bronze Stamp Pin 0.35mm
Contact Material	Phosphor Bronze + Gold Plating 0.50mm
RJ45 Jack Life	Min 750 Insertions
IDC Life	Min 250 Terminations

Category 6 UTP Flat Loaded Euro Module

FACEPLATE2PFLAT

Single gang - 2 position
86x86mm - Box of 10pcs



CAT6+FACE1PFLTM

Euro module and jack
86x86mm - Box of 10pcs



CAT6+FACE2PFLTM

Euro module and jack
86x86mm - Box of 10pcs



FACEPLATE4PFLAT

Double gang - 4 position
86x147mm - Box of 10pcs



CAT6+FACE4PFLTM

Euro module and jack
86x147mm - Box of 10pcs

Features

- > Fully loaded / completed outlets
- > Reduced installation time
- > Wiring diagram and mini cable tie supplied
- > Supplied in boxes of 10pcs
- > Fixing screws labelling supplied

Applications

- > Supports category 6 (class E) networks running up to 250 MHz applications
- > Backwards compatible with category 5e distribution systems

Conformance

- > Category 6
- > ISO/IEC 11801 : 2002
- > ANSI/EIA/TIA 568B.2.1
- > RoHS

Technical Specifications

MECHANICAL	VALUE
Housing Material	PC UL94V-0
IDC Material	Phosphor Bronze Stamp Pin 0.35mm
Contact Material	Phosphor Bronze + Gold Plating 0.50mm
RJ45 Jack Life	Min 750 Insertions
IDC Life	Min 250 Terminations



SINGLEBLANK
50x12.5mm
Box of 100pcs



HALFBLANK
50x25mm
Box of 50pcs



All loaded faceplates include this style of keystone jack
UL approved

Category 6 Loaded European Outlets



CAT6+FACE4PFRA
86x147mm - Box of 10pcs

CAT6+FACE2PFRA
86x86mm - Box of 10pcs



Category 6 Unshielded Twisted Pair (UTP) loaded European outlets conform to class E performance. These outlets come fully complete, with all items snapped into place, ready for termination, reducing the time usually spent unpacking, fitting

and terminating various plastic components. They are available in a number of variations (please see product range table) all are supplied in boxes of 10pcs and conform to European standard dimensions.

Features

- > Fully loaded / completed outlets
- > Keystone / module options
- > Wiring diagrams, mini cable ties supplied
- > Reduced installation time
- > Fixing screws, labelling supplied
- > Supplied in boxes of 10pcs

Applications

- > Supports category 6 (class E) networks running up to 250 MHz applications
- > Backwards compatible with category 5e distribution systems

Conformance

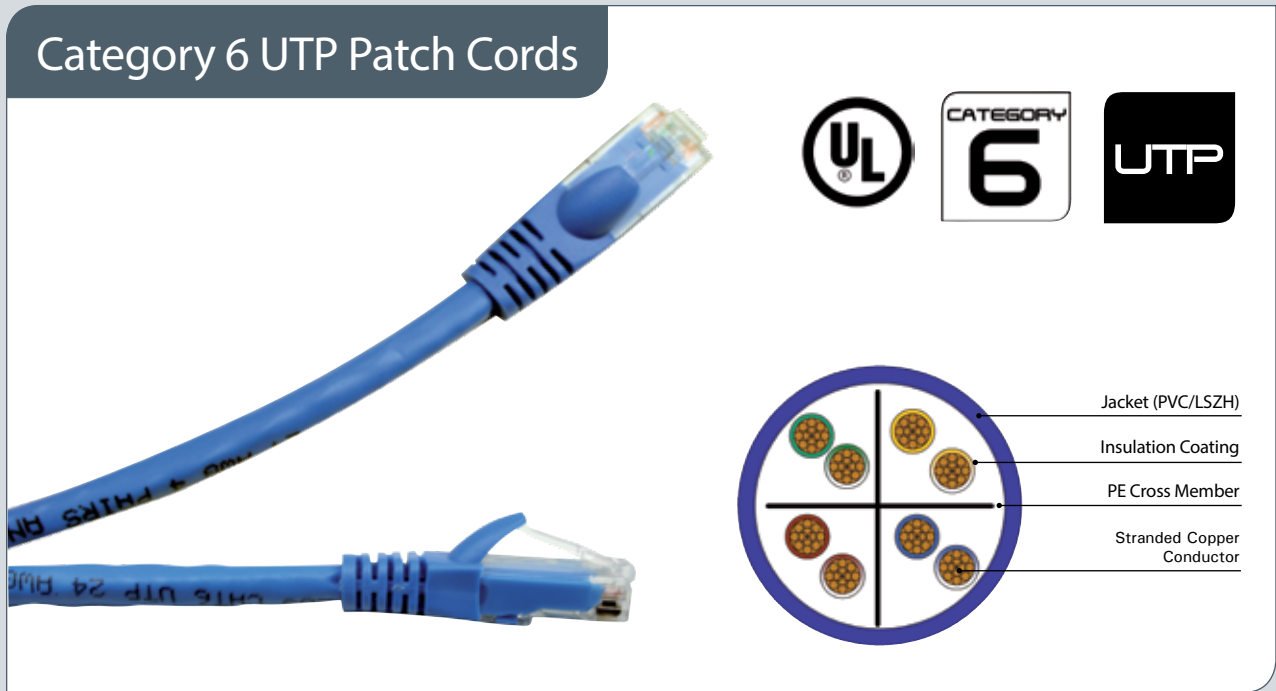
- > Category 6
- > ISO/IEC 11801 : 2002
- > ANSI/EIA/TIA 568B.2 : 2002
- > RoHS

Technical Specifications

MECHANICAL	VALUE
Housing Material	PBT + 15% GF UL94V-0
IDC Material	Phosphor Bronze Stamp Pin 0.35mm
Contact Material	PC UL94V-0 Contact: Phosphor Bronze + Gold Plating
RJ45 Jack Life	Min 750 Insertions
IDC Life	Min 250 Terminations

Ordering Information

DESCRIPTION	PART NUMBER
Category 6 Single Port European Outlet with Jack - Box of 10pcs	CAT6+FACE1PFRA
Category 6 Double Port European Outlet with Jack - Box of 10pcs	CAT6+FACE2PFRA
Category 6 Quad Port European Outlet with Jack - Box of 10pcs	CAT6+FACE4PFRA



Category 6 Unshielded Twisted Pair (UTP) patch cords conform to class E standards. Our patch cords are made to the highest standards, using only quality stranded cable, giving you the best in flexibility, plus top grade 50µ gold plated RJ45 connector plugs, for high quality connections. This combination makes for outstanding performance and reduced degradation.

All patch cords are produced with a injection moulded boot with an easy depression latch cover. Available across 8 colours, 6 standard lengths and in PVC or LSZH jacket varieties. For best performance we recommend you use these as part of a full Optronics category 6 system.

Technical Specifications

CONSTRUCTION		VALUE
Conductors	AWG	24
	Size (mm)	7/0.20 +/- 0.008
	Material	Bare Copper
Insulators	Diameter (mm)	0.98+/-0.05
	Material	Polyolefin
Jacket	External O.D.	6.0 +/- 0.20
	Thickness (mm)	0.5
	Material	PVC or LSZH

Features

- > Quality 24AWG stranded (flexible) cable
- > High grade 50µ gold plated RJ45 connector
- > Injection moulded boot for improved strain relief
- > Soft latch-cover design for easy depression

Applications

- > Supports category 6 (class E) networks running up to 250MHz applications
- > Backwards compatible with category 5e distribution system

Conformance

- > Category 6
- > ISO/IEC 11801 : 2002
- > ANSI/EIA/TIA 568B.2 : 2002
- > RoHS
- > REACH
- > UL listed

Category 6 UTP Patch Cords

PVC

	PART NUMBER	METRE
BLUE	UTP6BL0.5-PVC	0.5
	UTP6BL1-PVC	1
	UTP6BL2-PVC	2
	UTP6BL3-PVC	3
	UTP6BL5-PVC	5
	UTP6BL10-PVC	10
GREEN	UTP6GN0.5-PVC	0.5
	UTP6GN1-PVC	1
	UTP6GN2-PVC	2
	UTP6GN3-PVC	3
	UTP6GN5-PVC	5
	UTP6GN10-PVC	10
ORANGE	UTP6OR0.5-PVC	0.5
	UTP6OR1-PVC	1
	UTP6OR2-PVC	2
	UTP6OR3-PVC	3
	UTP6OR5-PVC	5
	UTP6OR10-PVC	10

	PART NUMBER	METRE
YELLOW	UTP6YE0.5-PVC	0.5
	UTP6YE1-PVC	1
	UTP6YE2-PVC	2
	UTP6YE3-PVC	3
	UTP6YE5-PVC	5
	UTP6YE10-PVC	10
RED	UTP6RD0.5-PVC	0.5
	UTP6RD1-PVC	1
	UTP6RD2-PVC	2
	UTP6RD3-PVC	3
	UTP6RD5-PVC	5
	UTP6RD10-PVC	10
WHITE	UTP6WH0.5-PVC	0.5
	UTP6WH1-PVC	1
	UTP6WH2-PVC	2
	UTP6WH3-PVC	3
	UTP6WH5-PVC	5
	UTP6WH10-PVC	10

	PART NUMBER	METRE
GREY	UTP6GY0.5-PVC	0.5
	UTP6GY1-PVC	1
	UTP6GY2-PVC	2
	UTP6GY3-PVC	3
	UTP6GY5-PVC	5
	UTP6GY10-PVC	10
BLACK	UTP6BK0.5-PVC	0.5
	UTP6BK1-PVC	1
	UTP6BK2-PVC	2
	UTP6BK3-PVC	3
	UTP6BK5-PVC	5
	UTP6BK10-PVC	10

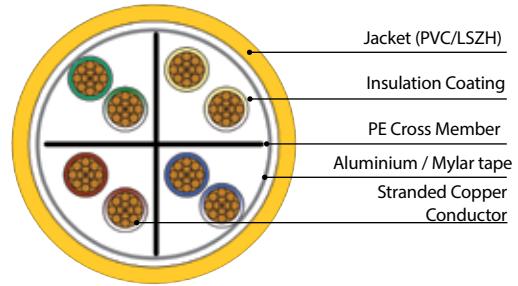
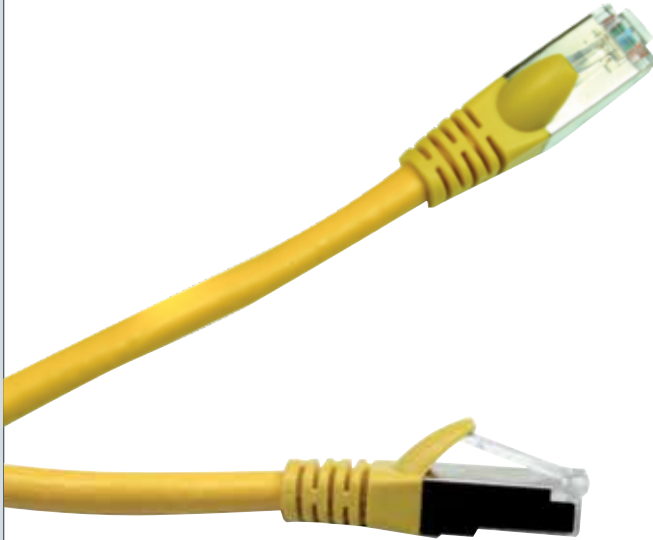
LSZH

	PART NUMBER	METRE
BLUE	UTP6BL0.5-LSZH	0.5
	UTP6BL1-LSZH	1
	UTP6BL2-LSZH	2
	UTP6BL3-LSZH	3
	UTP6BL5-LSZH	5
	UTP6BL10-LSZH	10
GREEN	UTP6GN0.5-LSZH	0.5
	UTP6GN1-LSZH	1
	UTP6GN2-LSZH	2
	UTP6GN3-LSZH	3
	UTP6GN5-LSZH	5
	UTP6GN10-LSZH	10
ORANGE	UTP6OR0.5-LSZH	0.5
	UTP6OR1-LSZH	1
	UTP6OR2-LSZH	2
	UTP6OR3-LSZH	3
	UTP6OR5-LSZH	5
	UTP6OR10-LSZH	10

	PART NUMBER	METRE
YELLOW	UTP6YE0.5-LSZH	0.5
	UTP6YE1-LSZH	1
	UTP6YE2-LSZH	2
	UTP6YE3-LSZH	3
	UTP6YE5-LSZH	5
	UTP6YE10-LSZH	10
RED	UTP6RD0.5-LSZH	0.5
	UTP6RD1-LSZH	1
	UTP6RD2-LSZH	2
	UTP6RD3-LSZH	3
	UTP6RD5-LSZH	5
	UTP6RD10-LSZH	10
WHITE	UTP6WH0.5-LSZH	0.5
	UTP6WH1-LSZH	1
	UTP6WH2-LSZH	2
	UTP6WH3-LSZH	3
	UTP6WH5-LSZH	5
	UTP6WH10-LSZH	10

	PART NUMBER	METRE
GREY	UTP6GY0.5-LSZH	0.5
	UTP6GY1-LSZH	1
	UTP6GY2-LSZH	2
	UTP6GY3-LSZH	3
	UTP6GY5-LSZH	5
	UTP6GY10-LSZH	10
BLACK	UTP6BK0.5-LSZH	0.5
	UTP6BK1-LSZH	1
	UTP6BK2-LSZH	2
	UTP6BK3-LSZH	3
	UTP6BK5-LSZH	5
	UTP6BK10-LSZH	10

Category 6 FTP Patch Cords



Category 6 Foiled Twisted Pair (FTP) patch cords conform to class E standards. Our patch cords are made to the highest standards, using only quality stranded cable, giving you the best in flexibility, plus, top grade 50µ gold plated RJ45 connector plugs, giving high quality connections. This combination makes for outstanding performance and reduced degradation. Aluminium tape is used to shield all 4 pairs; this gives a screened protection

against external interference such as EMI.

All patch cords are produced with a injection moulded boot with easy depression latch cover. Available across 8 colours, 6 standard lengths and in PVC or LSZH jacket varieties. For best performance we recommend you use these as part of a full Optronics category 6 system.

Technical Specifications

CONSTRUCTION		VALUE
Conductors	AWG	26
	Size (mm)	0.915 +/- 0.008
	Material	Bare Copper
Insulators	Diameter (mm)	0.97 +/- 0.05
	Material	Polyolefin
Jacket	External O.D.	6.0 +/- 0.20
	Thickness (mm)	0.5
	Material	PVC or LSZH
Tape	Material	Mylar & Aluminium Mylar
	Coverage (%)	125

Features

- > Quality 26 AWG stranded (flexible) cable
- > High grade 50µ gold plated RJ45 connector
- > injection moulded boot for improved strain relief
- > Soft latch-cover design for easy depression

Applications

- > Supports category 6 (class E) networks running up to 250 MHz applications
- > Ideal for environments where heavy external interference can disrupt signal such as EMI
- > Backwards compatible with category 5e distribution system

Conformance

- > Category 6
- > ISO/IEC 11801 : 2002
- > ANSI/EIA/TIA 568B.2 : 2002
- > RoHS
- > REACH
- > UL listed

Category 6 FTP Patch Cords

PVC

	PART NUMBER	METRE
BLUE	FTP6BL0.5-PVC	0.5
	FTP6BL1-PVC	1
	FTP6BL2-PVC	2
	FTP6BL3-PVC	3
	FTP6BL5-PVC	5
	FTP6BL10-PVC	10
GREEN	FTP6GN0.5-PVC	0.5
	FTP6GN1-PVC	1
	FTP6GN2-PVC	2
	FTP6GN3-PVC	3
	FTP6GN5-PVC	5
	FTP6GN10-PVC	10
ORANGE	FTP6OR0.5-PVC	0.5
	FTP6OR1-PVC	1
	FTP6OR2-PVC	2
	FTP6OR3-PVC	3
	FTP6OR5-PVC	5
	FTP6OR10-PVC	10

	PART NUMBER	METRE
YELLOW	FTP6YE0.5-PVC	0.5
	FTP6YE1-PVC	1
	FTP6YE2-PVC	2
	FTP6YE3-PVC	3
	FTP6YE5-PVC	5
	FTP6YE10-PVC	10
RED	FTP6RD0.5-PVC	0.5
	FTP6RD1-PVC	1
	FTP6RD2-PVC	2
	FTP6RD3-PVC	3
	FTP6RD5-PVC	5
	FTP6RD10-PVC	10
WHITE	FTP6WH0.5-PVC	0.5
	FTP6WH1-PVC	1
	FTP6WH2-PVC	2
	FTP6WH3-PVC	3
	FTP6WH5-PVC	5
	FTP6WH10-PVC	10

	PART NUMBER	METRE
GREY	FTP6GY0.5-PVC	0.5
	FTP6GY1-PVC	1
	FTP6GY2-PVC	2
	FTP6GY3-PVC	3
	FTP6GY5-PVC	5
	FTP6GY10-PVC	10
BLACK	FTP6BK0.5-PVC	0.5
	FTP6BK1-PVC	1
	FTP6BK2-PVC	2
	FTP6BK3-PVC	3
	FTP6BK5-PVC	5
	FTP6BK10-PVC	10

LSZH

	PART NUMBER	METRE
BLUE	FTP6BL0.5-LSZH	0.5
	FTP6BL1-LSZH	1
	FTP6BL2-LSZH	2
	FTP6BL3-LSZH	3
	FTP6BL5-LSZH	5
	FTP6BL10-LSZH	10
GREEN	FTP6GN0.5-LSZH	0.5
	FTP6GN1-LSZH	1
	FTP6GN2-LSZH	2
	FTP6GN3-LSZH	3
	FTP6GN5-LSZH	5
	FTP6GN10-LSZH	10
ORANGE	FTP6OR0.5-LSZH	0.5
	FTP6OR1-LSZH	1
	FTP6OR2-LSZH	2
	FTP6OR3-LSZH	3
	FTP6OR5-LSZH	5
	FTP6OR10-LSZH	10

	PART NUMBER	METRE
YELLOW	FTP6YE0.5-LSZH	0.5
	FTP6YE1-LSZH	1
	FTP6YE2-LSZH	2
	FTP6YE3-LSZH	3
	FTP6YE5-LSZH	5
	FTP6YE10-LSZH	10
RED	FTP6RD0.5-LSZH	0.5
	FTP6RD1-LSZH	1
	FTP6RD2-LSZH	2
	FTP6RD3-LSZH	3
	FTP6RD5-LSZH	5
	FTP6RD10-LSZH	10
WHITE	FTP6WH0.5-LSZH	0.5
	FTP6WH1-LSZH	1
	FTP6WH2-LSZH	2
	FTP6WH3-LSZH	3
	FTP6WH5-LSZH	5
	FTP6WH10-LSZH	10

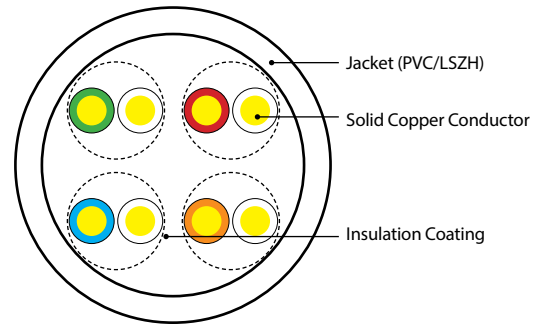
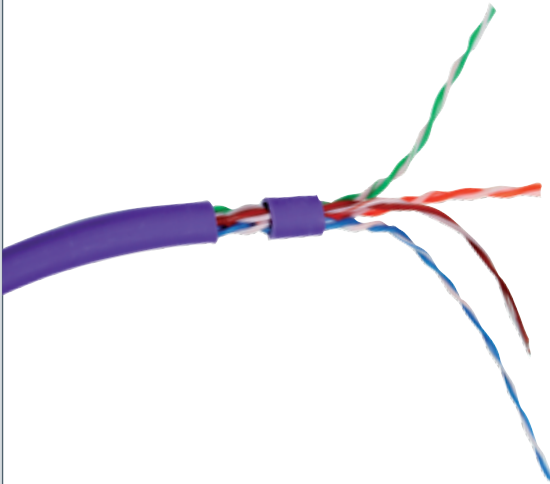
	PART NUMBER	METRE
GREY	FTP6GY0.5-LSZH	0.5
	FTP6GY1-LSZH	1
	FTP6GY2-LSZH	2
	FTP6GY3-LSZH	3
	FTP6GY5-LSZH	5
	FTP6GY10-LSZH	10
BLACK	FTP6BK0.5-LSZH	0.5
	FTP6BK1-LSZH	1
	FTP6BK2-LSZH	2
	FTP6BK3-LSZH	3
	FTP6BK5-LSZH	5
	FTP6BK10-LSZH	10

Optronics Copper Cabling System

Category 5e

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Category 5e UTP Cable



Category 5e Unshielded Twisted Pair (UTP) 100 Ohm cable is produced using a 4 x 2 x 24 AWG copper wire structure to a

class D standard. It supports the gigabit Ethernet protocol for horizontal and backbone installations.

Technical Specifications

CONSTRUCTION		VALUE
Conductors	AWG	24
	Size (mm)	0.50
	Material	Bare Copper
Insulators	Diameter (mm)	0.88+/-0.02
	Material	HDPE
	External O.D.	5.0 +/- 0.3
Jacket	Thickness (mm)	0.50 +/- 0.05
	Material	PVC / LSZH / PE

Features

- > 24 AWG conductor – solid bare copper cable
- > PVC, LSZH and PE options
- > Supplied in 305m box
- > Printed metre marks

Applications

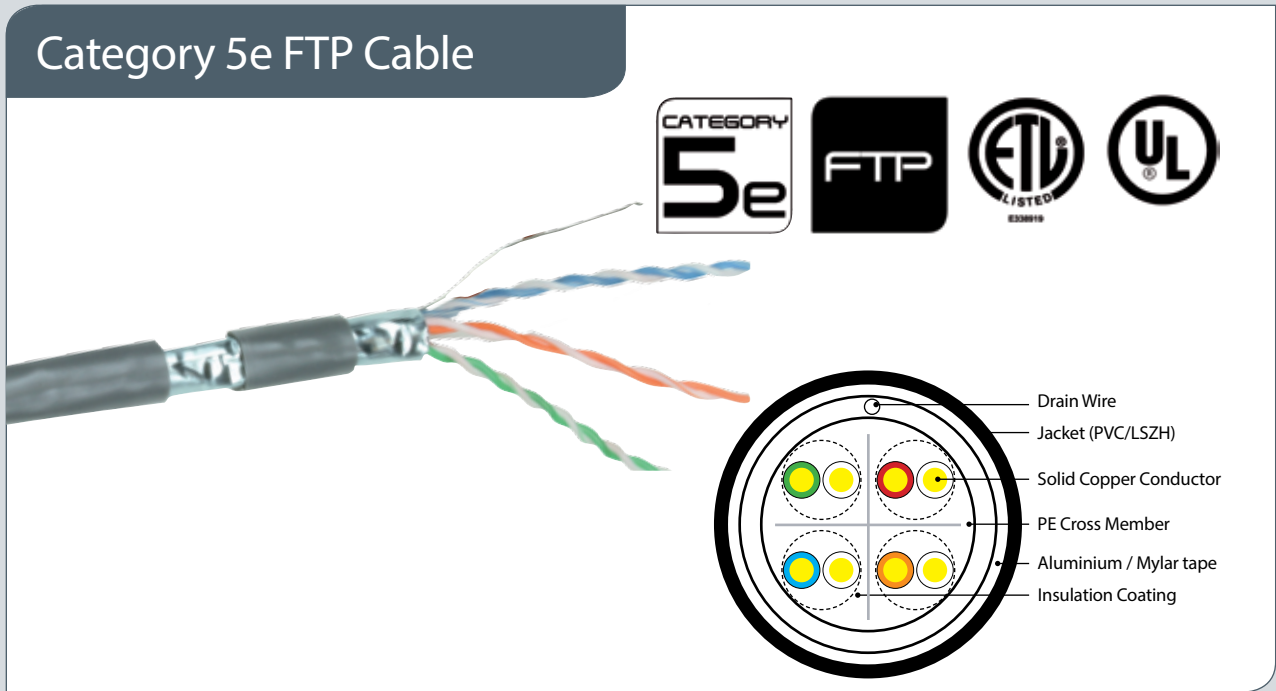
- > Supports category 5e (class D) networks running up to 100 MHz applications
- > Horizontal and backbone installations
- > 10 Base T (IEEE 802.3)
- > Token ring (IEEE 805.5)
- > 100 Base T (IEEE 802.3U)
- > ATM 155
- > 100 VG any LAN (IEEE 802.12)

Conformance

- > Category 5e
- > ANSI/EIA/TIA 568B.2 : 2002
- > ISO/IEC 11801 : 2002
- > RoHS
- > REACH
- > ETL/UL approved

Ordering Information

DESCRIPTION	PART NUMBER
Category 5e Unshielded Twisted Pair (UTP) 24 AWG cable PVC 305m Box - Grey - ETL, UL approved	UTP5E305PVC
Category 5e Unshielded Twisted Pair (UTP) 24 AWG cable LSZH 305m Box - Violet - ETL approved	UTP5E305LSZH
Category 5e Unshielded Twisted Pair (UTP) 24 AWG cable External PE - 305m box	UTP5E305EXT



Category 5e Foiled Twisted Pair (FTP) 100 Ohm cable is produced using a 4 x 2 x 24 AWG copper wire structure to a class D standard. Aluminium tape is used to shield all 4 pairs; this

gives a screened protection against external interference such as EMI. It supports the gigabit Ethernet protocol for horizontal and backbone installations.

Features

- > 24 AWG conductor – solid bare copper
- > PVC, LSZH and PE external jacket
- > Supplied in 305m box
- > Printed metre marks
- > PVC, LSZH and PE options

Applications

- > Supports category 5e (class D) networks running up to 100 MHz applications
- > Ideal for environments where heavy external interference can disrupt signal such as EMI
- > External horizontal and backbone installations
- > 10 Base T (IEEE 802.3)
- > Token ring (IEEE 805.5)
- > 100 Base T (IEEE 802.3U)
- > ATM 155
- > 100 VG any LAN (IEEE 802.12)

Conformance

- > Category 5e
- > ANSI/EIA/TIA 568B.2 : 2002
- > ISO/IEC 11801 : 2002
- > RoHS
- > REACH
- > ETL/UL approved

Technical Specifications

CONSTRUCTION		VALUE
Conductors	AWG	24
	Size (mm)	0.515
	Material	Solid Bare Copper
Insulators	Diameter (mm)	1.03 +/- 0.03
	Material	HDPE
Sheath	Material	Polyester + Aluminium Foil
	External O.D.	6.3 +/- 0.3
Jacket	Thickness (mm)	0.55 +/- 0.05
	Material	PVC / LSZH / PE

Ordering Information

DESCRIPTION	PART NUMBER
Category 5e Foiled Twisted Pair (FTP) cable PVC 305m Box - Grey - ETL, UL approved	FTP5E305PVC
Category 5e Foiled Twisted Pair (FTP) cable LSZH 305m Box - Violet - ETL, UL approved	FTP5E305LSZH
Category 5e Foiled Twisted Pair (FTP) cable PE External Grade - 305m Box - Black	FTP5E305EXT

Category 5e UTP Patch Panel PCB Type

24 Ports 48 Ports



Category 5e Printed Circuit Board (PCB) Unshielded Twisted Pair (UTP) patch panels conform to class D performance. The PCB is fully sealed for extra protection. In-line IDC blocks with wiring

diagram, make termination very quick and easy. Available in 1U 24 ports or 2U 48 ports, all panels are supplied with rear cable management bars and fixings.

Technical Specifications

MECHANICAL	VALUE
Housing Material	PBT + 15% GF UL94V-0
Panel Frame	Carbon Steel, Powder Coating
IDC Material	Phosphor Bronze Stamp Pin 0.35mm
Contact Material	PC UL94V-0 Contact: Phosphor Bronze + Nickel Plating
RJ45 Jack Life	Min 750 Insertions
IDC Life	Min 250 Terminations

Features

- > 19" rack mountable
- > Accepts 24-26 AWG
- > RJ45 24 port 1U or 48 port 2U options
- > Ports numerically identified
- > 110 style IDC punch down
- > Removable label area
- > Rear cable management bar included
- > Supplied with fixings

Applications

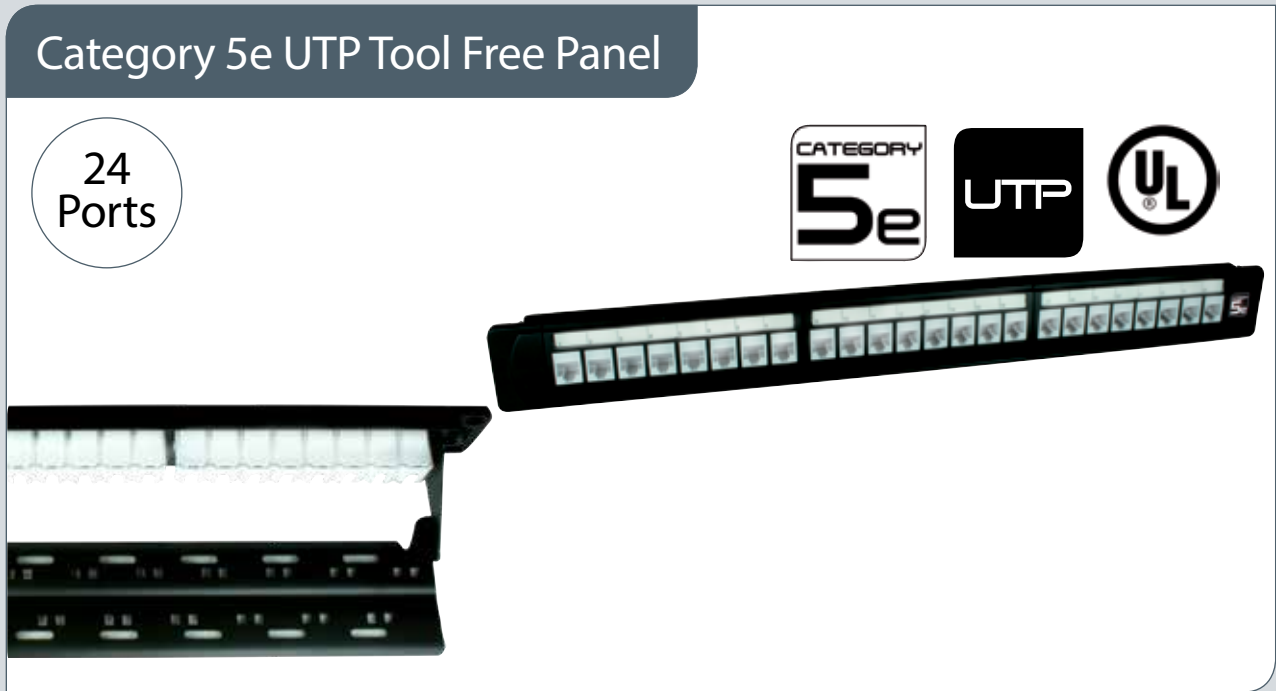
- > Supports category 5e (class D) networks running up to 100 MHz applications

Conformance

- > Category 5e
- > ISO/IEC 11801 : 2002
- > EIA/TIA 568A/B Wiring standard
- > ANSI/EIA/TIA 568B.2 : 2002
- > EN50173-1 : 2002
- > RoHS
- > UL approved

Ordering Information

DESCRIPTION	PART NUMBER
Category 5e Printed Circuit Board (PCB) 1U 24 port patch panel - Black - UL approved	CAT5E+UTP24
Category 5e Printed Circuit Board (PCB) 2U 48 port patch panel Black - UL approved	CAT5E+UTP48



Category 5e Unshielded Twisted Pair (UTP) tool free patch panels conform to class D performance. These panels offer termination using the latest in tool free keystone jack technology. The use of an insertion tool is not required when terminating these

panels, all 8 wires can be loaded and terminated simultaneously, drastically reducing installation time. Available in 1U 24 port format, these panels are supplied fully loaded with 90° tool free jacks, rear management bars and fixings.

Features

- > 19" rack mountable
- > Accepts 24-26 AWG
- > RJ45 24 port 1U
- > Ports numerically identified
- > Loaded with 90° tool free keystone jacks
- > Supplied with fixings
- > Saves valuable installation time
- > Includes rear cable management bar

Technical Specifications

MECHANICAL	VALUE
Housing Material	PC UL94V-0
Panel Frame	Steel Frame, Plastic Coated Clad
IDC Material	Phosphor Bronze Stamp Pin 0.35mm
Contact Material	Phosphor Bronze + Gold Plating 0.50mm
RJ45 Jack Life	Min 750 Insertions
IDC Life	Min 250 Terminations

Applications

- > Supports category 5e (class D) networks running up to 100 MHz applications

Conformance

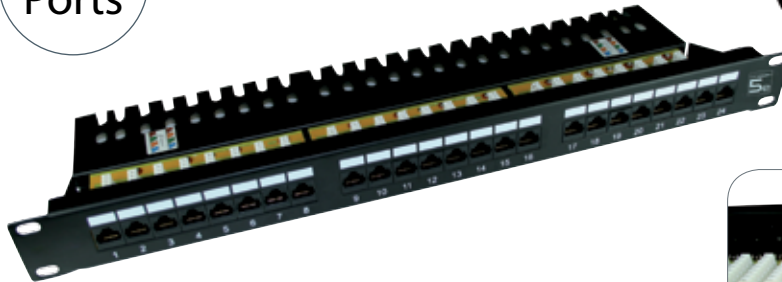
- > Category 5e
- > ISO/IEC 11801 : 2002
- > EIA/TIA 568A/B Wiring standard
- > ANSI/EIA/TIA 568B.2 : 2002
- > EN50173-1 : 2002
- > RoHS
- > UL approved

Ordering Information

DESCRIPTION	PART NUMBER
Category 5e Unshielded Twisted Pair (UTP) Tool Free Keystone 1U 24 Port patch panel - UL approved	CAT5E+UTP24TJ

Category 5e UTP Right Angle Panel

24
Ports



Category 5e Unshielded Twisted Pair (UTP) patch panels conform to class D performance. Each panel is produced using a right angled (90°) frame design, for flat termination onto the IDC block. This ensures that termination and general management is quick and easy when working with bulky horizontal cables.

Integral cable management also provides a solid platform for fixing and managing cable entry. Each port has its own 8 pin IDC block which includes a wiring diagram. Available in 1U 24 port format, panels are supplied with fixings.

Technical Specifications

MECHANICAL	VALUE
Housing Material	PBT + 15% GF UL94V-0
Panel Frame	Carbon Steel, Powder Coating
IDC Material	Phosphor Bronze Stamp Pin 0.35mm
Contact Material	Phosphor Bronze + Gold Plating 0.50mm
RJ45 Jack Life	Min 750 Insertions
IDC Life	Min 250 Terminations

Features

- > 19" rack mountable
- > Accepts 24-26 AWG
- > Right angle (90°) design
- > Ports numerically identified
- > Supplied with fixings
- > Integral cable management
- > RJ45 24 port 1U Panel

Applications

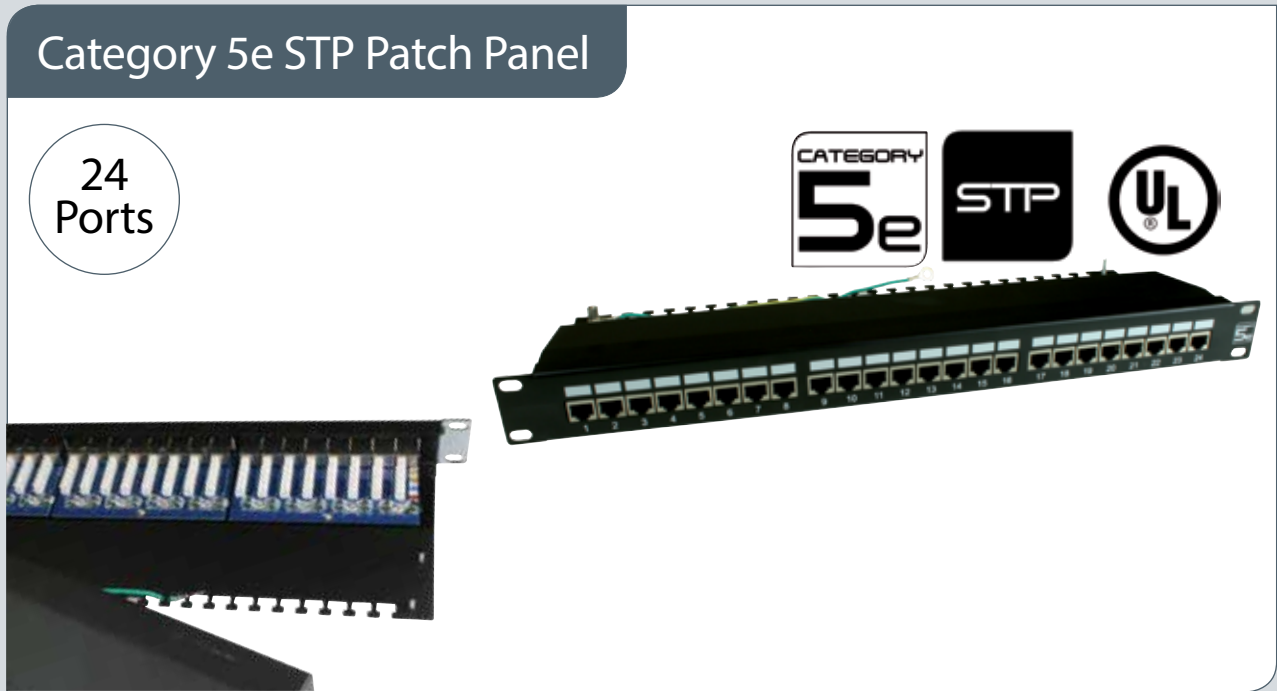
- > Supports category 5e (class D) networks running up to 100 MHz applications

Conformance

- > Category 5e
- > ISO/IEC 11801 : 2002
- > EIA/TIA 568A/B Wiring standard
- > ANSI/EIA/TIA 568B.2 : 2002
- > EN50173-1 : 2002
- > RoHS
- > UL approved

Ordering Information

DESCRIPTION	PART NUMBER
Category 5e Unshielded Twisted Pair (UTP) 1U 24 Port 90 degree patch panel - UL approved	CAT5E +UTP24RA



Category 5e Shielded Twisted Pair (STP) patch panels conform to class D performance. Each shielded panel is produced using a right angled (90°) frame design for flat termination onto the IDC blocks, this ensures termination, grounding and general management is quick and easy when working with category

5e shielded cables. Cable grounding is achieved by using the shielding clamps located to the rear of the integral cable management each port has its own 8 pin IDC block which includes wiring diagram. An overall sliding cover gives extra shielding against EMI and protects terminations.

Features

- > 19" rack mountable clamps
- > Fully shielded
- > Accepts 24-26 AWG
- > Right angle (90°) design
- > Ports numerically identified
- > Supplied with fixings and earthing wire
- > Integral cable management and grounding
- > RJ45 24 port 1U Panel

Technical Specifications

MECHANICAL	VALUE
Housing Material	PC UL94V-0
Panel Frame	Zinc Plating, Powder Coating
IDC Material	Phosphor Bronze Stamp Pin 0.35mm
Contact Material	Phosphor Bronze + Gold Plating 0.50mm
RJ45 Jack Life	Min 750 Insertions
IDC Life	Min 250 Terminations

Applications

- > Supports category 5e (class D) networks running up to 100 MHz applications
- > Fully Screened for high EMI environments

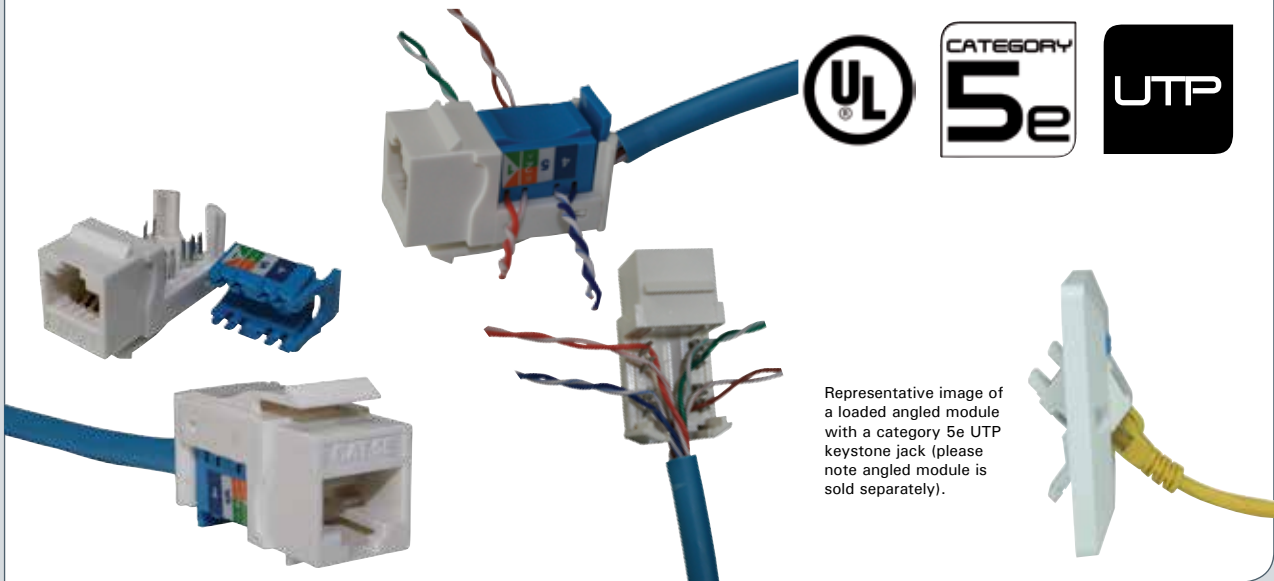
Conformance

- > Category 5e
- > EIA/TIA 568A/B Wiring standard
- > EN50173-1 : 2002
- > SO/IEC 11801 : 2002
- > ANSI/EIA/TIA 568B.2 : 2002
- > RoHS
- > UL approved

Ordering Information

DESCRIPTION	PART NUMBER
Category 5e Shielded Twisted Pair (STP) 1U 24 Port patch panel - UL approved	CAT5E+STP24

Category 5e UTP Tool Free Jack



Category 5e Unshielded Twisted Pair (UTP) tool free keystone jacks conform to class D standards. They follow the industry standard RJ45 footprint and due to the small form design

the keystone jack is perfect for high density applications. No insertion tool is required for diagram. Supplied in white with blue termination cap in packs of 20pcs.

Technical Specifications

MECHANICAL	VALUE
Housing Material	PC UL94V-0
IDC Material	Phosphor Bronze Stamp Pin 0.35mm
Contact Material	Phosphor Bronze + Gold Plating 0.50mm
RJ45 Jack Life	Min 750 Insertions
IDC Life	Min 250 Terminations

Features

- > Small form RJ45 footprint design
- > 90° termination
- > IDC tool free punch down
- > Accepts 24-26 AWG
- > Reduces installation time
- > Supplied in boxes of 20pcs
- > Wiring diagram supplied

Applications

- > Supports category 5e (class D) networks running up to 100 MHz applications
- > Ideal for high density installations

Conformance

- > Category 5e
- > ISO/IEC 11801 : 2002
- > ANSI/EIA/TIA 568B.2 : 2002
- > RoHS
- > UL approved

Ordering Information

DESCRIPTION	PART NUMBER
Cat 5e Unshielded Twisted Pair (UTP) Tool Free keystone jack, White, box of 20pcs, UL approved	CAT5E+TOOLESSJACK



Category 5e Shielded Twisted Pair (STP) keystone jacks conforms to class D performance. They follow the industry standard RJ45

footprint and due to the small form design the keystone jack is perfect for high density applications.

Features

- > Small form RJ45 footprint design
- > 90° termination
- > High performance
- > Fully shielded for EMI protection
- > Wiring diagram and conductor cap supplied
- > Supplied in boxes of 20pcs
- > IDC punch down

Applications

- > Supports category 5e (class D) networks running up to 100 MHz applications
- > Ideal for high density installations
- > Ideal for environments sensitive to EMI

Conformance

- > Category 5e
- > ISO/IEC 11801 : 2002
- > ANSI/EIA/TIA 568B.2 : 2002
- > RoHS
- > UL approved

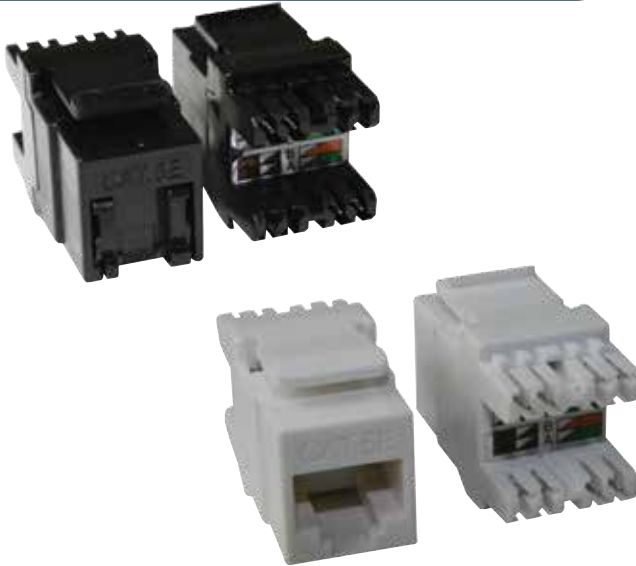
Technical Specifications

MECHANICAL	VALUE
Housing Material	PC UL94V-0
Shielding Material	Brass 0.30mm + Nickel Plating
Insert Material	Flame retardancy ABS UL94V-0
IDC Material	Phosphor Bronze Stamp Pin 0.35mm
Contact Material	Phosphor Bronze + Gold Plating 0.50mm
RJ45 Jack Life	Min 750 Insertions
IDC Life	Min 250 Terminations

Ordering Information

DESCRIPTION	PART NUMBER
Category 5e Shielded Twisted Pair (STP) keystone jack Box of 20pcs - UL approved	CAT5E+JACK180STP

Category 5e UTP Keystone Jack



Representative image of a loaded angled module with a category 5e UTP keystone jack (please note angled module is sold separately).



Category 5e Unshielded Twisted Pair (UTP) keystone jacks conform to class D performance. They follow the industry standard keystone jack footprint. Due to their small form design they are perfect for high density applications.

Each keystone jack is available with 180° termination design, with wiring diagram and conductor protection cap. They can be supplied in black or white variants.

Technical Specifications

MECHANICAL	VALUE
Housing Material	PC UL94V-0
IDC Material	Phosphor Bronze Stamp Pin 0.35mm
Contact Material	Phosphor Bronze + Gold Plating 0.50mm
RJ45 Jack Life	Min 750 Insertions
IDC Life	Min 250 Terminations

Features

- > Small form RJ45 footprint design
- > IDC punch down
- > 180° termination
- > High performance
- > Available in black/white, with or without shutter
- > Wiring diagram and conductor cap supplied
- > Supplied in boxes of 20pcs

Applications

- > Supports category 5e (class D) networks running up to 100 MHz applications
- > Ideal for high density installations

Ordering Information

DESCRIPTION	PART NUMBER
Category 5e Unshielded Twisted Pair (UTP) keystone jack White Box of 20pcs - UL approved	CAT5E+JACK180WH
Category 5e Unshielded Twisted Pair (UTP) keystone jack Black - Box of 20pcs - UL approved	CAT5E+JACK180BK
Category 5e Unshielded Twisted Pair (UTP) Shuttered keystone jack White - Box of 20pcs - UL approved	CAT5E+JACK180WHS
Category 5e Unshielded Twisted Pair (UTP) Shuttered keystone jack Black - Box of 20pcs - UL approved	CAT5E+JACK180BKS

Conformance

- > Category 5e
- > ISO/IEC 11801 : 2002
- > ANSI/EIA/TIA 568B.2 : 2002
- > RoHS
- > UL approved

Category 5e UTP Bevelled Loaded Faceplates



FACEPLATE2PBEV
Single gang - 2 position
86x86mm - Box of 10pcs



CAT5E+FACE1PBEVJ
Angled module and jack
86x86mm - Box of 10pcs



CAT5E+FACE2PBEVJ
Angled module and jack
86x86mm - Box of 10pcs



FACEPLATE4PBEV
Double gang - 4 position
86x147mm - Box of 10pcs



CAT5E+FACE4PBEVJ
Angled module and jack
86x147mm - Box of 10pcs



ANGLEDMODULE
Box of 20pcs



SINGLEBLANK
50x12.5mm
Box of 100pcs



HALFBLANK
50x25mm
Box of 50pcs



All loaded faceplates include this style of keystone jack

Features

- > Fully loaded / completed outlets
- > Reduced installation time
- > Wiring diagram and mini cable tie supplied
- > Supplied in boxes of 10pcs
- > Fixing screws, labelling supplied

Applications

- > Supports category 5e (class D) networks running up to 100MHz applications

Conformance

- > Category 5e
- > SO/IEC 11801 : 2002
- > ANSI/EIA/TIA 568B.2 : 2002
- > RoHS

Technical Specifications

MECHANICAL	VALUE
Housing Material	PC UL94V-0
IDC Material	Phosphor Bronze Stamp Pin 0.35mm
Contact Material	Phosphor Bronze + Gold Plating 0.50mm
RJ45 Jack Life	Min 750 Insertions
IDC Life	Min 250 Terminations

Category 5e UTP Flat Loaded Faceplates



FACEPLATE2PFLAT
Single gang - 2 position
86x86mm - Box of 10pcs



CAT5E+FACE1PFLTJ
Angled module and jack
86x86mm - Box of 10pcs



CAT5E+FACE2PFLTJ
Angled module and jack
86x86mm - Box of 10pcs



FACEPLATE4PFLAT
Double gang - 4 position
86x147mm - Box of 10pcs



CAT5E+FACE4PFLTJ
Angled module and jack
86x147mm - Box of 10pcs

Features

- > Fully loaded / completed outlets
- > Reduced installation time
- > Wiring diagram and mini cable tie supplied
- > Supplied in boxes of 10pcs
- > Fixing screws, labelling supplied

Applications

- > Supports category 5e (class D) networks running up to 100MHz applications

Conformance

- > Category 5e
- > SO/IEC 11801 : 2002
- > ANSI/EIA/TIA 568B.2 : 2002
- > RoHS

Technical Specifications

MECHANICAL	VALUE
Housing Material	PBT + 15% GF UL94V-0
IDC Material	Phosphor Bronze Stamp Pin 0.35mm
Contact Material	Phosphor Bronze + Gold Plating 0.50mm
RJ45 Jack Life	Min 750 Insertions
IDC Life	Min 250 Terminations



ANGLEDMODULE
Box of 20pcs



SINGLEBLANK
50x12.5mm
Box of 100pcs



HALFBLANK
50x25mm
Box of 50pcs



All loaded faceplates include this style of keystone jack

Category 5e UTP Euro Module



Representative image of a loaded angled module with a category 5e UTP keystone jack (please note angled module is sold separately).

Category 5e Unshielded Twisted Pair (UTP) 25x50mm shuttered, moulded, modules (Euro Mod) conform to class D performance. They feature a slim line design, which is an ideal solution for shallow floor box or dado trunking Applications.

Each module is supplied with a slide in label area, for easy and clear outlet identification, and a mini cable-tie. Suits British standard faceplates only.

Features

- > Complete shuttered module with PCB technology
- > Slim line design for shallow Applications
- > IDC punch down
- > Wiring diagram and mini cable tie supplied
- > Supplied in boxes of 20pcs
- > Compatible with Optronics UK faceplates

Technical Specifications

MECHANICAL	VALUE
Housing Material	PC UL94V-0
IDC Material	Phosphor Bronze Stamp Pin 0.35mm
Contact Material	Phosphor Bronze + Gold Plating 0.50mm
RJ45 Jack Life	Min 750 Insertions
IDC Life	Min 250 Terminations

Applications

- > Supports category 5e (class D) networks running up to 100 MHz applications

Conformance

- > Category 5e
- > ANSI/EIA/TIA 568B.2 : 2002
- > ISO/IEC 11801 : 2002
- > RoHS
- > UL approved

Ordering Information

DESCRIPTION	PART NUMBER
Category 5e Unshielded Twisted Pair (UTP) 50x25mm Shuttered Moulded Module White - Box of 20pcs - UL approved	CAT5EFACEMODULE

Category 5e UTP Bevelled Euro Faceplates

FACEPLATE2PBEV
Single gang - 2 position
86x86mm - Box of 10pcs



CAT5E+FACE1PBEVM
Euro module and Jack
86x86mm - Box of 10pcs



CAT5E+FACE2PBEVM
Euro module and Jack
86x86mm - Box of 10pcs



FACEPLATE4PBEV
Double gang - 4 position
86x147mm - Box of 10pcs



CAT5E+FACE4PBEVM
Euro module and Jack
86x147mm - Box of 10pcs



SINGLEBLANK
50x12.5mm
Box of 100pcs



HALFBLANK
50x25mm
Box of 50pcs



All loaded faceplates include this style of keystone jack
UL approved

Features

- > Fully loaded / completed outlets
- > Reduced installation time
- > Wiring diagram and mini cable tie supplied
- > Supplied in boxes of 10pcs
- > Fixing screws labelling supplied

Applications

- > Supports category 5e (class D) networks running up to 100 MHz applications

Conformance

- > Category 5e
- > ISO/IEC 11801 : 2002
- > ANSI/EIA/TIA 568B.2.1
- > RoHS

Technical Specifications

MECHANICAL	VALUE
Housing Material	PC UL94V-0
IDC Material	Phosphor Bronze Stamp Pin 0.35mm
Contact Material	Phosphor Bronze + Gold Plating 0.50mm
RJ45 Jack Life	Min 750 Insertions
IDC Life	Min 250 Terminations

Category 5e UTP Flat Loaded Euro Module

FACEPLATE2PFLAT
Single gang - 2 position
85x85mm - Box of 10pcs



FACEPLATE4PFLAT
Double gang - 4 position
85x147mm - Box of 10pcs



CAT5E+FACE1PFLTM
Euro module and jack
85x85mm - Box of 10pcs



CAT5E+FACE2PFLTM
Euro module and jack
85x85mm - Box of 10pcs



CAT5E+FACE4PFLTM
Euro module and jack
85x147mm - Box of 10pcs



Features

- > Fully loaded / completed outlets
- > Reduced installation time
- > Wiring diagram and mini cable tie supplied
- > Supplied in boxes of 10pcs
- > Fixing screws labelling supplied

Applications

- > Supports category 5e (class D) networks running up to 100 MHz applications

Conformance

- > Category 5e
- > ISO/IEC 11801 : 2002
- > ANSI/EIA/TIA 55E8B.2.1
- > RoHS



SINGLEBLANK
50x12.5mm
Box of 100pcs



HALFBLANK
50x25mm
Box of 50pcs



All loaded faceplates include this style of keystone jack
UL approved

Technical Specifications

MECHANICAL	VALUE
Housing Material	PC UL94V-0
IDC Material	Phosphor Bronze Stamp Pin 0.35mm
Contact Material	Phosphor Bronze + Gold Plating 0.50mm
RJ45 Jack Life	Min 750 Insertions
IDC Life	Min 250 Terminations

Category 5e Loaded European Outlets



CAT5E+FACE2PFRA
85x85mm - Box of 10pcs



CAT5E+FACE4PFRA
85x147mm - Box of 10pcs



Category 5e Unshielded Twisted Pair (UTP) loaded European outlets conform to class E performance. These outlets come fully complete, with all items snapped into place, ready for termination, reducing the time usually spent unpacking, fitting

and terminating various plastic components. They are available in a number of variations (please see product range table) all are supplied in boxes of 10pcs and conform to European standard dimensions.

Features

- > Fully loaded / completed outlets
- > Keystone / module options
- > Wiring diagrams, mini cable ties supplied
- > Reduced installation time
- > Fixing screws, labelling supplied
- > Supplied in boxes of 10pcs

Applications

- > Supports category 5e (class D) networks running up to 100 MHz applications

Conformance

- > Category 5e
- > ISO/IEC 11801 : 2002
- > ANSI/EIA/TIA 55E8B.2 : 2002
- > RoHS

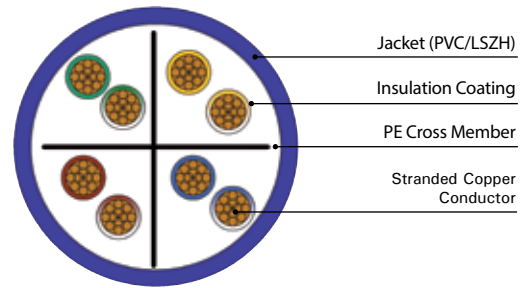
Technical Specifications

MECHANICAL	VALUE
Housing Material	PC UL94V-0
IDC Material	Phosphor Bronze Stamp Pin 0.35mm
Contact Material	PC UL94V-0 Contact: Phosphor Bronze + Gold Plating
RJ45 Jack Life	Min 750 Insertions
IDC Life	Min 250 Terminations

Ordering Information

DESCRIPTION	PART NUMBER
Category 5e Single Port European Outlet with Jack - Box of 10pcs	CAT5E+FACE1PFRA
Category 5e Double Port European Outlet with Jack - Box of 10pcs	CAT5E+FACE2PFRA
Category 5e Quad Port European Outlet with Jack - Box of 10pcs	CAT5E+FACE4PFRA

Category 5e UTP Patch Cords



Category 5e Unshielded Twisted Pair (UTP) patch cords conform to class D standards. Our patch cords are made to the highest standards, using only quality stranded cable, giving you the best in flexibility, plus, top grade 50µ gold plated RJ45 connector plugs for high quality connections. This combination makes for outstanding performance and reduced degradation.

All patch cords are produced with a injection moulded boot with an easy depression latch cover. Available across 8 colours, 6 standard lengths and in PVC or LSZH jacket varieties. For best performance we recommend these as part of a full Optronics category 5e system.

Features

- > Quality 24 AWG stranded (flexible) cable
- > High grade 50µ gold plated RJ45 connector
- > Injection moulded boot for improved strain relief
- > Soft latch-cover design for easy depression

Applications

- > Supports category 5e (class D) networks running up to 100 MHz applications

Conformance

- > Category 5e
- > ISO/IEC 11801 : 2002
- > ANSI/EIA/TIA 568B.2 : 2002
- > RoHS
- > REACH
- > UL listed

Technical Specifications

CONSTRUCTION		VALUE
Conductors	AWG	24
	Size (mm)	7/0.20 +/- 0.008
	Material	Bare Copper
Insulators	Diameter (mm)	0.98+/-0.05
	Material	Polyolefin
Jacket	External O.D.	6.0 +/- 0.20
	Thickness (mm)	0.5
	Material	PVC or LSZH

Category 5e UTP Patch Cords

PVC

	PART NUMBER	METRE
BLUE	UTP5EBL0.5-PVC	0.5
	UTP5EBL1-PVC	1
	UTP5EBL2-PVC	2
	UTP5EBL3-PVC	3
	UTP5EBL5-PVC	5
	UTP5EBL10-PVC	10
GREEN	UTP5EGN0.5-PVC	0.5
	UTP5EGN1-PVC	1
	UTP5EGN2-PVC	2
	UTP5EGN3-PVC	3
	UTP5EGN5-PVC	5
	UTP5EGN10-PVC	10
ORANGE	UTP5EOR0.5-PVC	0.5
	UTP5EOR1-PVC	1
	UTP5EOR2-PVC	2
	UTP5EOR3-PVC	3
	UTP5EOR5-PVC	5
	UTP5EOR10-PVC	10

	PART NUMBER	METRE
YELLOW	UTP5EYE0.5-PVC	0.5
	UTP5EYE1-PVC	1
	UTP5EYE2-PVC	2
	UTP5EYE3-PVC	3
	UTP5EYE5-PVC	5
	UTP5EYE10-PVC	10
RED	UTP5ERD0.5-PVC	0.5
	UTP5ERD1-PVC	1
	UTP5ERD2-PVC	2
	UTP5ERD3-PVC	3
	UTP5ERD5-PVC	5
	UTP5ERD10-PVC	10
WHITE	UTP5EWH0.5-PVC	0.5
	UTP5EWH1-PVC	1
	UTP5EWH2-PVC	2
	UTP5EWH3-PVC	3
	UTP5EWH5-PVC	5
	UTP5EWH10-PVC	10

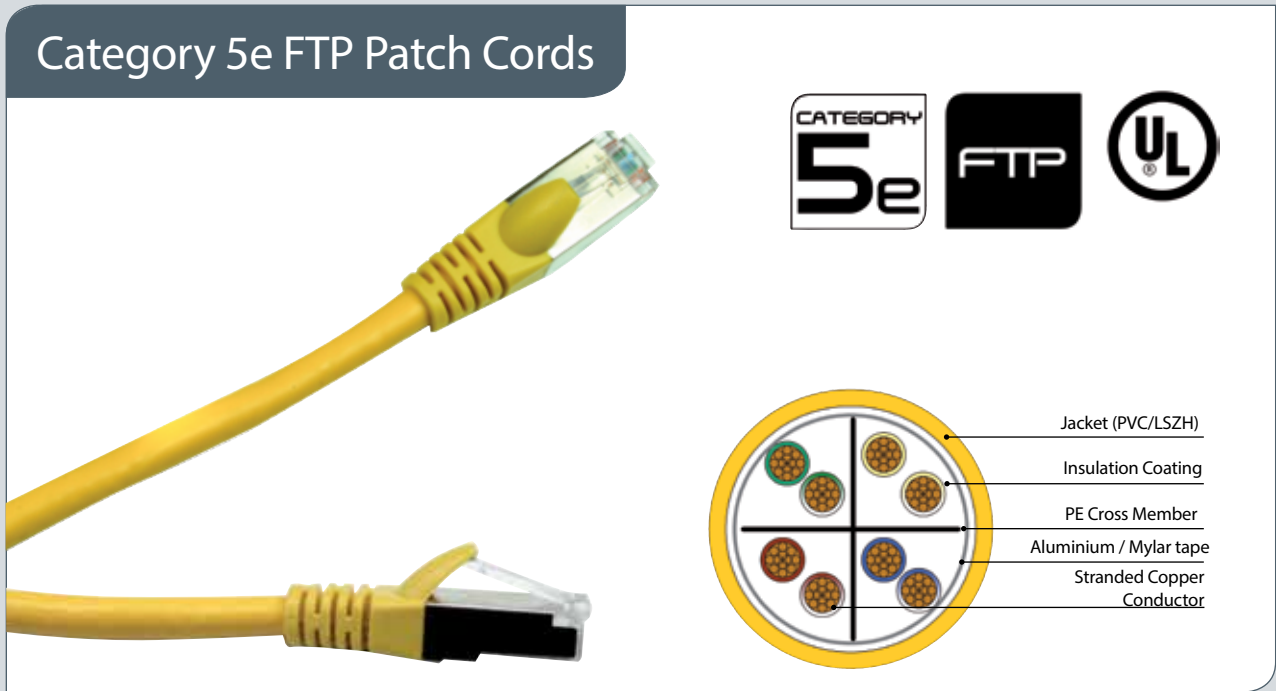
	PART NUMBER	METRE
GREY	UTP5EGY0.5-PVC	0.5
	UTP5EGY1-PVC	1
	UTP5EGY2-PVC	2
	UTP5EGY3-PVC	3
	UTP5EGY5-PVC	5
	UTP5EGY10-PVC	10
BLACK	UTP5EBK0.5-PVC	0.5
	UTP5EBK1-PVC	1
	UTP5EBK2-PVC	2
	UTP5EBK3-PVC	3
	UTP5EBK5-PVC	5
	UTP5EBK10-PVC	10

LSZH

	PART NUMBER	METRE
BLUE	UTP5EBL0.5-LSZH	0.5
	UTP5EBL1-LSZH	1
	UTP5EBL2-LSZH	2
	UTP5EBL3-LSZH	3
	UTP5EBL5-LSZH	5
	UTP5EBL10-LSZH	10
GREEN	UTP5EGN0.5-LSZH	0.5
	UTP5EGN1-LSZH	1
	UTP5EGN2-LSZH	2
	UTP5EGN3-LSZH	3
	UTP5EGN5-LSZH	5
	UTP5EGN10-LSZH	10
ORANGE	UTP5EOR0.5-LSZH	0.5
	UTP5EOR1-LSZH	1
	UTP5EOR2-LSZH	2
	UTP5EOR3-LSZH	3
	UTP5EOR5-LSZH	5
	UTP5EOR10-LSZH	10

	PART NUMBER	METRE
YELLOW	UTP5EYE0.5-LSZH	0.5
	UTP5EYE1-LSZH	1
	UTP5EYE2-LSZH	2
	UTP5EYE3-LSZH	3
	UTP5EYE5-LSZH	5
	UTP5EYE10-LSZH	10
RED	UTP5ERD0.5-LSZH	0.5
	UTP5ERD1-LSZH	1
	UTP5ERD2-LSZH	2
	UTP5ERD3-LSZH	3
	UTP5ERD5-LSZH	5
	UTP5ERD10-LSZH	10
WHITE	UTP5EWH0.5-LSZH	0.5
	UTP5EWH1-LSZH	1
	UTP5EWH2-LSZH	2
	UTP5EWH3-LSZH	3
	UTP5EWH5-LSZH	5
	UTP5EWH10-LSZH	10

	PART NUMBER	METRE
GREY	UTP5EGY0.5-LSZH	0.5
	UTP5EGY1-LSZH	1
	UTP5EGY2-LSZH	2
	UTP5EGY3-LSZH	3
	UTP5EGY5-LSZH	5
	UTP5EGY10-LSZH	10
BLACK	UTP5EBK0.5-LSZH	0.5
	UTP5EBK1-LSZH	1
	UTP5EBK2-LSZH	2
	UTP5EBK3-LSZH	3
	UTP5EBK5-LSZH	5
	UTP5EBK10-LSZH	10



Category 5e Foiled Twisted Pair (FTP) patch cords conform to class D standards. Our patch cords are made to the highest standards, using only quality stranded cable, giving you the best in flexibility, plus, top grade 50µ gold plated RJ45 connector plugs, for high quality connections. This combination makes for outstanding performance and reduced degradation. Aluminium tape is used to shield all 4 pairs; this gives a screened protection

against external interference such as EMI. All patch cords are produced with a injection moulded boot with easy depression latch cover. Available across 8 colours, 6 standard lengths and in PVC or LSZH jacket varieties. For best performance we recommend these as part of a full Optronics category 5e system.

Features

- > Quality 26 AWG stranded (flexible) cable
- > High grade 50µ gold plated RJ45 connector
- > Injection moulded boot for improved strain relief
- > Soft latch-cover design for easy depression

Applications

- > Supports category 5e (class D) networks running up to 100 MHz applications
- > Ideal for environments where heavy external interference can disrupt signal such as EMI

Conformance

- > Category 5e
- > ISO/IEC 11801 : 2002
- > ANSI/EIA/TIA 568B.2 : 2002
- > RoHS
- > REACH
- > UL listed

Technical Specifications

CONSTRUCTION		VALUE
Conductors	AWG	26
	Size (mm)	0.915 +/- 0.008
	Material	Bare Copper
Insulators	Diameter (mm)	0.97 +/- 0.05
	Material	Polyolefin
Jacket	External O.D.	6.0 +/- 0.20
	Thickness (mm)	0.5
	Material	PVC or LSZH
Tape	Material	Mylar & Aluminium Mylar
	Coverage (%)	125

Category 5e FTP Patch Cords

PVC

	PART NUMBER	METRE
BLUE	FTP5EBL0.5-PVC	0.5
	FTP5EBL1-PVC	1
	FTP5EBL2-PVC	2
	FTP5EBL3-PVC	3
	FTP5EBL5-PVC	5
	FTP5EBL10-PVC	10
GREEN	FTP5EGN0.5-PVC	0.5
	FTP5EGN1-PVC	1
	FTP5EGN2-PVC	2
	FTP5EGN3-PVC	3
	FTP5EGN5-PVC	5
	FTP5EGN10-PVC	10
ORANGE	FTP5EOR0.5-PVC	0.5
	FTP5EOR1-PVC	1
	FTP5EOR2-PVC	2
	FTP5EOR3-PVC	3
	FTP5EOR5-PVC	5
	FTP5EOR10-PVC	10

	PART NUMBER	METRE
YELLOW	FTP5EYE0.5-PVC	0.5
	FTP5EYE1-PVC	1
	FTP5EYE2-PVC	2
	FTP5EYE3-PVC	3
	FTP5EYE5-PVC	5
	FTP5EYE10-PVC	10
RED	FTP5ERD0.5-PVC	0.5
	FTP5ERD1-PVC	1
	FTP5ERD2-PVC	2
	FTP5ERD3-PVC	3
	FTP5ERD5-PVC	5
	FTP5ERD10-PVC	10
WHITE	FTP5EWH0.5-PVC	0.5
	FTP5EWH1-PVC	1
	FTP5EWH2-PVC	2
	FTP5EWH3-PVC	3
	FTP5EWH5-PVC	5
	FTP5EWH10-PVC	10

	PART NUMBER	METRE
GREY	FTP5EGY0.5-PVC	0.5
	FTP5EGY1-PVC	1
	FTP5EGY2-PVC	2
	FTP5EGY3-PVC	3
	FTP5EGY5-PVC	5
	FTP5EGY10-PVC	10
BLACK	FTP5EBK0.5-PVC	0.5
	FTP5EBK1-PVC	1
	FTP5EBK2-PVC	2
	FTP5EBK3-PVC	3
	FTP5EBK5-PVC	5
	FTP5EBK10-PVC	10

LSZH

	PART NUMBER	METRE
BLUE	FTP5EBL0.5-LSZH	0.5
	FTP5EBL1-LSZH	1
	FTP5EBL2-LSZH	2
	FTP5EBL3-LSZH	3
	FTP5EBL5-LSZH	5
	FTP5EBL10-LSZH	10
GREEN	FTP5EGN0.5-LSZH	0.5
	FTP5EGN1-LSZH	1
	FTP5EGN2-LSZH	2
	FTP5EGN3-LSZH	3
	FTP5EGN5-LSZH	5
	FTP5EGN10-LSZH	10
ORANGE	FTP5EOR0.5-LSZH	0.5
	FTP5EOR1-LSZH	1
	FTP5EOR2-LSZH	2
	FTP5EOR3-LSZH	3
	FTP5EOR5-LSZH	5
	FTP5EOR10-LSZH	10

	PART NUMBER	METRE
YELLOW	FTP5EYE0.5-LSZH	0.5
	FTP5EYE1-LSZH	1
	FTP5EYE2-LSZH	2
	FTP5EYE3-LSZH	3
	FTP5EYE5-LSZH	5
	FTP5EYE10-LSZH	10
RED	FTP5ERD0.5-LSZH	0.5
	FTP5ERD1-LSZH	1
	FTP5ERD2-LSZH	2
	FTP5ERD3-LSZH	3
	FTP5ERD5-LSZH	5
	FTP5ERD10-LSZH	10
WHITE	FTP5EWH0.5-LSZH	0.5
	FTP5EWH1-LSZH	1
	FTP5EWH2-LSZH	2
	FTP5EWH3-LSZH	3
	FTP5EWH5-LSZH	5
	FTP5EWH10-LSZH	10

	PART NUMBER	METRE
GREY	FTP5EGY0.5-LSZH	0.5
	FTP5EGY1-LSZH	1
	FTP5EGY2-LSZH	2
	FTP5EGY3-LSZH	3
	FTP5EGY5-LSZH	5
	FTP5EGY10-LSZH	10
BLACK	FTP5EBK0.5-LSZH	0.5
	FTP5EBK1-LSZH	1
	FTP5EBK2-LSZH	2
	FTP5EBK3-LSZH	3
	FTP5EBK5-LSZH	5
	FTP5EBK10-LSZH	10

OptronicsPlus Copper Cabling System

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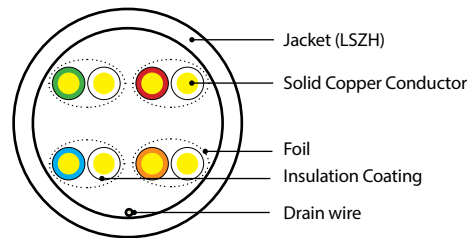
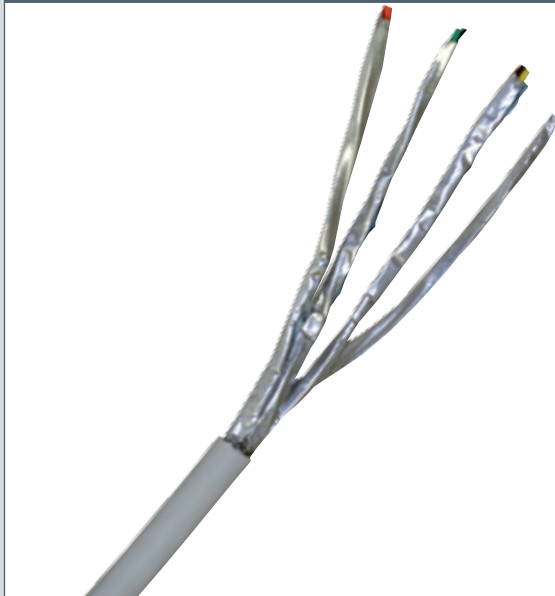
OptronicsPlus
Copper Cabling System

Category 6_A

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Category 6_A U/FTP Low Smoke Zero Halogen Cable



OptronicsPlus category 6_A U/FTP LSZH cable is designed to deliver robust standards based performance ensuring optimum bandwidth for today's high speed network applications. The cable is designed to support horizontal networking applications over distances up to 100 metres.

Our category 6_A U/FTP LSZH cable exceeds the minimum specified performance for category 6_A U/FTP cables and support all class EA applications as defined within ISO/IEC 11801 (2nd Edition): 2010 such as 100GBASE-T (Gigabit Ethernet), 2G FCBASE-T, 4G FCBASE-T and 1000BASE-T (Gigabit Ethernet).

Applicable Standards

The category 6_A U/FTP LSZH cable is manufactured and tested directly in accordance with the major industry standards:

- > ISO/IEC 11801 2nd Edition
- > ANSI/TIA 568-C.2
- > EN 50173
- > IEC 61156-5
- > EN 50288-3-1

Fire Performance

Category 6_A U/FTP LSZH cables exceed the requirements of:

- > IEC 60332-1-2
- > IEC 60754-2
- > IEC 61034

Other Relevant Information

- > REACH / SvHC Compliant regulation (EC) No. 1907/2006
- > Pair colour code:
 - Pair 1: Orange and White/Orange
 - Pair 2: Blue and White/Blue
 - Pair 3: Brown and White/Brown
 - Pair 4: Green and White/Green

Category 6_A U/FTP Low Smoke Zero Halogen Cable

Technical Specifications

CONSTRUCTION	
Conductors	A single strand of 23AWG (0.574mm) solid copper
Insulation	Expanded Polyethylene
Cable	8 insulated wires formed into 4 pairs. Each pair is individually screened with an aluminised polyester tape. (The aluminium side of the tape is in continuous contact with the tinned copper drain wire)
Screen	An aluminised polyester tape screen applied with a 15% minimum overlap (The aluminium side is in continuous contact with the tinned copper drain wire.)
Sheath	A uniform layer of violet coloured low smoke zero halogen (LSZH) compound (RAL 4005)
Diameter	7.2mm

ELECTRICAL PROPERTIES AT 20°C		
Characteristic Impedance	(1-100MHz) (100 - 250MHz)	100 ± 15Ω 100 ± 18Ω
DC Loop Resistance		≤ 19.0Ω/100m
Resistance Unbalance		≤ 2%
Capacitance Unbalance to Earth		≤ 1600 pF/km
Delay Skew		≤ 40ns/100m @ 100MHz
Nominal Velocity of Propagation		78%
Propagation Delay (Nominal)		≤ 534ns/100m
Test Voltage (d.c. for 1 minute) Conductor /Conductor		1000V
Insulation Resistance (500V d.c)		≥ 500MΩ.km
Transfer Impedance		≥ 55dB

Mechanical Characteristics

TEMPERATURE RANGE	
Operation	-20°C to + 60°C
Installation	0°C to +50°C
Storage	-20°C to + 70°C

MINIMUM BEND RADII	
Installation	8 x cable diameter
Installed	4 x cable diameter

MAXIMUM TENSILE FORCE	
During Installation	100N

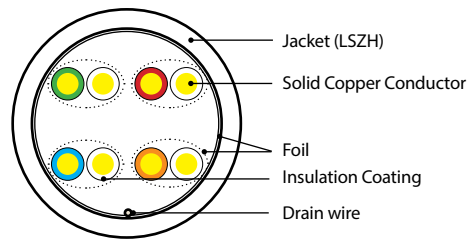
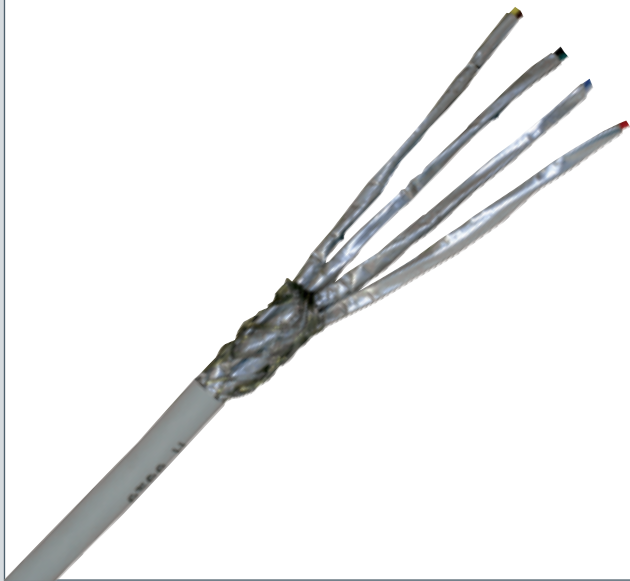
Transmission line performance at 20°C

FREQUENCY MHZ	ATTENUATION dB/100M	NEXT MIN dB	ACR MIN dB	PSNEXT MIN dB	ELFEXT MIN dB	PSELFEXT MIN dB	PSANEXT MIN dB	RETURN LOSS
1	1.8	95.	93.2	95.0	68.0	65.0	-	-
4	3.8	66.3	62.5	66.3	58.0	55.0	76.5	23
10	5.9	60.3	54.4	60.3	50.0	47.0	72.5	25
20	8.4	55.8	47.4	55.8	44.0	41.0	69.5	25
62.5	15.0	48.4	33.4	48.4	34.1	31.1	64.5	21.5
100	19.1	45.3	26.2	45.3	30.0	27.0	62.5	20.1
250	31.1	39.3	8.2	39.3	22.0	19.0	56.5	17.3
500	45.3	34.8	-10.5	34.8	16.0	13.0	52.0	17.3

Ordering Information

DESCRIPTION	PART NUMBER
Category 6 _A U/FTP LSZH 500m Reel	UFTP6A500LSZH

Category 6_A S/FTP Low Smoke Zero Halogen Cable



OptronicsPlus 6_A S/FTP LSZH cables is designed to deliver robust standards based performance ensuring optimum bandwidth for today's high speed network applications. The cable is designed to support horizontal networking applications over distances up to 100 metres. Cable performance is routinely verified by the independent testing laboratory 3P as part of an ongoing

maintenance programme. Our category 6_A S/FTP LSZH cable exceeds the minimum specified performance for category 6_A S/FTP cables and support all class EA applications as defined within ISO/IEC 11801 (2nd Edition): 2010 such as 100GBASE-T (Gigabit Ethernet), 2G FCBASE-T, 4G FCBASE-T and 1000BASE-T (Gigabit Ethernet).

Applicable Standards

The category 6_A S/FTP LSZH cable is manufactured and tested directly in accordance with the major industry standards:

- > ISO/IEC 11801 2nd Edition
- > ANSI/TIA 568-C.2
- > EN 50173
- > IEC 61156-5
- > EN 50288-3-1

Fire Performance

Category 6_A S/FTP LSZH cables exceed the requirements of:

- > IEC 60332-1-2
- > IEC 60754-2
- > IEC 61034

Other Relevant Information

- > REACH / SvHC Compliant regulation (EC) No. 1907/2006
- > Pair colour code:
 - Pair 1: Orange and White/Orange
 - Pair 2: Blue and White/Blue
 - Pair 3: Brown and White/Brown
 - Pair 4: Green and White/Green

Category 6_A S/FTP Low Smoke Zero Halogen Cable

Technical Specifications

CONSTRUCTION	
Conductors	A single strand of 23AWG (0.574mm) solid copper
Insulation	Expanded Polyethylene
Cable	8 insulated wires formed into 4 pairs. Each pair is individually screened with an aluminised polyester tape. (The aluminium side of the tape is in continuous contact with the tinned copper drain wire)
Screen	An aluminised polyester tape screen applied with a 15% minimum overlap (The aluminium side is in continuous contact with the tinned copper drain wire.)
Sheath	A uniform layer of violet coloured low smoke zero halogen (LSZH) compound (RAL 4005)

ELECTRICAL PROPERTIES AT 200C		
Characteristic Impedance	(1-100MHz) (100 - 250MHz)	100 ± 15Ω 100 ± 18Ω
DC Loop Resistance		≤ 19.0Ω/100m
Resistance Unbalance		≤ 2%
Capacitance Unbalance to Earth		≤ 1600 pF/km
Delay Skew		≤ 40ns/100m @ 100MHz
Nominal Velocity of Propagation		78%
Propagation Delay (Nominal)		≤ 534ns/100m
Test Voltage (d.c. for 1 minute) Conductor /Conductor		1000V
Insulation Resistance (500V d.c)		≥ 500MΩ.km
Transfer Impedance		≥ 55dB

Mechanical Characteristics

TEMPERATURE RANGE	
Operation	-20°C to + 60°C
Installation	0°C to +50°C
Storage	-20°C to + 70°C

MINIMUM BEND RADII	
Installation	8 x cable diameter
Installed	4 x cable diameter

MAXIMUM TENSILE FORCE	
During Installation	100N

Transmission line performance at 20°C

FREQUENCY MHz	ATTENUATION dB/100M	NEXT MIN dB	ACR MIN dB	PSNEXT MIN dB	ELFEXT MIN dB	PSELFEXT MIN dB	PSANEXT MIN dB	RETURN LOSS
1	1.8	95.	93.2	95.0	68.0	65.0	-	-
4	3.8	66.3	62.5	66.3	58.0	55.0	76.5	23
10	5.9	60.3	54.4	60.3	50.0	47.0	72.5	25
20	8.4	55.8	47.4	55.8	44.0	41.0	69.5	25
62.5	15.0	48.4	33.4	48.4	34.1	31.1	64.5	21.5
100	19.1	45.3	26.2	45.3	30.0	27.0	62.5	20.1
250	31.1	39.3	8.2	39.3	22.0	19.0	56.5	17.3
500	45.3	34.8	-10.5	34.8	16.0	13.0	52.0	17.3

Ordering Information

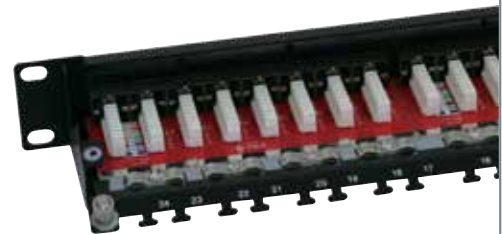
DESCRIPTION	PART NUMBER
Category 6 _A S/FTP LSZH 500m Reel	SFTP6A500LSZH

Screened Category 6_A RJ45 Patch Panel

24
Ports



Front view



Rear view

OptronicPlus category 6_A patch panel exceeds the transmission line performance requirements of IEC and TIA for class EA/category 6_A systems. The panels are designed for mechanical and electrical reliability, using quality materials and processes, to deliver a panel solution which delivers a consistent high level

of systems performance. Each category 6_A patch panel complies with the requirements of ISO/IEC 11801 (2nd Edition): 2010 and support all applications designed for class EA/category 6_A applications including 10GBASE-T (10 Gigabit Ethernet), 2G FCBASE-T, 4G FCBASE-T and 1000BASE-T (Gigabit Ethernet).

Features

- > 19" rack mountable
- > 24 ports in 1U space
- > 8 - port RJ45 modules
- > Finger screw - easy open screen cover
- > Universal wiring blocks for easy termination
- > Right-angled wiring block orientation for easier installation
- > Colour coded wiring blocks for easy cable lacing
- > Integral rear cable management
- > Durability:
 - Socket Contacts: 750 plug insertion cycles minimum
 - Wiring block: 25 termination cycles minimum
- > Earthing kit and cage nuts included as standard
- > Part of the 25 year Optronic systems warranty programme

Applications

- > Class EA/category 6_A standards compliant
- > Independent third party verified performance
- > Terminates 22AWG to 26AWG cables

Conformance

- > Electrically compliant beyond 500MHz
- > Supports TIA 568A & B wiring configurations
- > REACH / SvHC compliant regulation (EC) No. 1907/2006

Ordering Information

DESCRIPTION	PART NUMBER
Screened category 6 _A patch panel, 24 port Black 1U	800-001

Screened Category 6_A "High Density" RJ45 Patch Panel

48
Ports



Front view

Rear view

OptronicPlus category 6_A "High Density" patch panel exceeds the transmission line performance requirements of IEC and TIA for class EA/category 6_A systems. These are 'real' cabinet space saving products designed for mechanical and electrical performance reliability. The "High Density" panel delivers a consistent high level of systems performance whilst halving

the cabinet space required in high density installations. Each category 6_A "High Density" patch panel complies with the requirements of ISO/IEC 11801 (2nd Edition): 2010 and support all applications designed for class EA/category 6_A applications such as 10GBASE-T (10 Gigabit Ethernet), 2G FCBASE-T, 4G FCBASE-T and 1000BASE-T (Gigabit Ethernet).

Features

- > 19" rack mountable
- > 48 ports in 1U space
- > 8 - port RJ45 modules
- > Finger screw - easy open screen cover
- > Universal wiring blocks for easy termination
- > Right-angled wiring block orientation for easier installation
- > Colour coded wiring blocks for easy cable lacing Integral rear cable management
- > Durability:
 - Socket Contacts: 750 plug insertion cycles minimum
 - Wiring block: 25 termination cycles minimum
- > Earthing kit and cage nuts included as standard
- > Part of the 25 year OptronicPlus systems warranty programme

Applications

- > Class EA/category 6_A standards compliant
- > Independent third party verified performance
- > Terminates 22AWG to 26AWG cables

Conformance

- > Electrically compliant beyond 500MHz
- > Supports TIA 568A & B wiring configurations
- > REACH / SvHC compliant regulation (EC) No. 1907/2006

Ordering Information

DESCRIPTION	PART NUMBER
Screened category 6 _A "HD" patch panel, 48 port Black 1U	800-002

Tool free Screened 6_A RJ45 Keystone Jack



Top view

OptronicPlus category 6_A Screened Tool Free Modular RJ45 Jacks exceed the transmission line performance requirements of IEC and TIA for class EA/category 6_A systems. Their compact design has been engineered to optimise density in high performance applications such as data centres. Designed for mechanical and electrical reliability, using quality materials, to deliver a jack solution that minimises

the time required by the installer to complete each termination. Each category 6_A Screened RJ45 keystone jack complies with IEC 60603-7-Pt 51 (screened) and support all applications designed for class EA networks, as defined within ISO/IEC 11801 (2nd Edition): 2010 including 10GBASE-T (10 Gigabit Ethernet), 2G FCBASE-T, 4G FCBASE-T and 1000BASE-T (Gigabit Ethernet).

Features

- > Screened, for reliable transmission line performance
- > Repeatable tool-free terminations
- > Interoperable and backwards compatible
- > Spring loaded 360o screen termination
- > Colour coded stuffer-cap for easy cable lacing
- > Keyed stuffer-cap for reliable termination
- > Low insertion force `clam action` assists tool-free termination. (LSA & 110 punch-down tools can also be used to effect termination)
- > Durability:
 - Jack contacts: 750 plug insertion cycles minimum
 - Wiring block: 25 termination cycles minimum
- > Fits all keystone style face plates and floor boxes
- > Integral cable strain relief
- > Suitable for modular patch panel installation
- > Part of the 25 year Optronic systems warranty programme

Applications

- > Independent third party verified component performance
- > Electrically compliant through 500MHz

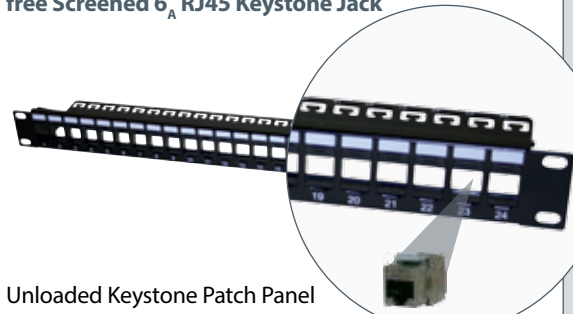
Conformance

- > Class EA/category 6_A standards compliant
- > Supports TIA 568A & B wiring configurations
- > REACH / SvHC compliant regulation (EC) No. 1907/2006

Ordering Information

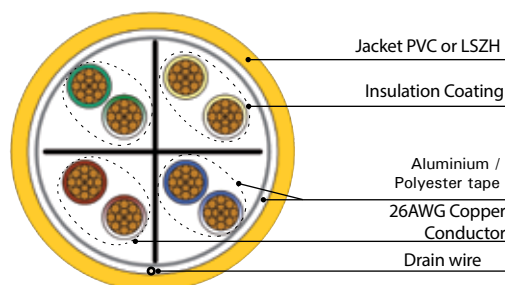
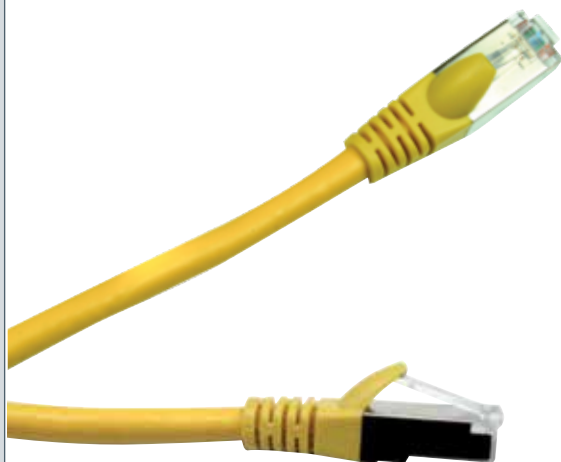
DESCRIPTION	PART NUMBER
Screened category 6 _A Tool Free keystone jack	800-101
Unloaded Keystone patch panel	400-001

Unloaded Keystone Patch Panel for use with Tool free Screened 6_A RJ45 Keystone Jack



Unloaded Keystone Patch Panel
Part Number: 400-001

S/FTP Category 6_A Patch Cords



OptronicPlus category 6_A Screened patch cords exceed the transmission line performance requirements of IEC and TIA for class EA/category 6_A systems. The products are designed for mechanical and electrical reliability using quality materials and processes to produce a patch cord solution which delivers a consistent high level of systems performance whilst incorporating design features that allow a “one style fits all” cord application. The low profile moulded boot and snag free

latching allows the patch cords to be deployed within even the most densely populated network installations utilising the latest blade server technology. Each category 6_A patch cord is manufactured and tested in accordance with IEC 61935-2 and comply with the requirements of ISO/IEC 11801 (2nd Edition): 2010 and TIA 568C and support all applications designed for class EA/category 6_A applications such as ATM 1200, 1000BASE-T (Gigabit Ethernet) and 1G FCBASE-T.

Features

- > Electrically compliant beyond 250MHz
- > Low Smoke Zero Halogen / PVC sheathed cable
- > Low profile moulded strain relief boot for use with blade servers
- > PimF style cable (Individual foil screened pairs with overall foil screen)
- > Screened category 6_A RJ45 plug
- > Integral anti-snag latch as standard
- > 8 standard colours
- > 7 standard lengths (1m, 2m, 3m, 5m, 10m, 15m, & 20m)
- > Other lengths and colours available upon request*
- > Individually bagged with traceability information
- > Part of the 25 year OptronicPlus systems warranty programme

* Subject to MOQ

Applications

- > Class EA/category 6_A standards compliant

Conformance

- > REACH / SvHC compliant regulation (EC) No. 1907/2006

Technical Specifications

CONSTRUCTION		VALUE
Conductors	AWG	26
	Size (mm)	7/0.20 +/- 0.008
	Material	Bare Copper
Insulators	Diameter (mm)	0.97 +/- 0.05
	Material	Polyolefin
Jacket	External O.D.	6.0 +/- 0.20
	Thickness (mm)	0.5
	Material	PVC or LSZH
Tape	Material	Aluminium/Polyester
	Coverage (%)	125

S/FTP Category 6_A Patch Cords

PVC

	PART NUMBER	METRE
GREY	991-101	1
	991-102	2
	991-103	3
	991-105	5
	991-110	10
	991-115	15
	991-120	20
RED	991-201	1
	991-202	2
	991-203	3
	991-205	5
	991-210	10
	991-215	15
	991-220	20
BLUE	991-301	1
	991-302	2
	991-303	3
	991-305	5
	991-310	10
	991-315	15
	991-320	20

	PART NUMBER	METRE
YELLOW	991-401	1
	991-402	2
	991-403	3
	991-405	5
	991-410	10
	991-415	15
	991-520	20
GREEN	991-501	1
	991-502	2
	991-503	3
	991-505	5
	991-510	10
	991-515	15
	991-520	20
WHITE*	991-601	1
	991-602	2
	991-603	3
	991-605	5
	991-610	10
	991-615	15
	991-620	20

	PART NUMBER	METRE
BLACK*	991-701	1
	991-702	2
	991-703	3
	991-705	5
	991-710	10
	991-715	15
	991-720	20
ORANGE*	991-801	1
	991-802	2
	991-803	3
	991-805	5
	991-810	10
	991-815	15
	991-820	20

*White, Orange and Black may be subject to minimum order quantities

LSZH

	PART NUMBER	METRE
GREY	992-101	1
	992-102	2
	992-103	3
	992-105	5
	992-110	10
	992-115	15
	992-120	20
RED	992-201	1
	992-202	2
	992-203	3
	992-205	5
	992-210	10
	992-215	15
	992-220	20

	PART NUMBER	METRE
YELLOW	992-401	1
	992-402	2
	992-403	3
	992-405	5
	992-410	10
	992-415	15
	992-420	20
GREEN	992-501	1
	992-502	2
	992-503	3
	992-505	5
	992-510	10
	992-515	15
	992-520	20

	PART NUMBER	METRE
BLACK*	992-701	1
	992-702	2
	992-703	3
	992-705	5
	992-710	10
	992-715	15
	992-720	20
ORANGE*	992-801	1
	992-802	2
	992-803	3
	992-805	5
	992-810	10
	992-815	15
	992-820	20

*White, Orange and Black may be subject to minimum order quantities

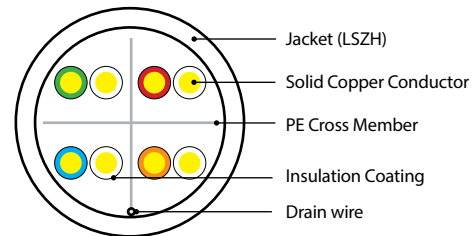
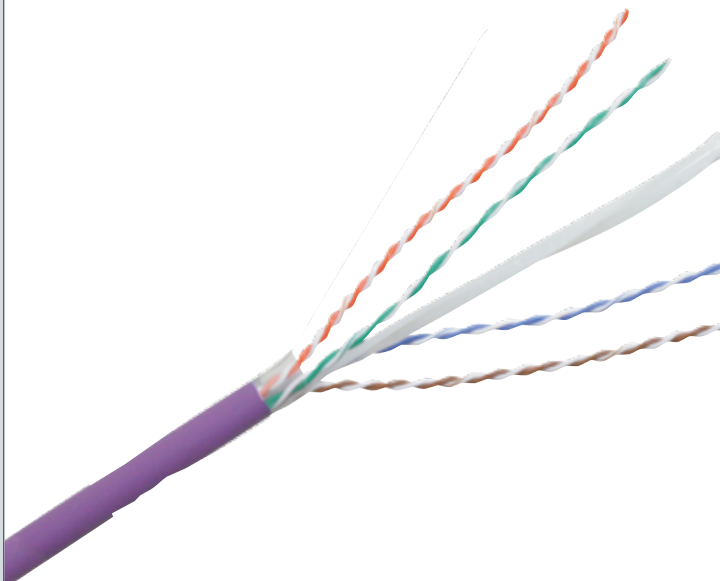
OptronicPlus
Copper Cabling System

Category 6

Cable	74
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Keystone Jacks	85
Shuttered Modules	88
Patch Cords	89



Category 6 U/UTP Low Smoke Zero Halogen Cable



OptronicsPlus category 6 U/UTP LSZH cable is designed to deliver a robust standards based performance ensuring optimum bandwidth for today's high speed network applications. The cable is designed to support horizontal networking applications over distances up to 100 metres.

Our category 6 U/UTP LSZH cable exceeds the minimum specified performance for category 6 U/UTP cables and support all class E applications as defined within ISO/IEC 11801 (2nd Edition): 2010 such as 1000BASE-T (Gigabit Ethernet), ATM-155, 100BASE-Tx, Token Ring 100Mbs-1, and 1G FCBASE-T.

Applicable Standards

The category 6 U/UTP LSZH cable is manufactured and tested directly in accordance with the major industry standards:

- > ISO/IEC 11801 2nd Edition
- > ANSI/TIA 568-C.2
- > EN 50173
- > IEC 61156-5
- > EN 50288-3-1

Fire Performance

Category 6 U/UTP LSZH cables exceed the requirements of:

- > IEC 60332-1-2
- > IEC 60754-2
- > IEC 61034

Other Relevant Information

- > REACH / SvHC Compliant regulation (EC) No. 1907/2006
- > Pair colour code:
 - Pair 1: Orange and White/Orange
 - Pair 2: Blue and White/Blue
 - Pair 3: Brown and White/Brown
 - Pair 4: Green and White/Green

Category 6 U/UTP Low Smoke Zero Halogen Cable

Technical Specifications

CONSTRUCTION	
Conductors	A single strand of 23AWG (0.574mm) solid copper
Insulation	Polyethylene
Cable	8 insulated wires formed into 4 pairs. The 4 pairs are subsequently cabled together around a polyethylene cross-filler to form a cohesive unit.
Sheath	A uniform layer of violet coloured low smoke zero halogen (LSZH) compound (RAL 4005)
Diameter	6.0mm

ELECTRICAL PROPERTIES AT 20°C	
Characteristic Impedance (1-100MHz)	100 ± 15Ω
DC Loop Resistance	≤ 19.0Ω/100m
Resistance Unbalance	≤ 2%
Capacitance Unbalance to Earth	≤ 1600 pF/km
Delay Skew	≤ 40ns/100m @ 100MHz
Nominal Velocity of Propagation	67%
Propagation Delay (Nominal)	≤ 534ns/100m
Test Voltage (d.c. for 1 minute) Conductor /Conductor	1000V
Insulation Resistance (500V d.c)	≥ 500MΩ.km
Transfer Impedance	≥ 40dB

Mechanical Characteristics

TEMPERATURE RANGE	
Operation	-20°C to + 60°C
Installation	0°C to +50°C
Storage	-20°C to + 70°C

MINIMUM BEND RADII	
Installation	8 x cable diameter
Installed	4 x cable diameter

MAXIMUM TENSILE FORCE	
During Installation	100N

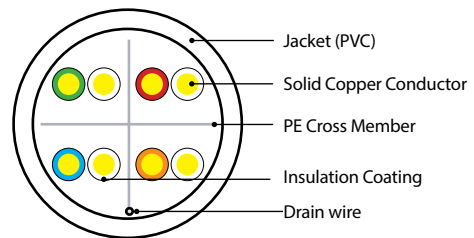
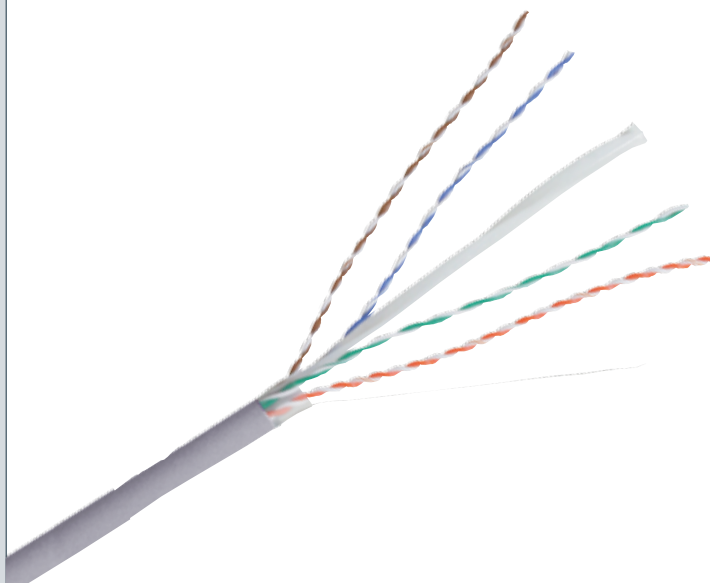
Transmission line performance at 20°C

FREQUENCY MHZ	ATTENUATION dB/100M	42.0NEXT dB38.3	ACR dB/100M	PSNEXT dB	ELFEXT dB/100M	PSELFEXT dB/100M	RETURN LOSS
1	2.1	74.0	71.9	72.0	68	65	20
4	3.8	65.3	61.5	63.3	56	53	23
10	6.0	59.3	53.3	57.3	48	45	25
16	7.6	56.0	48.4	54.0	44	41	25
20	9.3	45.8	36.5	42.8	42	39	25
62.5	17.0	38.4	21.4	35.4	32	29	21.5
100	22.0	35.3	13.3	32.3	28	25	20.1
125	22.5	43.0	20.5	41.0	26	23	19.5
155.5	25.4	42.0	16.6	40.0	24	21	18.8
250	33.0	38.3	5.3	32.3	20	17	17.3

Ordering Information

DESCRIPTION	PART NUMBER
Category 6 U/UTP LSZH 305m Box	UTP6305LSZH
Category 6 U/UTP LSZH 500m Reel	UTP6500LSZH

Category 6 U/UTP PVC Cable



OptronicPlus category 6 U/UTP PVC cable is designed to deliver a robust standards based performance ensuring optimum bandwidth for today's high speed network applications. The cable is designed to support horizontal networking applications over distances up to 100 metres. Cable performance is routinely verified by the independent testing laboratory 3P as part of an

ongoing maintenance programme. Our category 6 U/UTP PVC cable exceeds the minimum specified performance for category 6 U/UTP cables and support all class E applications as defined within ISO/IEC 11801 (2nd Edition): 2010 such as 1000BASE-T (Gigabit Ethernet), ATM-155, 100BASE-Tx, Token Ring 100Mbs-1, and 1G FCBASE-T.

Applicable Standards

The category 6 U/UTP PVC cable is manufactured and tested directly in accordance with the major industry standards:

- > ISO/IEC 11801 2nd Edition
- > ANSI/TIA 568-C.2
- > EN 50173
- > IEC 61156-5
- > EN 50288-3-1

Fire Performance

Category 6 U/UTP PVC cables exceed the requirements of:

- > IEC 60332-1-2

Other Relevant Information

- > REACH / SvHC Compliant regulation (EC) No. 1907/2006
- > Pair colour code:
 - Pair 1: Orange and White/Orange
 - Pair 2: Blue and White/Blue
 - Pair 3: Brown and White/Brown
 - Pair 4: Green and White/Green

Category 6 U/UTP PVC Cable

Technical Specifications

CONSTRUCTION	
Conductors	A single strand of 23AWG (0.574mm) solid copper
Insulation	Polyethylene
Cable	8 insulated wires formed into 4 pairs. The 4 pairs are subsequently cabled together around a polyethylene cross-filler to form a cohesive unit.
Sheath	A uniform layer of grey coloured polyvinyl chloride (PVC) compound (RAL 7035)
Diameter	6.0mm

ELECTRICAL PROPERTIES AT 20°C	
Characteristic Impedance (1-100MHz)	100 ± 15Ω
DC Loop Resistance	≤ 19.0Ω/100m
Resistance Unbalance	≤ 2%
Capacitance Unbalance to Earth	≤ 1600 pF/km
Delay Skew	≤ 40ns/100m @ 100MHz
Nominal Velocity of Propagation	67%
Propagation Delay (Nominal)	≤ 534ns/100m
Test Voltage (d.c. for 1 minute) Conductor /Conductor	1000V
Insulation Resistance (500V d.c)	≥ 500MΩ.km
Transfer Impedance	≥ 40dB

Mechanical Characteristics

TEMPERATURE RANGE	
Operation	-20°C to + 60°C
Installation	0°C to +50°C
Storage	-20°C to + 70°C

MINIMUM BEND RADII	
Installation	8 x cable diameter
Installed	4 x cable diameter

MAXIMUM TENSILE FORCE	
During Installation	100N

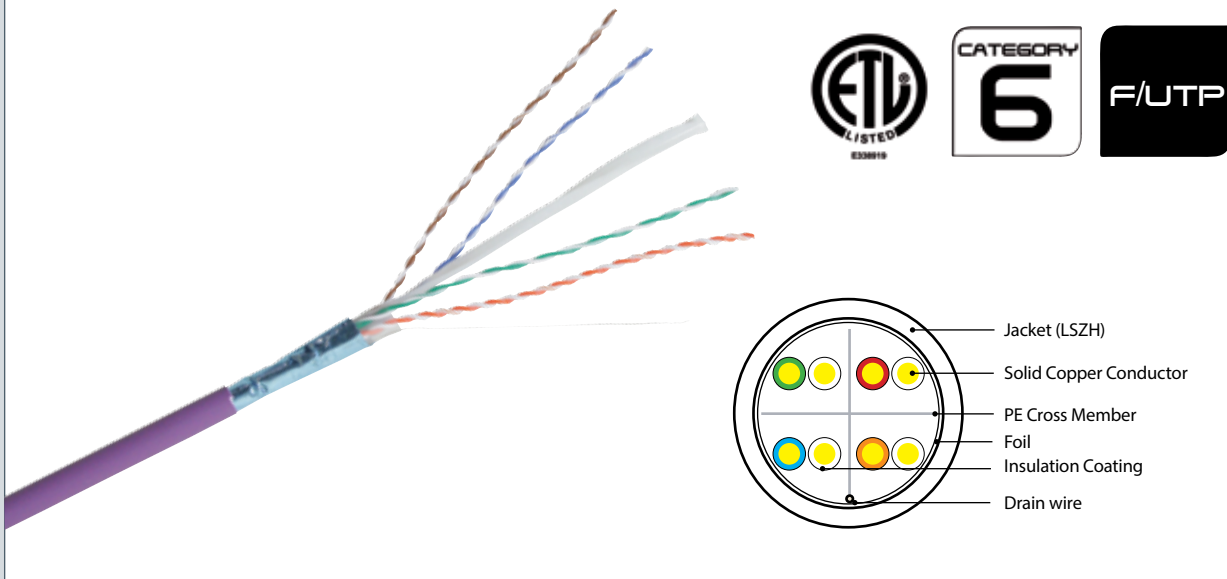
Transmission line performance at 20°C

FREQUENCY MHZ	ATTENUATION dB/100M	42.0NEXT dB38.3	ACR dB/100M	PSNEXT dB	ELFEXT dB/100M	PSELFEXT dB/100M	RETURN LOSS
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10	6.0	59.3	53.3	57.3	48	45	25
16	7.6	56.0	48.4	54.0	44	41	25
20	9.3	45.8	36.5	42.8	42	39	25
62.5	17.0	38.4	21.4	35.4	32	29	21.5
100	22.0	35.3	13.3	32.3	28	25	20.1
125	22.5	43.0	20.5	41.0	26	23	19.5
155.5	25.4	42.0	16.6	40.0	24	21	18.8
250	33.0	38.3	5.3	32.3	20	17	17.3

Ordering Information

DESCRIPTION	PART NUMBER
Category 6 U/UTP PVC 305m Box	UTP6305PVC
Category 6 U/UTP PVC 500m Reel	UTP6500PVC

Category 6 F/UTP Low Smoke Zero Halogen Cable



OptronicsPlus category 6 F/UTP LSZH cable is designed to deliver a robust standards based performance ensuring optimum bandwidth for today's high speed network applications. The cable is designed to support horizontal networking applications over distances up to 100 metres.

Our category 6 F/UTP LSZH cable exceeds the minimum specified performance for category 6 F/UTP cables and support all class E applications as defined within ISO/IEC 11801 (2nd Edition): 2010 such as 1000BASE-T (Gigabit Ethernet), ATM-155, 100BASE-Tx, Token Ring 100Mbs-1, and 1G FCBASE-T.

Applicable Standards

The category 6 F/UTP LSZH cable is manufactured and tested directly in accordance with the major industry standards:

- > ISO/IEC 11801 2nd Edition
- > ANSI/TIA 568-C.2
- > EN 50173
- > IEC 61156-5
- > EN 50288-3-1

Fire Performance

Category 6 F/UTP LSZH cables exceed the requirements of:

- > IEC 60332-1-2
- > IEC 60754-2
- > IEC 61034

Other Relevant Information

- > REACH / SvHC Compliant regulation (EC) No. 1907/2006
- > Pair colour code:
 - Pair 1: Orange and White/Orange
 - Pair 2: Blue and White/Blue
 - Pair 3: Brown and White/Brown
 - Pair 4: Green and White/Green

Category 6 F/UTP Low Smoke Zero Halogen Cable

Technical Specifications

CONSTRUCTION	
Conductors	A single strand of 23AWG (0.574mm) solid copper
Insulation	Polyethylene
Cable	8 insulated wires formed into 4 pairs. The 4 pairs are subsequently cabled together around a polyethylene cross-filler to form a cohesive unit.
Screen	An aluminised polyester tape screen applied with a 15% minimum overlap (The aluminium side is in continuous contact with the tinned copper drain wire.)
Sheath	A uniform layer of violet coloured low smoke zero halogen (LSZH) compound (RAL 4005)

ELECTRICAL PROPERTIES AT 20°C	
Characteristic Impedance (1-100MHz)	100 ± 15Ω
DC Loop Resistance	≤ 19.0Ω/100m
Resistance Unbalance	≤ 2%
Capacitance Unbalance to Earth	≤ 1600 pF/km
Delay Skew	≤ 40ns/100m @ 100MHz
Nominal Velocity of Propagation	67%
Propagation Delay (Nominal)	≤ 534ns/100m
Test Voltage (d.c. for 1 minute) Conductor /Conductor	1000V
Insulation Resistance (500V d.c)	≥ 500MΩ.km
Transfer Impedance	≥ 40dB

Mechanical Characteristics

TEMPERATURE RANGE	
Operation	-20°C to + 60°C
Installation	0°C to +50°C
Storage	-20°C to + 70°C

MINIMUM BEND RADII	
Installation	8 x cable diameter
Installed	4 x cable diameter

MAXIMUM TENSILE FORCE	
During Installation	100N

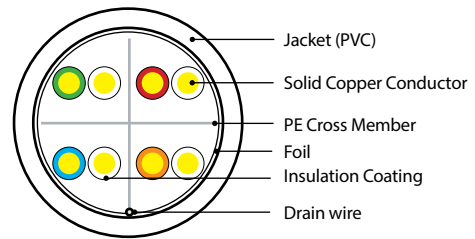
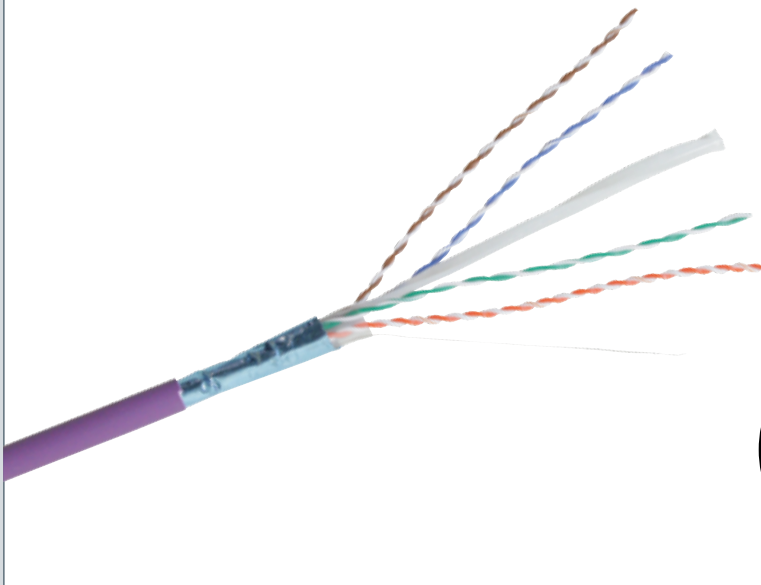
Transmission line performance at 20°C

FREQUENCY MHZ	ATTENUATION dB/100M	42.0NEXT dB38.3	ACR dB/100M	PSNEXT dB	ELFEXT dB/100M	PSELFEXT dB/100M	RETURN LOSS
1	2.1	74.0	71.9	72.0	68	65	20
4	3.8	65.3	61.5	63.3	56	53	23
10	6.0	59.3	53.3	57.3	48	45	25
16	7.6	56.0	48.4	54.0	44	41	25
20	9.3	45.8	36.5	42.8	42	39	25
62.5	17.0	38.4	21.4	35.4	32	29	21.5
100	22.0	35.3	13.3	32.3	28	25	20.1
125	22.5	43.0	20.5	41.0	26	23	19.5
155.5	25.4	42.0	16.6	40.0	24	21	18.8
250	33.0	38.3	5.3	32.3	20	17	17.3

Ordering Information

DESCRIPTION	PART NUMBER
Category 6 F/UTP LSZH 305m Box	F/UTP6305LSZH
Category 6 F/UTP LSZH 500m Reel	F/UTP6500LSZH

Category 6 F/UTP PVC Cable



OptronicsPlus category 6 F/UTP PVC cables is designed to deliver a robust standards based performance ensuring optimum bandwidth for today's high speed network applications. The cable is designed to support horizontal networking applications over distances up to 100 metres.

Our category 6 F/UTP PVC cable exceeds the minimum specified performance for category 6 F/UTP cables and support all class E applications as defined within ISO/IEC 11801 (2nd Edition): 2010 such as 1000BASE-T (Gigabit Ethernet), ATM-155, 100BASE-Tx, Token Ring 100Mbs-1, and 1G FCBASE-T.

Applicable Standards

The category 6 F/UTP PVC cable is manufactured and tested directly in accordance with the major industry standards:

- > ISO/IEC 11801 2nd Edition
- > ANSI/TIA 568-C.2
- > EN 50173
- > IEC 61156-5
- > EN 50288-3-1

Fire Performance

Category 6 F/UTP PVC cables exceed the requirements of:

- > IEC 60332-1-2

Other Relevant Information

- > REACH / SvHC Compliant regulation (EC) No. 1907/2006
- > Pair colour code:
 - Pair 1: Orange and White/Orange
 - Pair 2: Blue and White/Blue
 - Pair 3: Brown and White/Brown
 - Pair 4: Green and White/Green

Category 6 F/UTP PVC Cable

Technical Specifications

CONSTRUCTION	
Conductors	A single strand of 23AWG (0.574mm) solid copper
Insulation	Polyethylene
Cable	8 insulated wires formed into 4 pairs. The 4 pairs are subsequently cabled together around a polyethylene cross-filler to form a cohesive unit.
Screen	An aluminised polyester tape screen applied with a 15% minimum overlap (The aluminium side is in continuous contact with the tinned copper drain wire.)
Sheath	A uniform layer of grey coloured polyvinyl chloride (PVC) compound (RAL 7035)

ELECTRICAL PROPERTIES AT 200C	
Characteristic Impedance (1-100MHz)	100 ± 15Ω
DC Loop Resistance	≤ 19.0Ω/100m
Resistance Unbalance	≤ 2%
Capacitance Unbalance to Earth	≤ 1600 pF/km
Delay Skew	≤ 40ns/100m @ 100MHz
Nominal Velocity of Propagation	67%
Propagation Delay (Nominal)	≤ 534ns/100m
Test Voltage (d.c. for 1 minute) Conductor /Conductor	1000V
Insulation Resistance (500V d.c)	≥ 500MΩ.km
Transfer Impedance	≥ 55dB

Mechanical Characteristics

TEMPERATURE RANGE	
Operation	-20°C to + 60°C
Installation	0°C to +50°C
Storage	-20°C to + 70°C

MINIMUM BEND RADII	
Installation	8 x cable diameter
Installed	4 x cable diameter

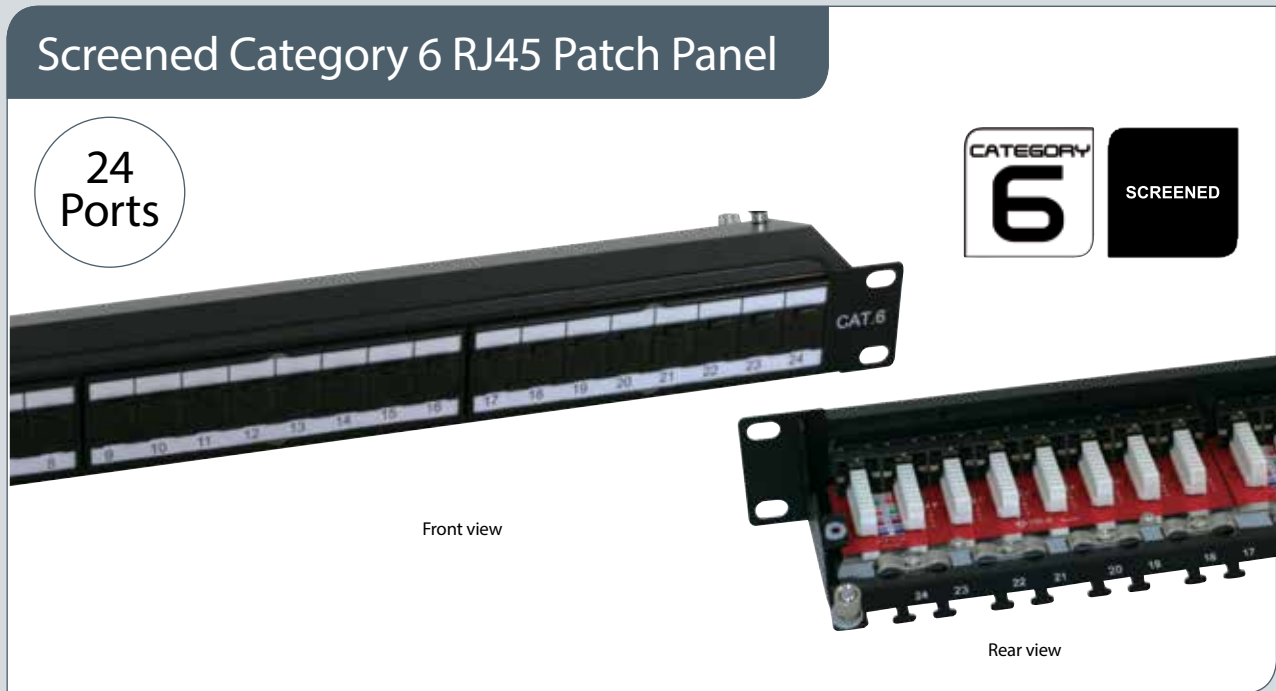
MAXIMUM TENSILE FORCE	
During Installation	100N

Transmission line performance at 20°C

FREQUENCY MHZ	ATTENUATION dB/100M	42.0NEXT dB38.3	ACR dB/100M	PSNEXT dB	ELFEXT dB/100M	PSELFEXT dB/100M	RETURN LOSS
1	2.1	74.0	71.9	72.0	68	65	20
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10	6.0	59.3	53.3	57.3	48	45	25
16	7.6	56.0	48.4	54.0	44	41	25
20	9.3	45.8	36.5	42.8	42	39	25
62.5	17.0	38.4	21.4	35.4	32	29	21.5
100	22.0	35.3	13.3	32.3	28	25	20.1
125	22.5	43.0	20.5	41.0	26	23	19.5
155.5	25.4	42.0	16.6	40.0	24	21	18.8
250	33.0	38.3	5.3	32.3	20	17	17.3

Ordering Information

DESCRIPTION	PART NUMBER
Category 6 F/UTP PVC 305m Box	F/UTP6305PVC
Category 6 F/UTP PVC 500m Reel	F/UTP6500PVC



OptronicsPlus Screened category 6 patch panels exceed the transmission line performance requirements of IEC and TIA for class E/category 6 systems. The panels are designed for mechanical and electrical reliability whilst delivering a consistent high level of systems performance.

Our category 6 patch panel complies with the requirements of ISO/IEC 11801 (2nd Edition); 2010 and support all applications designed for class E/category 6 applications including ATM 1200, 1000BASE-T (Gigabit Ethernet) and 1G FCBASE-T.

Features

- > 19" rack mountable
- > 24 ports in 1U space
- > 8 - port RJ45 modules
- > Universal wiring blocks for easy termination
- > Right-angled wiring block orientation for easier installation
- > Colour coded wiring blocks for easy cable lacing
- > Integral rear cable management
- > Durability:
 - Socket Contacts: 750 plug insertion cycles minimum
 - Wiring block: 25 termination cycles minimum
- > Earthing kit and cage nuts included as standard
- > Part of the 25 year Optronics systems warranty programme

Applications

- > Class E/category 6 standards compliant
- > Terminates 22AWG to 26AWG cables

Conformance

- > Electrically compliant beyond 250MHz
- > Supports TIA 568A & B wiring configurations
- > REACH / SvHC compliant regulation (EC) No. 1907/2006

Ordering Information

DESCRIPTION	PART NUMBER
Screened category 6 patch panel - 24 port Black 1U	601-001

Screened Category 6 "High Density" RJ45 Patch Panel

48
Ports

CATEGORY
6

SCREENED



Front view



Rear view

OptronicPlus Screened category 6 "High Density" patch panels exceed the transmission line performance requirements of IEC and TIA for class E/category 6 systems. These panels are genuine cabinet space saving products, which are designed for mechanical and electrical reliability whilst delivering a consistent high level of systems performance and halving

the cabinet space required in high density installations. Each category 6 "High Density patch panel" complies with the requirements of ISO/IEC 11801 (2nd Edition): 2010 and support all applications designed for class E/category 6 applications including ATM 1200, 1000BASE-T (Gigabit Ethernet) and 1G FCBASE-T.

Features

- > 19" rack mountable
- > 48 ports in 1U space
- > 8 - port RJ45 modules
- > Universal wiring blocks for easy termination
- > Right-angled wiring block orientation for easier installation
- > Colour coded wiring blocks for easy cable lacing
- > Integral rear cable management
- > Durability:
 - Socket Contacts: 750 plug insertion cycles minimum
 - Wiring block: 25 termination cycles minimum
- > Earthing kit and cage nuts included as standard
- > Part of the 25 year Optronic systems warranty programme

Applications

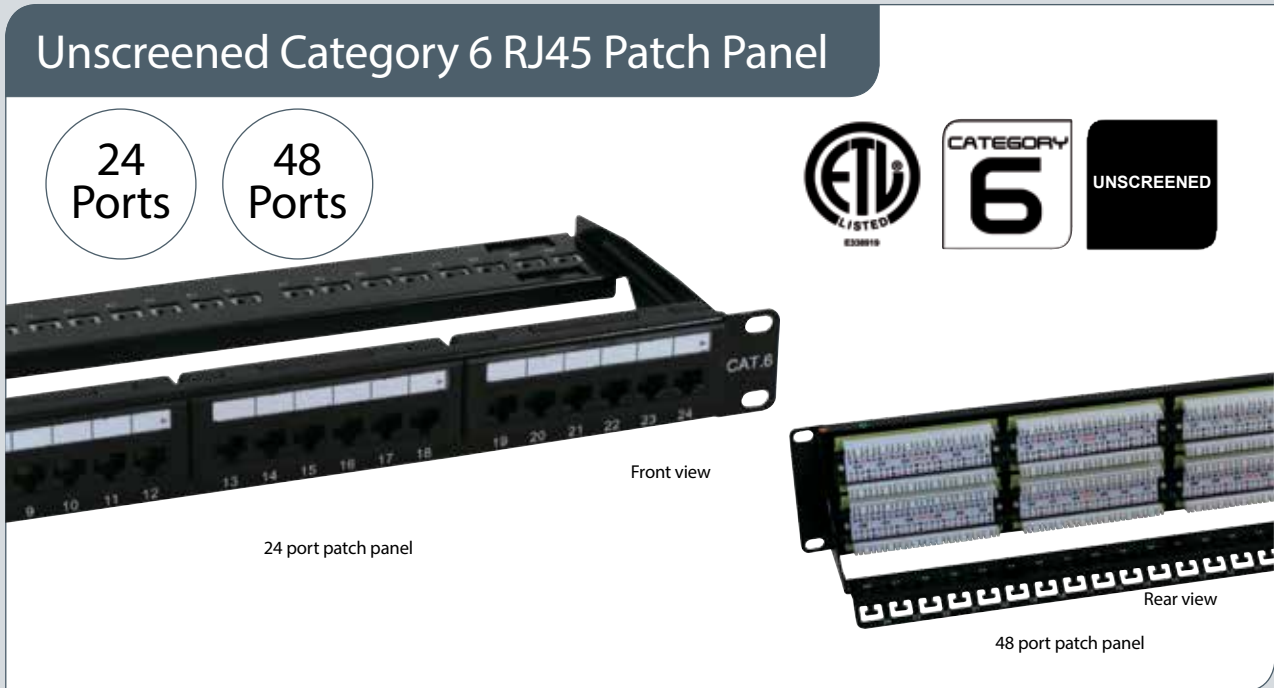
- > Class E/category 6 standards compliant
- > Terminates 22AWG to 26AWG cables

Conformance

- > Electrically compliant beyond 250MHz
- > Supports TIA 568A & B wiring configurations
- > REACH / SvHC compliant regulation (EC) No. 1907/2006

Ordering Information

DESCRIPTION	PART NUMBER
Screened category 6 "HD" patch panel - 48 port Black 1U	601-002



OptronicPlus Unscreened category 6 patch panels range exceed the transmission line performance requirements of IEC and TIA for class E/category 6 systems. The products are designed for mechanical and electrical reliability, using quality materials and processes, to deliver a panel solution which delivers a consistent

high level of systems performance. Each category 6 patch panel complies with the requirements of ISO/IEC 11801 (2nd Edition): 2010 and support all applications designed for class E/category 6 applications including ATM 1200, 1000BASE-T (Gigabit Ethernet) and 1G FCBASE-T.

Features

- > 19" rack mountable
- > 6 - port RJ45 modules
- > Universal wiring blocks for easy termination
- > Colour coded wiring blocks for easy cable lacing
- > Integral label feature
- > Individual port identification
- > Rear cable management bar
- > Durability:
 - Socket Contacts: 750 plug insertion cycles minimum
 - Wiring block: 25 termination cycles minimum
- > Earthing kit and cage nuts included as standard
- > Part of the 25 year Optronic systems warranty programme

Applications

- > Class E/category 6 standards compliant
- > Terminates 22AWG to 26AWG cables

Conformance

- > Electrically compliant beyond 250MHz
- > Supports TIA 568 A & B wiring configurations
- > REACH / SvHC compliant regulation (EC) No. 1907/2006

Ordering Information

DESCRIPTION	PART NUMBER
Unscreened category 6 RJ45 patch panel, 24 port Black 1U	600-001
Unscreened category 6 RJ45 patch panel, 48 port Black 2U	600-002

Screened Category 6 RJ45 Tool Free Keystone Jacks



OptronicsPlus Screened category 6 Tool Free RJ45 keystone jacks exceed the transmission line performance requirements of IEC and TIA for class E/category 6 systems. The jacks have been designed for mechanical and electrical reliability, using quality materials, to deliver a jack solution that minimises the time required by the installer to complete each termination. Each

category 6 Modular RJ45 keystone jack complies with IEC 60603-7-Pt 5 (screened) and support all applications designed for class E networks, as defined within ISO/IEC 11801 (2nd Edition): 2010 including ATM 1200, 1000BASE-T (Gigabit Ethernet) and 1G FCBASE-T.

Features

- > Screened and unscreened versions available
- > Repeatable tool-free terminations
- > Colour coded stuffer-cap for easy cable lacing
- > Keyed stuffer-cap for reliable termination
- > Low insertion force `clam action` assists tool-free termination (LSA & 110 punch-down tools can also be used to effect termination)
- > Integral cable strain relief
- > Durability:
 - Jack contacts: 750 plug insertion cycles minimum
 - Wiring block: 25 termination cycles minimum
- > Fits all keystone style face plates and floor boxes
- > Suitable for modular patch panel installation
- > Part of the 25 year Optronics systems warranty programme

Applications

- > Class E/category 6 standards compliant

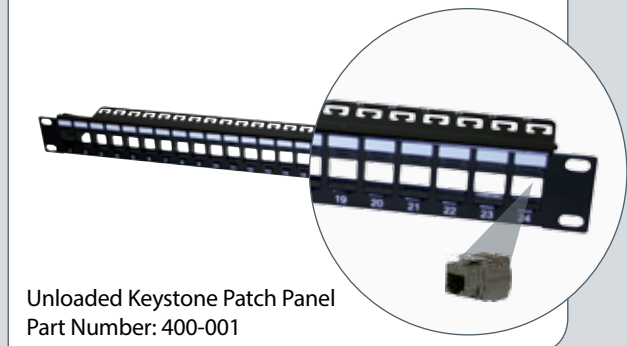
Conformance

- > Electrically compliant beyond 250MHz
- > Supports TIA 568 A & B wiring configurations
- > REACH / SvHC compliant regulation (EC) No. 1907/2006

Ordering Information

DESCRIPTION	PART NUMBER
Screened category 6 tool free keystone jack	601-101
Unloaded keystone patch panel	400-001

Unloaded Keystone Patch Panel for use with Screened category 6 RJ45 Tool Free Keystone Jacks



Tool Free Unscreened Category 6 RJ45 Keystone Jacks



Optronics category 6 Tool Free RJ45 keystone jacks exceed the transmission line performance requirements of IEC and TIA for class E/category 6 systems. The jacks have been designed for mechanical and electrical reliability, using quality materials, to deliver a jack solution that minimises the time required by the

installer to complete each termination. Each category 6 Tool Free RJ45 keystone jack complies with IEC 60603-7-Pt 4 (unscreened) and support all applications designed for class E networks, as defined within ISO/IEC 11801 (2nd Edition): 2010 including ATM 1200, 1000BASE-T (Gigabit Ethernet) and 1G FCBASE-T.

Features

- > Screened and unscreened versions available
- > Repeatable tool-free terminations
- > Colour coded stuffer-cap for easy cable lacing
- > Keyed stuffer-cap for reliable termination
- > Low insertion force `clam action` assists tool-free termination (LSA & 110 punch-down tools can also be used to effect termination)
- > Integral cable strain relief
- > Durability:
 - Jack contacts: 750 plug insertion cycles minimum
 - Wiring block: 25 termination cycles minimum
- > Fits all keystone style face plates and floor boxes
- > Suitable for modular patch panel installation
- > Part of the 25 year Optronics systems warranty programme

Applications

- > Class E/category 6 standards compliant
- > Independent third party verified performance
- > Terminates 22AWG to 26AWG cables

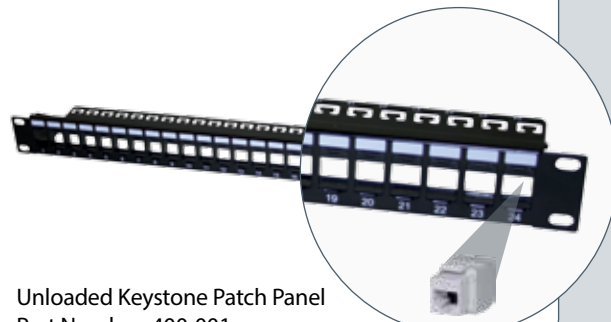
Conformance

- > Electrically compliant through 250MHz
- > Supports TIA 568 A & B wiring configurations
- > REACH / SvHC compliant regulation (EC) No. 1907/2006

Ordering Information

DESCRIPTION	PART NUMBER
Unscreened category 6 tool free keystone jack, black	600-101
Unscreened category 6 tool free keystone jack, white	600-102
Unloaded keystone patch panel	400-001

Unloaded Keystone Patch Panel for use with Tool Free Unscreened category 6 RJ45 Keystone Jacks



Unscreened Category 6 RJ45 Keystone Jacks



Top view

OptronicPlus category 6 RJ45 keystone jacks exceed the transmission line performance requirements of IEC and TIA for class E/category 6 systems. The jacks have been designed for mechanical and electrical reliability, using quality materials, to deliver a jack solution that optimises the termination process

through the use of a universal wiring block. Each category 6 RJ45 keystone jack complies with IEC 60603-7-Pt 4 (unscreened) and support all applications designed for class E networks as defined within ISO/IEC 11801 (2nd Edition): 2010 such as ATM 1200, 1000BASE-T (Gigabit Ethernet), and 1G FCBASE-T.

Features

- > Universal wiring block accommodates both 110 and LSA tools
- > Colour coded wiring blocks assist termination
- > Durability:
 - Jack contacts: 750 plug insertion cycles minimum
 - Wiring block: 25 termination cycles minimum
- > Fits all keystone style face plates and floor boxes
- > Suitable for modular patch panel installation
- > Part of the 25 year Optronic systems warranty programme

Applications

- > Class E/category 6 standards compliant

Conformance

- > Electrically compliant through 250MHz
- > Supports TIA 568 A & B wiring configurations
- > REACH / SvHC compliant regulation (EC) No. 1907/2006

Ordering Information

DESCRIPTION	PART NUMBER
Unscreened category 6 keystone jack - Black	600-103
Unscreened category 6 keystone jack - White	600-104
Unloaded keystone patch panel	400-001

Unloaded Keystone Patch Panel for use with Unscreened category 6 RJ45 Keystone Jacks



Unloaded Keystone Patch Panel
Part Number: 400-001

Unscreened Category 6 Low Profile Shuttered Modules



OptronicsPlus category 6 low profile shuttered RJ45 modules exceed the transmission line performance requirements of IEC and TIA for class E/category 6 systems. The products have been designed for mechanical and electrical reliability, using quality materials, to deliver a jack solution that is optimised for shallow back boxes.

Each category 6 low profile shuttered RJ45 module complies with IEC 60603-7-Pt 4 and support all applications designed for class E networks as defined within ISO/IEC 11801 (2nd Edition): 2010 including ATM 1200, 1000BASE-T (Gigabit Ethernet) and 1G FCBASE-T.

Features

- > Euro-Mod and LJ6C versions
- > Integral shuttered facia
- > Integral label window
- > Universal, colour coded wiring block for easy termination
- > Integral cable strain relief
- > Durability:
 - Jack contacts: 750 plug insertion cycles minimum
 - Wiring block: 25 termination cycles minimum
- > Part of the 25 year Optronics systems warranty programme

Applications

- > Class E/category 6 standards compliant

Conformance

- > Electrically compliant beyond 250MHz
- > Supports TIA 568 A & B wiring configurations
- > REACH / SvHC compliant regulation (EC) No. 1907/2006

Ordering Information

DESCRIPTION	PART NUMBER
Unscreened LJ6C category 6 Low Profile Shuttered Module 38,5mm x 25mm White	600-301
Unscreened category 6 Low Profile Shuttered Module 50mm x 25mm White	600-401



OptronicPlus category 6 Unscreened patch cords exceed the transmission line performance requirements of IEC and TIA for class E/category 6 systems. The patch cords are designed for mechanical and electrical reliability, using quality materials and processes, to provide a patch cord solution which delivers a consistent high level of systems performance whilst incorporating design features that allow a "one style fits all" patch cord application. The low profile moulded boot and snag

free latching allows the patch cords to be deployed within even the most densely populated network installations deploying the latest blade server technology. Each category 6 patch cord is manufactured and tested in accordance with IEC 61935-2 and comply with the requirements of ISO/IEC 11801 (2nd Edition): 2010 and support all applications designed for class E/category 6 applications such as ATM 1200, 1000BASE-T (Gigabit Ethernet) and 1G FCBASE-T.

Features

- > Electrically compliant beyond 250MHz
- > Low Smoke Zero Halogen sheathed cable / PVC sheathed cable
- > Low profile moulded strain relief boot for use with blade servers
- > Integral anti-snag latch as standard
- > 8 standard colours
- > 7 standard lengths (1m, 2m, 3m, 5m, 10m, 15m, & 20m)
- > Other lengths and colours available upon request*
- > Individually bagged with traceability information
- > Part of the 25 year OptronicPlus systems warranty programme

* Subject to MOQ

Applications

- > Class E/category 6 standards compliant

Conformance

- > REACH / SvHC compliant regulation (EC) No. 1907/2006

Technical Specifications

CONSTRUCTION		VALUE
Conductors	AWG	26
	Size (mm)	7/0.20 +/- 0.008
	Material	Bare Copper
Insulators	Diameter (mm)	0.98 +/- 0.05
	Material	Polyolefin
	External O.D.	6.0 +/- 0.20
Jacket	Thickness (mm)	0.5
	Material	PVC/LSZH

U/UTP Category 6 Patch Cords

PVC

	PART NUMBER	METRE
GREY	610-101	1
	610-102	2
	610-103	3
	610-105	5
	610-110	10
	610-115	15
	610-120	20
	610-201	1
	610-202	2
	610-203	3
RED	610-205	5
	610-210	10
	610-215	15
	610-220	20
	610-301	1
BLUE	610-302	2
	610-303	3
	610-305	5
	610-310	10
	610-315	15
	610-320	20

	PART NUMBER	METRE
YELLOW	610-401	1
	610-402	2
	610-403	3
	610-405	5
	610-410	10
	610-415	15
	610-520	20
	610-501	1
	610-502	2
	610-503	3
GREEN	610-505	5
	610-610	10
	610-515	15
	610-520	20
	610-601	1
WHITE*	610-602	2
	610-603	3
	610-605	5
	610-610	10
	610-615	15
	610-620	20

	PART NUMBER	METRE
BLACK*	610-701	1
	610-702	2
	610-703	3
	610-705	5
	610-710	10
	610-715	15
	610-720	20
	610-701	1
	610-702	2
	610-703	3
ORANGE*	610-705	5
	610-710	10
	610-715	15
	610-720	20

*White, Orange and Black may be subject to minimum order quantities

LSZH

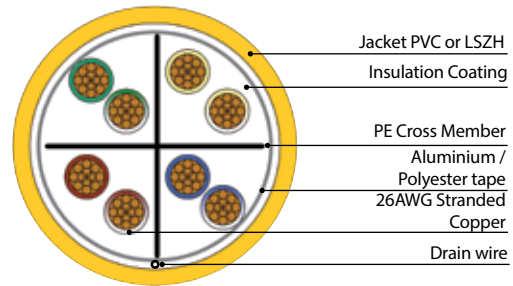
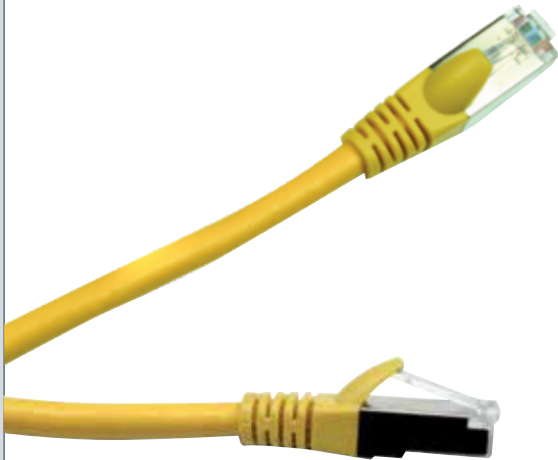
	PART NUMBER	METRE
GREY	620-101	1
	620-102	2
	620-103	3
	620-105	5
	620-110	10
	620-115	15
	620-120	20
	620-201	1
	620-202	2
	620-203	3
RED	620-205	5
	620-210	10
	620-215	15
	620-220	20
	620-301	1
BLUE	620-302	2
	620-303	3
	620-305	5
	620-310	10
	620-315	15
	620-320	20

	PART NUMBER	METRE
YELLOW	620-401	1
	620-402	2
	620-403	3
	620-405	5
	620-410	10
	620-415	15
	620-420	20
	620-501	1
	620-502	2
	620-503	3
GREEN	620-505	5
	620-510	10
	620-515	15
	620-620	20
	620-601	1
WHITE*	620-602	2
	620-603	3
	620-605	5
	620-610	10
	620-615	15
	620-620	20

	PART NUMBER	METRE
BLACK*	620-701	1
	620-702	2
	620-703	3
	620-705	5
	620-710	10
	620-715	15
	620-720	20
	620-801	1
	620-802	2
	620-803	3
ORANGE*	620-805	5
	620-810	10
	620-815	15
	620-820	20

*White, Orange and Black may be subject to minimum order quantities

F/UTP Category 6 Patch Cords



OptronicsPlus category 6 Screened patch cord exceeds the transmission line performance requirements of IEC and TIA for class E/category 6 systems. The products are designed for mechanical and electrical reliability using quality materials and processes to deliver a patch cord solution which provides a consistent high level of systems performance whilst incorporating design features that allow a “one style fits all” cord application. The low profile moulded boot and snag free

latching allows the patch cords to be deployed within even the most densely populated network installations utilising the latest blade server technology. Each category 6 patch cord is manufactured and tested in accordance with IEC 61935-2 and comply with the requirements of ISO/IEC 11801 (2nd Edition): 2010 and TIA 568C and support all applications designed for class E/category 6 applications such as ATM 1200, 1000BASE-T (Gigabit Ethernet) and 1G FCBASE-T.

Features

- > Electrically compliant beyond 250MHz
 - > Low Smoke Zero Halogen / PVC sheathed cable
 - > Low profile moulded strain relief boot for use with blade servers
 - > Aluminised polyester tape screen and drain wire
 - > Screened plug
 - > Integral anti-snag latch as standard
 - > 8 standard colours
 - > 7 standard lengths (1m, 2m, 3m, 5m, 10m, 15m, & 20m)
 - > Other lengths and colours available upon request*
 - > Individually bagged with traceability information
 - > Part of the 25 year Optronics systems warranty programme
- * Subject to MOQ

Applications

- > Class E/category 6 standards compliant

Conformance

- > REACH / SvHC compliant regulation (EC) No. 1907/2006

Technical Specifications

CONSTRUCTION		VALUE
Conductors	AWG	26
	Size (mm)	0.915 +/- 0.008
	Material	Bare Copper
Insulators	Diameter (mm)	0.97 +/- 0.05
	Material	Polyolefin
Jacket	External O.D.	6.0 +/- 0.20
	Thickness (mm)	0.5
	Material	PVC/LSZH
Tape	Material	Aluminium/Polyester
	Coverage (%)	125

F/UTP Category 6 Patch Cords

PVC

	PART NUMBER	METRE
GREY	630-101	1
	630-102	2
	630-103	3
	630-105	5
	630-110	10
	630-115	15
	630-120	20
RED	630-201	1
	630-202	2
	630-203	3
	630-205	5
	630-210	10
	630-215	15
	630-220	20
BLUE	630-301	1
	630-302	2
	630-303	3
	630-305	5
	630-310	10
	630-315	15
	630-320	20

	PART NUMBER	METRE
YELLOW	630-401	1
	630-402	2
	630-403	3
	630-405	5
	630-410	10
	630-415	15
	630-520	20
GREEN	630-501	1
	630-502	2
	630-503	3
	630-505	5
	630-630	10
	630-515	15
	630-520	20
WHITE*	630-601	1
	630-602	2
	630-603	3
	630-605	5
	630-630	10
	630-615	15
	630-620	20

	PART NUMBER	METRE
BLACK*	630-701	1
	630-702	2
	630-703	3
	630-705	5
	630-710	10
	630-715	15
	630-720	20
ORANGE*	630-701	1
	630-702	2
	630-703	3
	630-705	5
	630-710	10
	630-715	15
	630-720	20

*White, Orange and Black may be subject to minimum order quantities

LSZH

	PART NUMBER	METRE
GREY	640-101	1
	640-102	2
	640-103	3
	640-105	5
	640-110	10
	640-115	15
	640-120	20
RED	640-201	1
	640-202	2
	640-203	3
	640-205	5
	640-210	10
	640-215	15
	640-220	20
BLUE	640-301	1
	640-302	2
	640-303	3
	640-305	5
	640-310	10
	640-315	15
	640-320	20

	PART NUMBER	METRE
YELLOW	640-401	1
	640-402	2
	640-403	3
	640-405	5
	640-410	10
	640-415	15
	640-420	20
GREEN	640-501	1
	640-502	2
	640-503	3
	640-505	5
	640-510	10
	640-515	15
	640-640	20
WHITE*	640-601	1
	640-602	2
	640-603	3
	640-605	5
	640-610	10
	640-615	15
	640-640	20

	PART NUMBER	METRE
BLACK*	640-701	1
	640-702	2
	640-703	3
	640-705	5
	640-710	10
	640-715	15
	640-720	20
ORANGE*	640-801	1
	640-802	2
	640-803	3
	640-805	5
	640-810	10
	640-815	15
	640-820	20

*White, Orange and Black may be subject to minimum order quantities

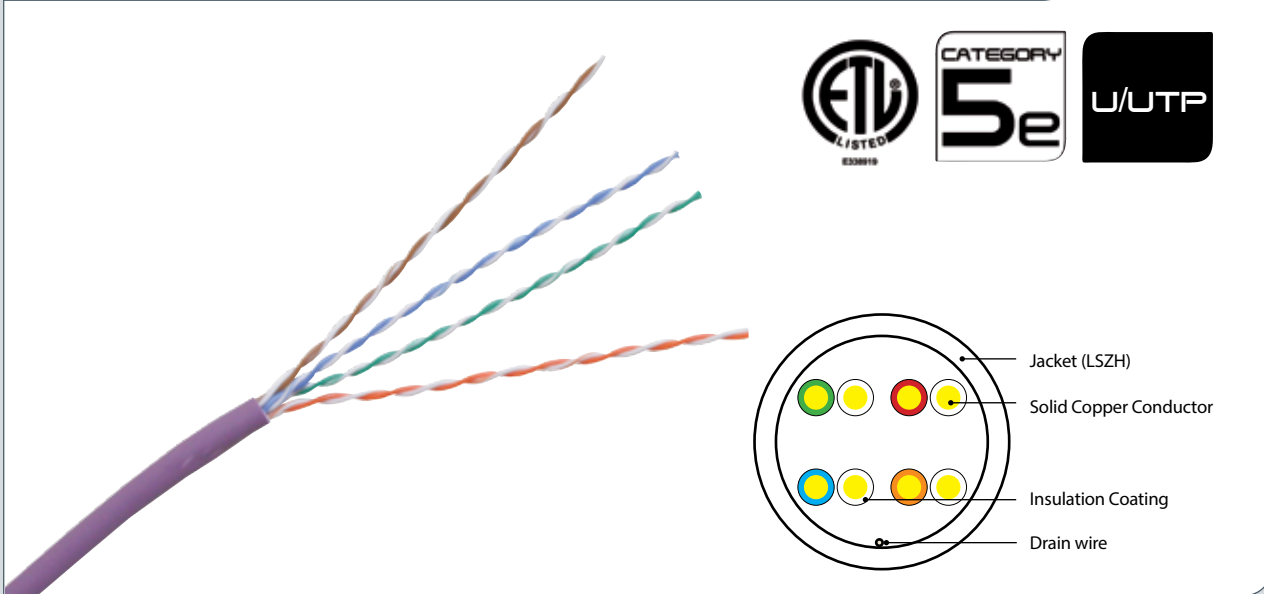
OptronicPlus
Copper Cabling System

Category 5e

Cable	94
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Category 5e U/UTP Low Smoke Zero Halogen Cable



OptronicsPlus category 5e U/UTP LSZH cable is designed to deliver a robust standards based performance ensuring optimum bandwidth for today's high speed network applications. The cable is designed to support horizontal networking applications over distances up to 100 metres. Our category 5e U/UTP LSZH

cable exceeds the minimum specified performance for category 5e U/UTP cables and supports all class D applications as defined within ISO/IEC 11801 (2nd Edition): 2010 including 1000BASE-T (Gigabit Ethernet), ATM-155, 100BASE-Tx, Token Ring 100Mbs-1, and 1G FCBASE-T.

Applicable Standards

The category 5e U/UTP LSZH cable is manufactured and tested directly in accordance with the major industry standards:

- > ISO/IEC 11801 2nd Edition
- > ANSI/TIA 568-C.2
- > EN 50173
- > IEC 61156-5
- > EN 50288-3-1

Fire Performance

Category 5e U/UTP LSZH cables exceed the requirements of:

- > IEC 60332-1-2
- > IEC 60754-2
- > IEC 61034

Other Relevant Information

- > REACH / SvHC compliant regulation (EC) No. 1907/2006
Pair colour code:
Pair 1: Orange and White/Orange
Pair 2: Blue and White/Blue
Pair 3: Brown and White/Brown
Pair 4: Green and White/Green

Category 5e U/UTP Low Smoke Zero Halogen Cable

Technical Specifications

CONSTRUCTION	
Conductors	A single strand of 23AWG (0.51mm) solid copper
Insulation	Polyethylene
Cable	8 insulated wires formed into 4 pairs. The 4 pairs are subsequently cabled together to form a cohesive unit.
Sheath	A uniform layer of violet coloured low smoke zero halogen (LSZH) compound (RAL 4005)
Diameter	5.0mm

ELECTRICAL PROPERTIES AT 200C	
Characteristic Impedance (1-100MHz)	100 ± 15Ω
DC Loop Resistance	≤ 19.0Ω/100m
Resistance Unbalance	≤ 2%
Capacitance Unbalance to Earth	≤ 1600 pF/km
Nominal Velocity of Propagation	67%
Propagation Delay (Nominal)	≤ 534ns/100m
Test Voltage (d.c. for 1 minute) Conductor /Conductor	1000V
Insulation Resistance (500V d.c)	≥ 500MΩ.km

Mechanical Characteristics

TEMPERATURE RANGE	
Operation	-20°C to + 60°C
Installation	0°C to +50°C
Storage	-20°C to + 70°C

MINIMUM BEND RADII	
Installation	8 x cable diameter
Installed	4 x cable diameter

MAXIMUM TENSILE FORCE	
During Installation	100N

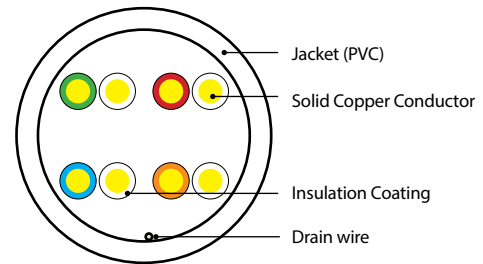
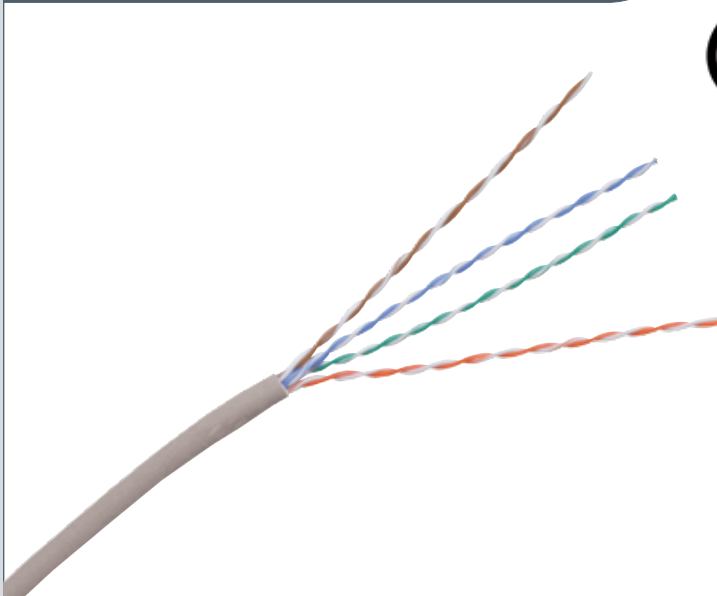
Transmission line performance at 20°C

FREQUENCY MHZ	ATTENUATION dB/100M	42.0NEXT dB38.3	ACR dB/100M	PSNEXT dB	ELFEXT dB/100M	PSELFEXT dB/100M	RETURN LOSS
1	2.1	65.3	63.2	62.3	63.8	60.8	20.0
4	4.0	56.3	52.3	53.3	51.8	48.8	23.1
10	6.3	50.3	44.0	47.3	43.8	40.8	24.5
16	8.0	47.3	39.3	44.2	39.7	36.7	25.0
20	9.0	45.8	46.8	42.8	37.8	34.8	25.0
31.25	11.4	42.9	31.5	39.9	33.9	30.9	23.6
62.5	16.5	38.4	21.9	35.4	27.9	24.9	21.5
100	21.3	35.3	14.0	32.3	23.8	20.8	20.1

Ordering Information

DESCRIPTION	PART NUMBER
Category 5e U/UTP LSZH 305m Box	UTP5E305LSZH
Category 6 F/UTP LSZH 500m Reel	UTP5E500LSZH

Category 5e U/UTP PVC Cable



OptronicsPlus category 5e U/UTP PVC cable is designed to deliver a robust standards based performance ensuring optimum bandwidth for today's high speed network applications. The cable is designed to support horizontal networking applications over distances up to 100 metres.

Our category 5e U/UTP PVC cable exceeds the minimum specified performance for category 5e U/UTP cables and support all class D applications as defined within ISO/IEC 11801 (2nd Edition): 2010 such as 1000BASE-T (Gigabit Ethernet), ATM-155, 100BASE-Tx, Token Ring 100Mbs-1, and 1G FCBASE-T.

Applicable Standards

The category 5e U/UTP PVC cable is manufactured and tested directly in accordance with the major industry standards:

- > ISO/IEC 11801 2nd Edition
- > ANSI/TIA 568-C.2
- > EN 50173
- > IEC 61156-5
- > EN 50288-3-1

Fire Performance

Category 5e U/UTP PVC cables exceed the requirements of:

- > IEC 60332-1-2

Other Relevant Information

- > REACH / SvHC compliant regulation (EC) No. 1907/2006
- > Pair colour code:
 - Pair 1: Orange and White/Orange
 - Pair 2: Blue and White/Blue
 - Pair 3: Brown and White/Brown
 - Pair 4: Green and White/Green

Category 5e U/UTP PVC Cable

Technical Specifications

CONSTRUCTION	
Conductors	A single strand of 23AWG (0.51mm) solid copper
Insulation	Polyethylene
Cable	8 insulated wires formed into 4 pairs. The 4 pairs are subsequently cabled together to form a cohesive unit.
Sheath	A uniform layer of grey coloured PVC compound (RAL 7035)
Diameter	5.0mm

ELECTRICAL PROPERTIES AT 20°C	
Characteristic Impedance (1-100MHz)	100 ± 15Ω
DC Loop Resistance	≤ 19.0Ω/100m
Resistance Unbalance	≤ 2%
Capacitance Unbalance to Earth	≤ 1600 pF/km
Nominal Velocity of Propagation	67%
Propagation Delay (Nominal)	≤ 534ns/100m
Test Voltage (d.c. for 1 minute) Conductor /Conductor	1000V
Insulation Resistance (500V d.c)	≥ 500MΩ.km
Transfer Impedance	≥ 40dB

Mechanical Characteristics

TEMPERATURE RANGE	
Operation	-20°C to + 60°C
Installation	0°C to +50°C
Storage	-20°C to + 70°C

MINIMUM BEND RADII	
Installation	8 x cable diameter
Installed	4 x cable diameter

MAXIMUM TENSILE FORCE	
During Installation	100N

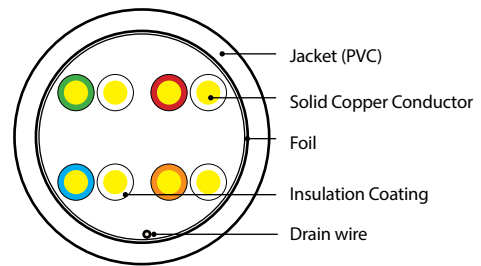
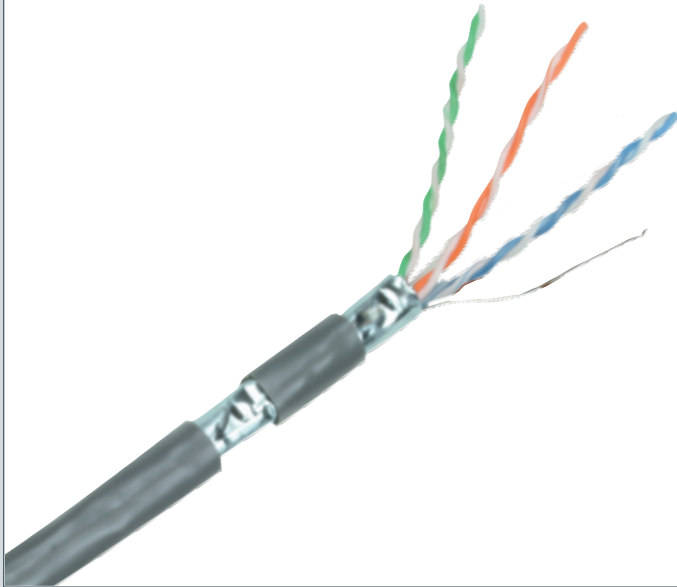
Transmission line performance at 20°C

FREQUENCY MHZ	ATTENUATION dB/100M	42.0NEXT dB 38.3	ACR dB/100M	PSNEXT dB	ELFEXT dB/100M	PSELFEXT dB/100M	RETURN LOSS
1	2.1	65.3	63.2	62.3	63.8	60.8	20.0
4	4.0	56.3	52.3	53.3	51.8	48.8	23.1
10	6.3	50.3	44.0	47.3	43.8	40.8	24.5
16	8.0	47.3	39.3	44.2	39.7	36.7	25.0
20	9.0	45.8	46.8	42.8	37.8	34.8	25.0
31.25	11.4	42.9	31.5	39.9	33.9	30.9	23.6
62.5	16.5	38.4	21.9	35.4	27.9	24.9	21.5
100	21.3	35.3	14.0	32.3	23.8	20.8	20.1

Ordering Information

DESCRIPTION	PART NUMBER
Category 5e U/UTP PVC 305m Box	UTP5E305PVC
Category 5e U/UTP PVC 500m Reel	UTP5E500PVC

Category 5e F/UTP PVC Cable



OptronicsPlus category 5e F/UTP PVC cables is designed to deliver a robust standards based performance ensuring optimum bandwidth for today's high speed network applications. The cable is designed to support horizontal networking applications over distances up to 100 metres.

Our category 5e F/UTP PVC cable exceeds the minimum specified performance for category 5e F/UTP cables and support all class D applications as defined within ISO/IEC 11801 (2nd Edition): 2010 such as 1000BASE-T (Gigabit Ethernet), ATM-155, 100BASE-Tx, Token Ring 100Mbps-1, and 1G FCBASE-T.

Applicable Standards

The category 5e F/UTP PVC cable is manufactured and tested directly in accordance with the major industry standards:

- > ISO/IEC 11801 2nd Edition
- > ANSI/TIA 568-C.2
- > EN 50173
- > IEC 61156-5
- > EN 50288-3-1

Fire Performance

Category 5e F/UTP PVC cables exceed the requirements of:

- > IEC 60332-1-2

Other Relevant Information

- > REACH / SvHC compliant regulation (EC) No. 1907/2006
- > Pair colour code:
 - Pair 1: Orange and White/Orange
 - Pair 2: Blue and White/Blue
 - Pair 3: Brown and White/Brown
 - Pair 4: Green and White/Green

Category 5e F/UTP PVC Cable

Technical Specifications

CONSTRUCTION	
Conductors	A single strand of 24AWG (0.51mm) solid copper
Insulation	Polyethylene
Cable	8 insulated wires formed into 4 pairs. The 4 pairs are subsequently cabled together to form a cohesive unit.
Screen	An aluminised polyester tape screen applied with a 15% minimum overlap (The aluminium side is in continuous contact with the tinned copper drain wire)
Sheath	A uniform layer of grey coloured PVC compound (RAL 7035)
Diameter	5.0mm

ELECTRICAL PROPERTIES AT 20°C	
Characteristic Impedance (1-100MHz)	100 ± 15Ω
DC Loop Resistance	≤ 19.0Ω/100m
Resistance Unbalance	≤ 2%
Capacitance Unbalance to Earth	≤ 1600 pF/km
Nominal Velocity of Propagation	67%
Propagation Delay (Nominal)	≤ 534ns/100m
Test Voltage (d.c. for 1 minute) Conductor /Conductor	1000V
Insulation Resistance (500V d.c)	≥ 500MΩ.km

Mechanical Characteristics

TEMPERATURE RANGE	
Operation	-20°C to + 60°C
Installation	0°C to +50°C
Storage	-20°C to + 70°C

MINIMUM BEND RADII	
Installation	8 x cable diameter
Installed	4 x cable diameter

MAXIMUM TENSILE FORCE	
During Installation	100N

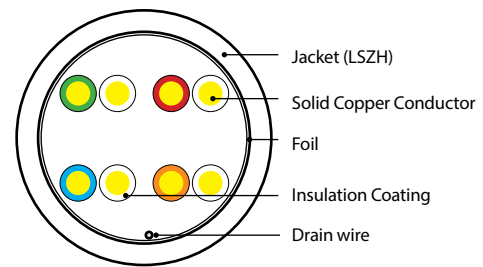
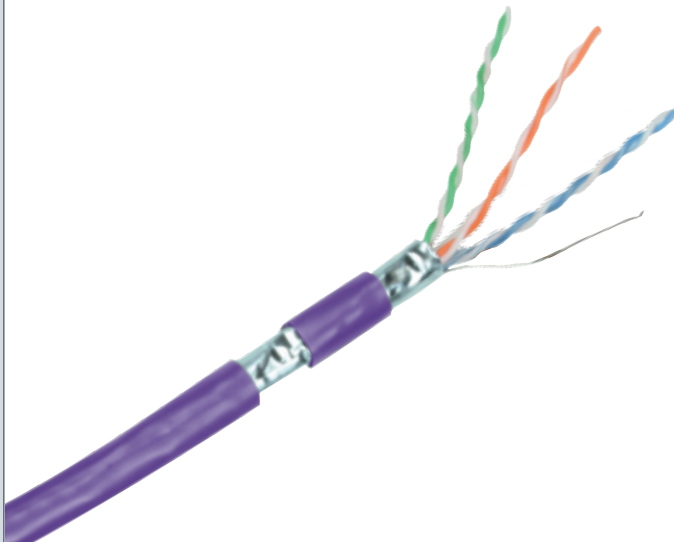
Transmission line performance at 20°C

FREQUENCY MHZ	ATTENUATION dB/100M	42.0NEXT dB38.3	ACR dB/100M	PSNEXT dB	ELFEXT dB/100M	PSELFEXT dB/100M	RETURN LOSS
1	2.1	65.3	63.2	62.3	63.8	60.8	20.0
4	4.0	56.3	52.3	53.3	51.8	48.8	23.1
10	6.3	50.3	44.0	47.3	43.8	40.8	24.5
16	8.0	47.3	39.3	44.2	39.7	36.7	25.0
20	9.0	45.8	46.8	42.8	37.8	34.8	25.0
31.25	11.4	42.9	31.5	39.9	33.9	30.9	23.6
62.5	16.5	38.4	21.9	35.4	27.9	24.9	21.5
100	21.3	35.3	14.0	32.3	23.8	20.8	20.1

Ordering Information

DESCRIPTION	PART NUMBER
Category 5e F/UTP PVC 305m Box	F/UTP5E305PVC
Category 5e F/UTP PVC 500m Reel	F/UTP5E500PVC

Category 5e F/UTP Low Smoke Zero Halogen Cable



OptronicsPlus category 5e F/UTP LSZH cables is designed to deliver a robust standards based performance ensuring optimum bandwidth for today's high speed network applications. The cable is designed to support horizontal networking applications over distances up to 100 metres.

Our category 5e F/UTP LSZH cable exceeds the minimum specified performance for category 5e F/UTP cables and support all class D applications as defined within ISO/IEC 11801 (2nd Edition): 2010 such as 1000BASE-T (Gigabit Ethernet), ATM-155, 100BASE-Tx, Token Ring 100Mbs-1, and 1G FCBASE-T.

Applicable Standards

The category 5e F/UTP LSZH cable is manufactured and tested directly in accordance with the major industry standards:

- > ISO/IEC 11801 2nd Edition
- > ANSI/TIA 568-C.2
- > EN 50173
- > IEC 61156-5
- > EN 50288-3-1

Fire Performance

Category 5e F/UTP LSZH cables exceed the requirements of:

- > IEC 60332-1-2
- > IEC 60754-2
- > IEC 61034

Other Relevant Information

- > REACH / SvHC compliant regulation (EC) No. 1907/2006
- > Pair colour code:
 - Pair 1: Orange and White/Orange
 - Pair 2: Blue and White/Blue
 - Pair 3: Brown and White/Brown
 - Pair 4: Green and White/Green

Category 5e F/UTP Low Smoke Zero Halogen Cable

Technical Specifications

CONSTRUCTION	
Conductors	A single strand of 24AWG (0.51mm) solid copper
Insulation	Polyethylene
Cable	8 insulated wires formed into 4 pairs. The 4 pairs are subsequently cabled together to form a cohesive unit.
Screen	An aluminised polyester tape screen applied with a 15% minimum overlap (The aluminium side is in continuous contact with the tinned copper drain wire)
Sheath	A uniform layer of violet coloured low smoke zero halogen (LSZH) compound (RAL 4005)
Diameter	5.0mm

ELECTRICAL PROPERTIES AT 200C	
Characteristic Impedance (1-100MHz)	100 ± 15Ω
DC Loop Resistance	≤ 19.0Ω/100m
Resistance Unbalance	≤ 2%
Capacitance Unbalance to Earth	≤ 1600 pF/km
Nominal Velocity of Propagation	67%
Propagation Delay (Nominal)	≤ 534ns/100m
Test Voltage (d.c. for 1 minute) Conductor /Conductor	1000V
Insulation Resistance (500V d.c)	≥ 500MΩ.km

Mechanical Characteristics

TEMPERATURE RANGE	
Operation	-20°C to + 60°C
Installation	0°C to +50°C
Storage	-20°C to + 70°C

MINIMUM BEND RADII	
Installation	8 x cable diameter
Installed	4 x cable diameter

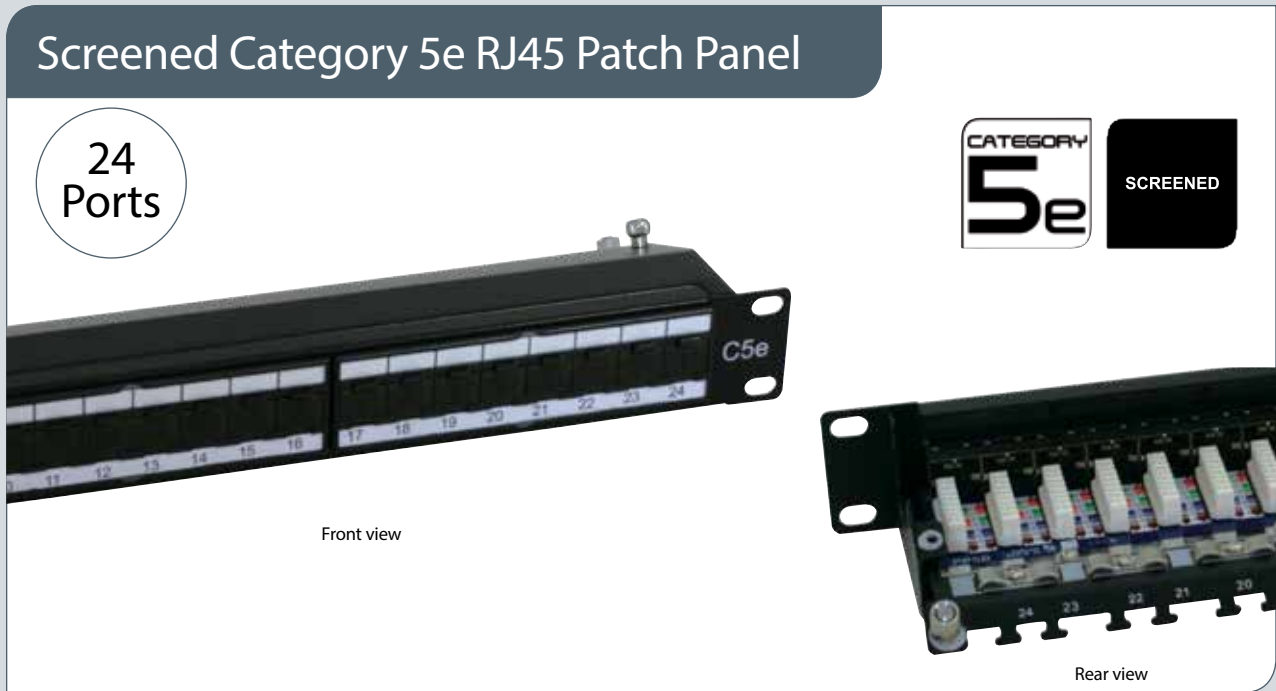
MAXIMUM TENSILE FORCE	
During Installation	100N

Transmission line performance at 20°C

FREQUENCY MHZ	ATTENUATION dB/100M	42.0NEXT dB38.3	ACR dB/100M	PSNEXT dB	ELFEXT dB/100M	PSELFEXT dB/100M	RETURN LOSS
1	2.1	65.3	63.2	62.3	63.8	60.8	20.0
4	4.0	56.3	52.3	53.3	51.8	48.8	23.1
10	6.3	50.3	44.0	47.3	43.8	40.8	24.5
16	8.0	47.3	39.3	44.2	39.7	36.7	25.0
20	9.0	45.8	46.8	42.8	37.8	34.8	25.0
31.25	11.4	42.9	31.5	39.9	33.9	30.9	23.6
62.5	16.5	38.4	21.9	35.4	27.9	24.9	21.5
100	21.3	35.3	14.0	32.3	23.8	20.8	20.1

Ordering Information

DESCRIPTION	PART NUMBER
Category 5e F/UTP LSZH 305m Box	F/UTP5E305LSZH
Category 5e F/UTP LSZH 500m Reel	F/UTP5E500LSZH



OptronicPlus Screened category 5e patch panels exceed the transmission line performance requirements of IEC and TIA for class D/category 5e systems. The panels are designed for mechanical and electrical reliability using quality materials and processes to deliver a panel solution which delivers a consistent

high level of systems performance. Our category 5e patch panels comply with the requirements of ISO/IEC 11801 (2nd Edition): 2010 and support all applications designed for class D/category 5e applications including 1000BASE-T (Gigabit Ethernet), ATM 155, 100BASE-Tx, Token Ring 100Mbs-1 and 1G FCBASE-T.

Features

- > 19" rack mountable
- > 24 ports in 1U space
- > 8 - port RJ45 modules
- > Individual port identification
- > Universal wiring blocks for easy termination
- > Right angled wiring block orientation for easier installation
- > Colour coded wiring blocks for easy cable lacing
- > Integral rear cable management
- > Durability:
 - Socket Contacts: 750 plug insertion cycles minimum
 - Wiring block: 25 termination cycles minimum
- > Earthing kit and cage nuts included as standard
- > Part of the 25 year Optronic systems warranty programme

Applications

- > Class D/category 5e standards compliant
- > Terminates 22AWG to 26AWG cables

Conformance

- > Electrically compliant beyond 100MHz
- > Supports TIA 568 A & B wiring configurations
- > REACH / SvHC compliant regulation (EC) No. 1907/2006

Ordering Information

DESCRIPTION	PART NUMBER
Screened category 5e patch panel, 24 port Black 1U	501-001

Screened Category 5e "High Density" RJ45 Patch Panel

48
Ports

CATEGORY
5e

SCREENED



Front view



Rear view

OptronicsPlus Screened category 5e "High Density" patch panels exceed the transmission line performance requirements of IEC and TIA for class D/category 5e systems. These are 'real' cabinet space saving products designed for mechanical and electrical reliability. The "High Density" panel delivers a consistent high level of systems performance whilst halving the cabinet space

required in high density installations. Each category 5e "High Density" patch panel complies with the requirements of ISO/IEC 11801 (2nd Edition): 2010 and support all applications designed for class D/category 5e applications such as 1000BASE-T (Gigabit Ethernet), ATM 155, 100BASE-Tx, Token Ring 100Mbs-1 and 1G FCBASE-T.

Features

- > 19" rack mountable
- > 48 ports in 1U space
- > 8 - port RJ45 modules
- > Individual port identification
- > Universal wiring blocks for easy termination
- > Right angled wiring block orientation for easier installation
- > Colour coded wiring blocks for easy cable lacing
- > Integral rear cable management
- > Durability:
 - Socket contacts: 750 plug insertion cycles minimum
 - Wiring block: 25 termination cycles minimum
- > Earthing kit and cage nuts included as standard
- > Part of the 25 year Optronics systems warranty programme

Applications

- > Class D/category 5e standards compliant
- > Terminates 22AWG to 26AWG cables

Conformance

- > Electrically compliant beyond 100MHz
- > Supports TIA 568 A & B wiring configurations
- > REACH / SvHC compliant regulation (EC) No. 1907/2006

Ordering Information

DESCRIPTION	PART NUMBER
Screened category 5e "HD" patch panel, 48 port, Black, 1U	501-002

Unscreened Category 5e RJ45 Patch Panel



OptronicPlus category 5e patch panels exceed the transmission line performance requirements of IEC and TIA for class D/ category 5e systems. The panels are designed for mechanical and electrical reliability using quality materials and processes to deliver a panel solution which delivers a consistent high level of

systems performance. Each category 5e patch panel complies with the requirements of ISO/IEC 11801 (2nd Edition): 2010 and support all applications designed for class D/category 5e applications including 1000BASE-T (Gigabit Ethernet), ATM 155, 100BASE-Tx, Token Ring 100Mbs-1 and 1G FCBASE-T.

Features

- > 19" rack mountable
- > 24 ports in 1U space / 48 ports in 2U space
- > 6 - port RJ45 modules
- > Individual port identification
- > Integral label feature
- > Universal wiring blocks for easy termination
- > Colour coded wiring blocks for easy cable lacing
- > Rear cable management bar
- > Durability:
 - Socket contacts: 750 plug insertion cycles minimum
 - Wiring block: 25 termination cycles minimum
- > Earthing kit and cage nuts included as standard
- > Part of the 25 year Optronic systems warranty programme

Applications

- > Class D/category 5e standards compliant
- > Terminates 22AWG to 26AWG cables

Conformance

- > Electrically compliant beyond 100MHz
- > Supports TIA 568 A & B wiring configurations
- > REACH / SvHC compliant regulation (EC) No. 1907/2006

Ordering Information

DESCRIPTION	PART NUMBER
Unscreened category 5e patch panel, 24 port, Black, 1U	500-001
Unscreened category 5e patch panel, 48 port, Black, 2U	500-002

Tool Free Screened Category 5e RJ45 Keystone Jacks



Top view

OptronicPlus category 5e tool free RJ45 keystone jacks exceed the transmission line performance requirements of IEC and TIA for class D/category 5e systems. The products have been designed for mechanical and electrical reliability, using quality materials, to deliver a jack solution that minimises the time required by the installer to complete each termination.

Each category 5e modular RJ45 keystone jacks complies with IEC 60603-7-Pt 3 (screened) and support all applications designed for class D networks as defined within ISO/IEC 11801 (2nd Edition): 2010 including 1000BASE-T (Gigabit Ethernet), ATM-155, 100BASE-Tx, Token Ring 100Mbps-1, and 1G FCBASE-T.

Features

- > Screened and unscreened versions available
- > Repeatable tool-free terminations
- > Colour coded stuffer-cap for easy cable lacing
- > Keyed stuffer-cap for reliable termination
- > Low insertion force 'clam action' assists tool free termination (LSA & 110 punch-down tools can also be used to effect termination)
- > Integral cable strain relief
- > Durability:
 - Jack contacts: 750 plug insertion cycles minimum
 - Wiring block: 25 termination cycles minimum
- > Fits all keystone style face plates and floor boxes
- > Suitable for modular patch panel installation
- > Part of the 25 year Optronic systems warranty programme

Applications

- > Class D/category 5e standards compliant
- > Terminates 22AWG to 26AWG cables

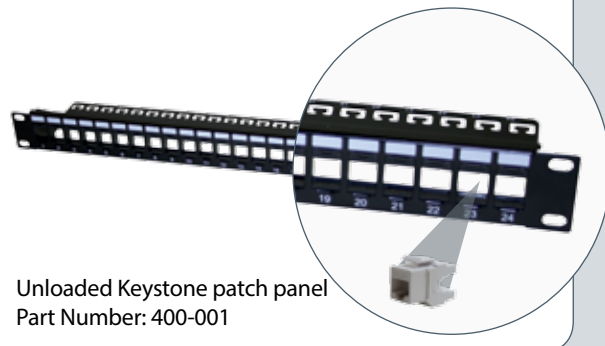
Conformance

- > Electrically compliant beyond 100MHz
- > Supports TIA 568 A & B wiring configurations
- > REACH / SvHC compliant regulation (EC) No. 1907/2006

Ordering Information

DESCRIPTION	PART NUMBER
Screened Cat5e Tool Free keystone jack, White	501-101
Unloaded Keystone patch panel	400-001

Unloaded Keystone Patch Panel for use with Tool Free Screened category 5e RJ45 Keystone Jacks



Unloaded Keystone patch panel
Part Number: 400-001

Tool Free Unscreened Category 5e RJ45 Keystone Jacks



Top view

OptronicPlus category 5e Tool Free RJ45 keystone jacks exceed the transmission line performance requirements of IEC and TIA for class D/category 5e systems. The products have been designed for mechanical and electrical reliability, using quality materials, to deliver a jack solution that minimises the time required by the installer to complete each termination.

Each category 5e Tool Free RJ45 keystone jack complies with IEC 60603-7-Pt 2 (unscreened) and support all applications designed for class D networks as defined within ISO/IEC 11801 (2nd Edition): 2010 including 1000BASE-T (Gigabit Ethernet), ATM-155, 100BASE-Tx, Token Ring 100Mbs-1, and 1G FCBASE-T.

Features

- > Screened and unscreened versions available
- > Repeatable tool-free terminations
- > Colour coded stuffer-cap for easy cable lacing
- > Keyed stuffer-cap for reliable termination
- > Low insertion force 'clam action' assists tool free termination (LSA & 110 punch-down tools can also be used to effect termination)
- > Integral cable strain relief
- > Colour coded wiring blocks for easy cable lacing
- > Durability:
 - Jack contacts: 750 plug insertion cycles minimum
 - Wiring block: 25 termination cycles minimum
- > Fits all keystone face plates and floor boxes
- > Suitable for modular patch panel installation
- > Part of the 25 year OptronicPlus systems warranty programme

Applications

- > Class D/category 5e standards compliant
- > Terminates 22AWG to 26AWG cables

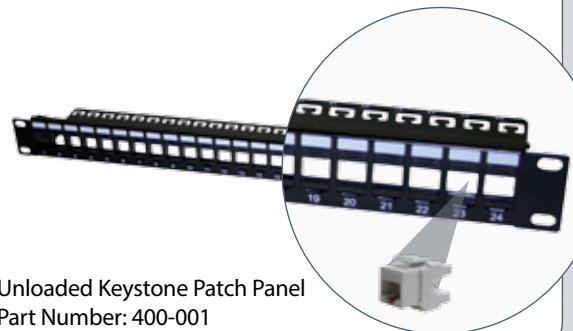
Conformance

- > Electrically compliant beyond 100MHz
- > Supports TIA 568 A & B wiring configurations
- > REACH / SvHC compliant regulation (EC) No. 1907/2006

Ordering Information

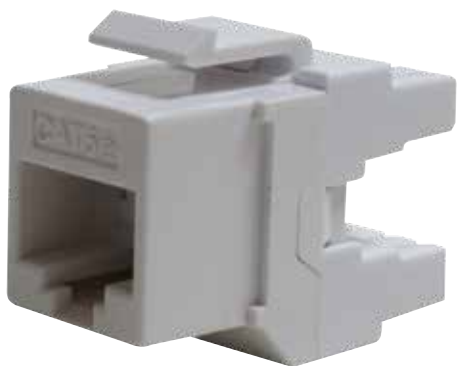
DESCRIPTION	PART NUMBER
Unscreened Cat5e Tool Free keystone jack - Black	500-101
Unscreened Cat5e Tool Free keystone jack - White	500-102
Unloaded Keystone patch panel	400-001

Unloaded Keystone Patch Panel for use with Tool Free Screened category 5e RJ45 Keystone Jacks



Unloaded Keystone Patch Panel
Part Number: 400-001

Unscreened Category 5e RJ45 Keystone Jacks



Top view

OptronicPlus category 5e RJ45 keystone jacks exceed the transmission line performance requirements of IEC and TIA for class D/category 5e systems. The jacks have been designed for mechanical and electrical reliability, using quality materials, to deliver a jack solution that optimises the termination process through the use of a universal wiring block. Each category 5e

RJ45 keystone jack complies with IEC 60603-7-Pt 2 (unscreened) and support all applications designed for class D networks as defined within ISO/IEC 11801 (2nd Edition): 2010 including 100BASE-T (Gigabit Ethernet), ATM-155, 100BASE-Tx, Token Ring 100Mbs-1, and 1G FCBASE-T.

Features

- > Universal wiring block accommodates both 110 and LSA tools
- > Colour coded wiring blocks assist termination
- > Durability:
 - Jack contacts: 750 plug insertion cycles minimum
 - Wiring block: 25 termination cycles minimum
- > Fits all keystone style face plates and floor boxes
- > Suitable for modular patch panel installation
- > Part of the 25 year Optronic systems warranty programme

Applications

- > Class D/category 5e standards compliant

Conformance

- > Electrically compliant beyond 100MHz
- > Supports TIA 568 A & B wiring configurations
- > REACH / SvHC compliant regulation (EC) No. 1907/2006

Ordering Information

DESCRIPTION	PART NUMBER
Unscreened category 5e keystone jack - Black	500-103
Unscreened category 5e keystone jack - White	500-104
Unloaded Keystone patch panel	400-001

Unscreened Category 5e Low Profile Shuttered Modules



OptronicPlus category 5e low profile shuttered RJ45 modules exceed the transmission line performance requirements of IEC and TIA for class D/category 5e systems. These modules have been designed for mechanical and electrical reliability, using quality materials, to deliver a jack solution that is optimised for shallow back boxes. Each category 5e low profile shuttered

RJ45 module complies with IEC 60603-7-Pt 2 and support all applications designed for class D networks as defined within ISO/IEC 11801 (2nd Edition): 2010 including 1000BASE-T (Gigabit Ethernet), ATM-155, 100BASE-Tx, Token Ring 100Mbps-1 and 1G FCBASE-T.

Features

- > Euro-Mod and LJ6C versions
- > Integral shuttered facia
- > Integral label window
- > Universal, colour coded wiring block for easy termination
- > Integral cable strain relief
- > Durability:
 - Jack contacts: 750 plug insertion cycles minimum
 - Wiring block: 25 termination cycles minimum
- > Part of the 25 year Optronic systems warranty programme

Applications

- > Class D/category 5e standards compliant

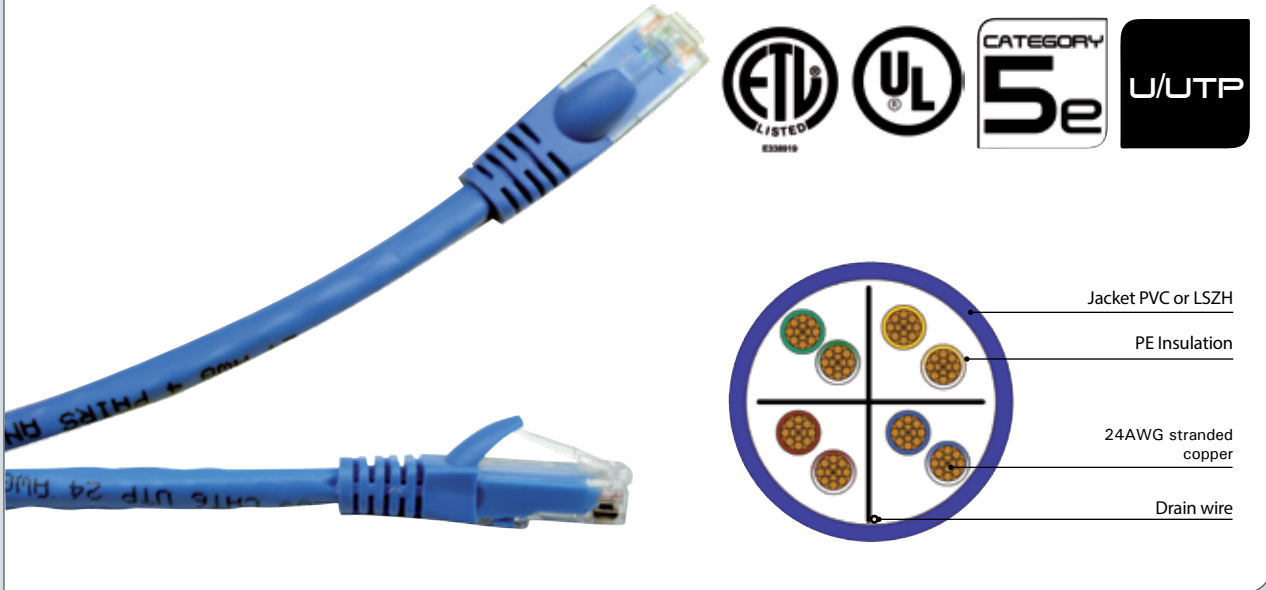
Conformance

- > Electrically compliant through 100MHz
- > Supports TIA 568 A & B wiring configurations
- > REACH / SvHC compliant regulation (EC) No. 1907/2006

Ordering Information

DESCRIPTION	PART NUMBER
Unscreened LJ6C category 5e Low Profile Shuttered Module 38.5mm x 25mm White	500-301
Unscreened category 5e Low Profile Shuttered Module 50mm x 25mm White	500-401

U/UTP Category 5e Patch Cords



OptronicsPlus category 5e Unscreened patch cords exceed the transmission line performance requirements of IEC and TIA for class D/category 5e systems. The patch cords are designed for mechanical and electrical reliability, using quality materials and processes, to deliver a solution which provides a consistent high level of systems performance whilst incorporating design features that allow a "one style fits all" cord application. The low profile moulded boot and snag free latching allows the patch

cords to be deployed within even the most densely populated network installations, utilising the latest blade server technology. Each category 5e unscreened patch cord is manufactured and tested in accordance with IEC 61935-2 and comply with the requirements of ISO/IEC 11801 (2nd Edition): 2010 and support all applications designed for class D/category 5e applications including 1000BASE-T (Gigabit Ethernet), ATM 155, 100BASE-Tx, Token Ring 100Mbs-1 and 1G FCBASE-T.

Features

- > Electrically compliant beyond 100MHz
 - > Low Smoke Zero Halogen sheathed cable / PVC sheathed cable
 - > Low profile moulded strain relief boot for use with blade servers
 - > Integral anti-snag latch as standard
 - > 8 standard colours
 - > 7 standard lengths (1m, 2m, 3m, 5m, 10m, 15m, & 20m)
 - > Other lengths and colours available upon request*
 - > Individually bagged with traceability information
 - > Part of the 25 year Optronics systems warranty programme
- * Subject to MOQ

Applications

- > Class D/category 5e standards compliant

Conformance

- > RoHS compliant 2002/95/EC
- > REACH / SvHC compliant regulation (EC) No. 1907/2006

Technical Specifications

CONSTRUCTION		VALUE
Conductors	AWG	24
	Size (mm)	7/0.20 +/- 0.008
	Material	Bare Copper
Insulators	Diameter (mm)	0.98 +/- 0.05
	Material	Polyolefin
Jacket	External O.D.	6.0 +/- 0.20
	Thickness (mm)	0.5
	Material	PVC/LSZH

U/UTP Category 5e Patch Cords

PVC

	PART NUMBER	METRE
GREY	510-101	1
	510-102	2
	510-103	3
	510-105	5
	510-110	10
	510-115	15
RED	510-120	20
	510-201	1
	510-202	2
	510-203	3
	510-205	5
	510-210	10
BLUE	510-215	15
	510-220	20
	510-301	1
	510-302	2
	510-303	3
	510-305	5
510-310	10	
510-315	15	
510-320	20	

	PART NUMBER	METRE
YELLOW	510-401	1
	510-402	2
	510-403	3
	510-405	5
	510-410	10
	510-415	15
GREEN	510-520	20
	510-501	1
	510-502	2
	510-503	3
	510-505	5
	510-510	10
WHITE*	510-515	15
	510-520	20
	510-601	1
	510-602	2
	510-603	3
	510-605	5
510-610	10	
510-615	15	
510-620	20	

	PART NUMBER	METRE
BLACK*	510-701	1
	510-702	2
	510-703	3
	510-705	5
	510-710	10
	510-715	15
ORANGE*	510-720	20
	510-701	1
	510-702	2
	510-703	3
	510-705	5
	510-710	10
510-715	15	
510-720	20	

*White, Orange and Black may be subject to minimum order quantities

LSZH

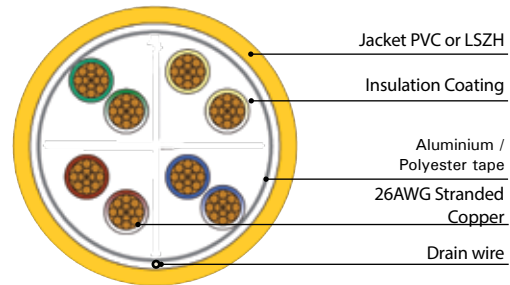
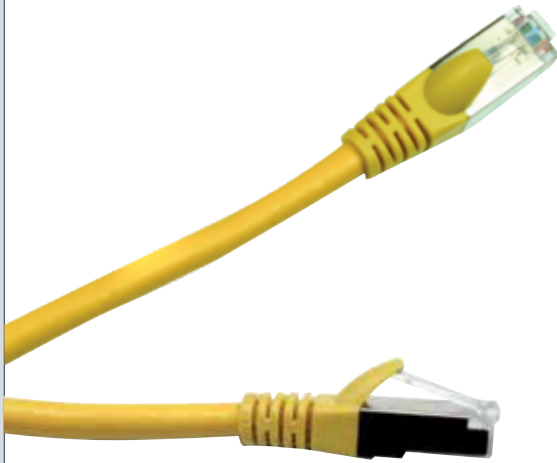
	PART NUMBER	METRE
GREY	520-101	1
	520-102	2
	520-103	3
	520-105	5
	520-110	10
	520-115	15
RED	520-120	20
	520-201	1
	520-202	2
	520-203	3
	520-205	5
	520-210	10
BLUE	520-215	15
	520-220	20
	520-301	1
	520-302	2
	520-303	3
	520-305	5
520-310	10	
520-315	15	
520-320	20	

	PART NUMBER	METRE
YELLOW	520-401	1
	520-402	2
	520-403	3
	520-405	5
	520-410	10
	520-415	15
GREEN	520-420	20
	520-501	1
	520-502	2
	520-503	3
	520-505	5
	520-510	10
WHITE*	520-515	15
	520-520	20
	520-601	1
	520-602	2
	520-603	3
	520-605	5
520-610	10	
520-615	15	
520-620	20	

	PART NUMBER	METRE
BLACK*	520-701	1
	520-702	2
	520-703	3
	520-705	5
	520-710	10
	520-715	15
ORANGE*	520-720	20
	520-801	1
	520-802	2
	520-803	3
	520-805	5
	520-810	10
520-815	15	
520-820	20	

*White, Orange and Black may be subject to minimum order quantities

F/UTP Category 5e Patch Cords



OptronicPlus category 5e Screened patch cords exceed the transmission line performance requirements of IEC and TIA for class D/category 5e systems. The patch cords are designed for mechanical and electrical reliability, using quality materials and processes, to deliver a solution which provides a consistent high level of systems performance whilst incorporating design features that allow a "one style fits all" cord application. The low profile moulded boot and snag free latching allows the patch

cords to be deployed within even the most densely populated network installations, utilising the latest blade server technology. Each category 5e Screened patch cord is manufactured and tested in accordance with IEC 61935-2 and comply with the requirements of ISO/IEC 11801 (2nd Edition): 2010 and support all applications designed for class D/category 5e applications including 1000BASE-T (Gigabit Ethernet), ATM 155, 100BASE-Tx, Token Ring 100Mbs-1 and 1G FCBASE-T.

Features

- > Electrically compliant beyond 100MHz
- > Low Smoke Zero Halogen sheathed cable / PVC sheathed cable
- > Low profile moulded strain relief boot for use with blade servers
- > Screened plug
- > Integral anti-snag latch as standard
- > 8 standard colours
- > 7 standard lengths (1m, 2m, 3m, 5m, 10m, 15m, & 20m)
- > Other lengths and colours available upon request*
- > Individually bagged with traceability information
- > Part of the 25 year Optronic systems warranty programme

* Subject to MOQ

Applications

- > Class D/category 5e standards compliant

Conformance

- > RoHS compliant 2002/95/EC
- > REACH / SvHC compliant regulation (EC) No. 1907/2006

Technical Specifications

CONSTRUCTION		VALUE
Conductors	AWG	26
	Size (mm)	0.915 +/- 0.00
	Material	Bare Copper
Insulators	Diameter (mm)	0.97 +/- 0.05
	Material	Polyolefin
Jacket	External O.D.	6.0 +/- 0.20
	Thickness (mm)	0.5
	Material	PVC/LSZH

F/UTP Category 5e Patch Cords

PVC

	PART NUMBER	METRE
GREY	530-101	1
	530-102	2
	530-103	3
	530-105	5
	530-110	10
	530-115	15
	530-120	20
	530-201	1
	530-202	2
	530-203	3
RED	530-205	5
	530-210	10
	530-215	15
	530-220	20
	530-301	1
BLUE	530-302	2
	530-303	3
	530-305	5
	530-310	10
	530-315	15
	530-320	20

	PART NUMBER	METRE
YELLOW	530-401	1
	530-402	2
	530-403	3
	530-405	5
	530-410	10
	530-415	15
	530-520	20
	530-501	1
	530-502	2
	530-503	3
GREEN	530-505	5
	530-510	10
	530-515	15
	530-520	20
	530-601	1
WHITE*	530-602	2
	530-603	3
	530-605	5
	530-610	10
	530-615	15
	530-620	20

	PART NUMBER	METRE
BLACK*	530-701	1
	530-702	2
	530-703	3
	530-705	5
	530-710	10
	530-715	15
	530-720	20
	530-801	1
	530-802	2
	530-803	3
ORANGE*	530-805	5
	530-810	10
	530-815	15
	530-820	20

*White, Orange and Black may be subject to minimum order quantities

LSZH

	PART NUMBER	METRE
GREY	540-101	1
	540-102	2
	540-103	3
	540-105	5
	540-110	10
	540-115	15
	540-120	20
	540-201	1
	540-202	2
	540-203	3
RED	540-205	5
	540-210	10
	540-215	15
	540-220	20
	540-301	1
BLUE	540-302	2
	540-303	3
	540-305	5
	540-310	10
	540-315	15
	540-320	20

	PART NUMBER	METRE
YELLOW	540-401	1
	540-402	2
	540-403	3
	540-405	5
	540-410	10
	540-415	15
	540-420	20
	540-501	1
	540-502	2
	540-503	3
GREEN	540-505	5
	540-510	10
	540-515	15
	540-520	20
	540-601	1
WHITE*	540-602	2
	540-603	3
	540-605	5
	540-610	10
	540-615	15
	540-620	20

	PART NUMBER	METRE
BLACK*	540-701	1
	540-702	2
	540-703	3
	540-705	5
	540-710	10
	540-715	15
	540-720	20
	540-801	1
	540-802	2
	540-803	3
ORANGE*	540-805	5
	540-810	10
	540-815	15
	540-820	20

*White, Orange and Black may be subject to minimum order quantities

OptronicPlus
Copper Cabling System

Faceplates & Accessories



Single Gang Bevelled



UK style single gang bevelled faceplate. Suitable for installing 1 to 2 ports.
Dimensions: 86 x 86mm

DESCRIPTION	PART NUMBER
Single Gang Faceplate Bevelled 1-2 port	100-007

Double Gang Bevelled



UK style double gang bevelled faceplate. Suitable for installing 1 to 4 ports.
Dimensions: 86 x 146mm

DESCRIPTION	PART NUMBER
Double Gang Faceplate Bevelled 1-4 port	100-008

Single Gang Flat



UK style single gang flat faceplate. Suitable for installing 1 to 2 ports.
Dimensions: 86 x 86mm

DESCRIPTION	PART NUMBER
Single Gang Faceplate Flat 1-2 port	100-001

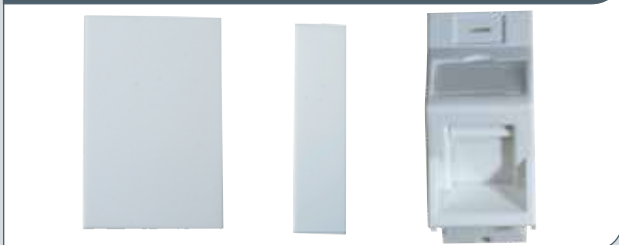
Double Gang Flat



UK style double gang flat faceplate. Suitable for installing 1 to 4 ports.
Dimensions: 86 x 146mm

DESCRIPTION	PART NUMBER
Double Gang Faceplate Flat 1-4 port	100-002

Blanks



Blanks & unloaded angled module. Fits with any UK style faceplates.

DESCRIPTION	PART NUMBER
50 x 25mm Blank	100-009
50 x 12.5mm Blank	100-010
50 x 25mm Angled module	100-006

LJ6C Single Port Flat



LJ6C single port flat faceplate. Suitable for installing 1 LJ6C module.
Dimensions: 86 x 86mm

DESCRIPTION	PART NUMBER
LJ6C Flat Single Gang 1 Port Faceplate	100-003

LJ6C Double Port Flat



LJ6C double port flat faceplate. Suitable for installing 2 LJ6C module.
Dimensions: 86 x 86mm

DESCRIPTION	PART NUMBER
LJ6C Flat Double Gang 1-2 Port Faceplate	100-004

LJ6C Angled Module



Angled Module. Fits with any LJ6C style faceplates.

DESCRIPTION	PART NUMBER
LJ6C angled module 38.5 x 25mm	100-005

European Angled Insert



European style curved faceplate. Comes with unloaded modules in 1 or 2 port versions.

DESCRIPTION	PART NUMBER
Optronics Angled Insert 45 x 45 Single Port	200-006

European Faceplate Bevelled



Bevelled faceplate. Suitable for installing 1 to 2 ports.

DESCRIPTION	PART NUMBER
Bevelled 80 x 80mm 1-2 Port Faceplate	100-011

Other catalogues available for download at
www.optronicsnet.com




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